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USA SCIENTIFIC®

Precise Solutions® for Research

USA SCIENTIFIC®

USA Scientific manufactures and distributes high quality laboratory plastics, equipment, and accessories. We have been a trusted laboratory partner since 1982. In 1998 we introduced TipOne®, an easy-to-load pipet tip system that saves space and plastic and provides exceptional fit, delivery, and sample protection. See more about TipOne inside, along with information about our exclusive ErgoOne® adjustable volume pipettes, CytoOne® Cell Culture Performance Ware™, and more.

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2013/2014

New products are featured throughout this catalog. A few of these are shown below.

TipOne® 300 µl filter tips

New filter tips hold a full 300 µl. Great for use with multichannel pipettes. Also available without filters.

See pages A8-A19.

Eppendorf Xplorer® Electronic Pipettes

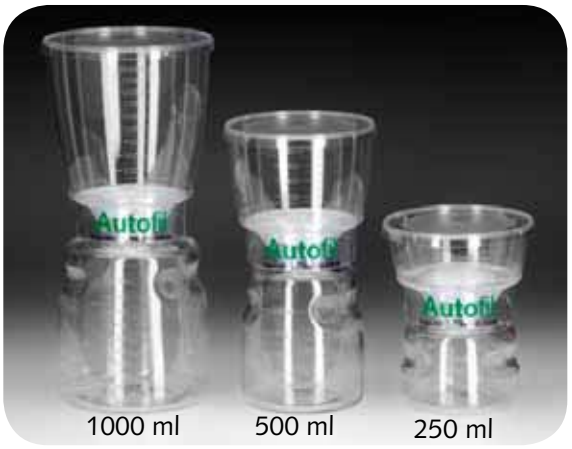
Simple to program and comfortable to use.

See page A36.

Cobalt® Ultra Nitrile Exam Gloves

Comfortable gloves feature strong thin film technology.

See page E9.



Autofil™ Bottle Top Filtration

Innovative design and easier handling streamlines vacuum filtration.

See pages G12-G13.

A

TIPS, PIPETTORS, AND PIPETS

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TipOne®
PIPET TIPS
FILTER TIPS
DISPENSERS
PIPETTES
AUTOMATION
REFILL WAFERS
ErgoOne®
SEROLOGICAL PIPETS
STACKS
GEL TIPS
PIPET CONTROLLERS

USA SCIENTIFIC®

TipOne®

The TipOne System

TipOne® is available in hinged racks, refill wafers, sturdy stacks, sterile racks, and zip top plastic bags with tamper evident strips.

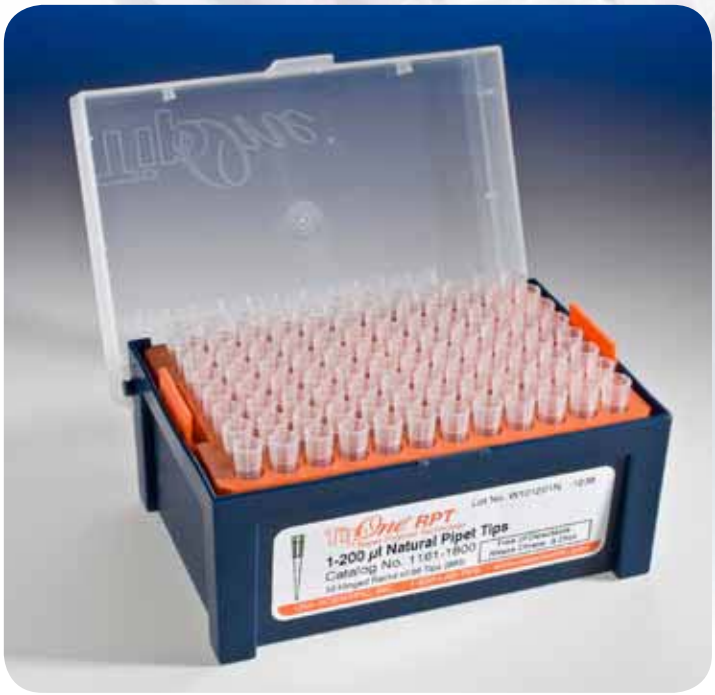
Original TipOne and ultra low retention TipOne RPT tips are available with or without aerosol barrier filters. No potentially bioactive processing additives are used during production. TipOne and TipOne RPT are made in the USA. TipOne products are certified free of detectable RNase, DNase and DNA. Sterile tips are also certified free of detectable pyrogens.

MADE IN USA

TipOne® RPT

Repel-Polymer Technology

Ultra Low Retention Pipet Tips



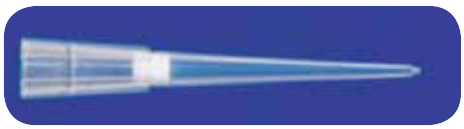
TipOne RPT ultra low retention technology refines polypropylene tip surfaces at a molecular level, improving the flow dynamics of viscous liquids and other difficult samples.

While original TipOne pipet tips are recommended for almost all laboratory procedures, there are applications where it can be beneficial to use TipOne RPT. Examples include viscous liquids, selected nucleic acids and proteins, and solutions with Triton-X, glycerin, or other components that require an extremely low surface energy for complete sample release. TipOne RPT will also ensure optimum delivery of aqueous and other common laboratory solutions.

In contrast to other technologies that use siliconized or fluoro-coated surfaces, TipOne RPT tips offer exceptional delivery without the risk of interaction with additives or treatments, even after sterilization or autoclaving. MADE IN USA

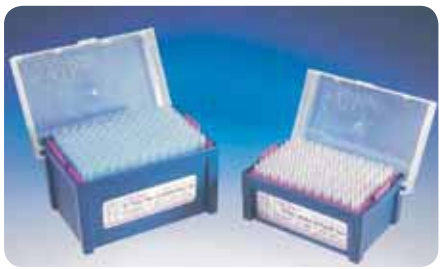
TipOne®

The TipOne System



The TipOne® system starts with the highest quality tip, engineered to fit most popular pipettors. An extended sealing zone conforms to the pipettor tip cone to create an excellent seal, even with gentle pressure. As a result, tip ejection forces are lowered and you experience less muscle stress. TipOne also features smooth inner surfaces for reduced sample retention and a uniform, flash-free tip orifice that prevents sample hold-up.

See page A4 for quality control and production information.



TipOne features a sturdy, reusable rack that resists tipping during use. The hinged lid protects the tips while allowing fast and easy access. The latch keeps the box closed and also provides a second, open position for effective autoclaving.

See pages A6-A13 for TipOne filter tips and tips in racks.

After you have used all the tips in a rack, simply remove the empty wafer and fill the rack with a new tip wafer from one of the refill packages. Compared to using a new rack of tips, you'll save storage space, packaging waste, and research funds.

See pages A14-A15 for TipOne in refill wafers.

The 96-tip wafer is the core of the TipOne system. It is a fundamental part of the racks, refills, and stacks. The flex-free wafers have recessed tip compartments that stabilize the tips for easier application, especially with multichannel pipets.

Orange wafers indicate ultra low retention TipOne RPT tips.

If you need to keep a large number of tips nearby, you may like the convenience of stacked tips. A stack of 960 tips uses 58% less space than ten individual tip racks.

See page A17 for TipOne in stacks.

If your lab prefers to buy bulk tips, you'll find that reusing TipOne racks and wafers is economical. All parts are designed for repeated use and will withstand multiple autoclaving cycles.

See pages A18-A19 for bulk TipOne in resealable bags.

Prices and products subject to change without notice. See www.usascientific.com for current information.

TipOne®

The TipOne System

TipOne production runs 24/7.

Fully automated tip production and filter insertion.

TipOne Production

The manufacturing of TipOne® is highly automated and controlled. Purity and precision are essential throughout the entire process. Production starts with pre-qualified, 100% virgin polypropylene. The molding machines and packaging equipment are located in a clean room supplied with HEPA filtered positive air flow. All racks, lids, wafers, and tips are made in this environment. Machine operators and packers wear protective gear at all times.

Finished tips are released from the molds and robotically inserted into the racks within seconds. No human handling is required or allowed. Filters are set in place automatically while the tips are still in the molding station. Next, the hinged lids are mechanically closed over the tips, protecting them before the final packaging steps. Finally, all products are labeled with lot numbers that track the complete manufacturing process. MADE IN USA

The tip seal is tested to ensure there is no air leakage that might cause incomplete aspiration or inaccurate results.

TipOne Quality Assurance

TipOne pipet tips are manufactured under strict conditions and are required to pass several quality control procedures.

All TipOne products are lot tested for consistent liquid delivery and complete and easy sealing. Tips are examined under magnification for coaxiality, flash-free edges, complete formation, and the absence of imperfections such as scratches. Tips are also tested and certified to be free of any detectable RNase, DNase, or DNA. Sterile tips are also certified pyrogen free. TipOne is available in hinged racks, refill wafers, sturdy stacks, sterile racks, and zip top plastic bags with tamper evident strips. The tips are available with or without aerosol barrier filters.

The TipOne System

Minimizing the environmental impact of pipet tips.

To reduce the amount of plastic needed for racked pipet tips, USA Scientific developed the TipOne® Pipet Tip System. TipOne reusable racks loaded with refill wafers save over 65% of the plastic required for racked tips alone. We continue to refine TipOne and our manufacturing process to make that savings even greater. In addition to racked tips, we offer stacked pipet tips, which also reduce plastic packaging volumes.

All TipOne packaging is designed to balance the need to protect the purity and cleanliness of the tips with the desire to reduce packaging waste. We don't use cardboard, paper, or other uncharacterized fibrous materials as tip containers. All materials that could come in contact with the tips are created to use as little plastic as necessary while meeting functional needs and providing full product protection during transportation, storage, and laboratory use.

Tip rack recycling has been an important USA Scientific service since the early 1990's. All TipOne packaging components can be recycled; see below for information on individual items.

TipOne is manufactured in the USA with state of the art equipment for optimum energy efficiency and minimal waste. Our sterilization process uses high energy electrons and does not require any hazardous or radioactive materials.

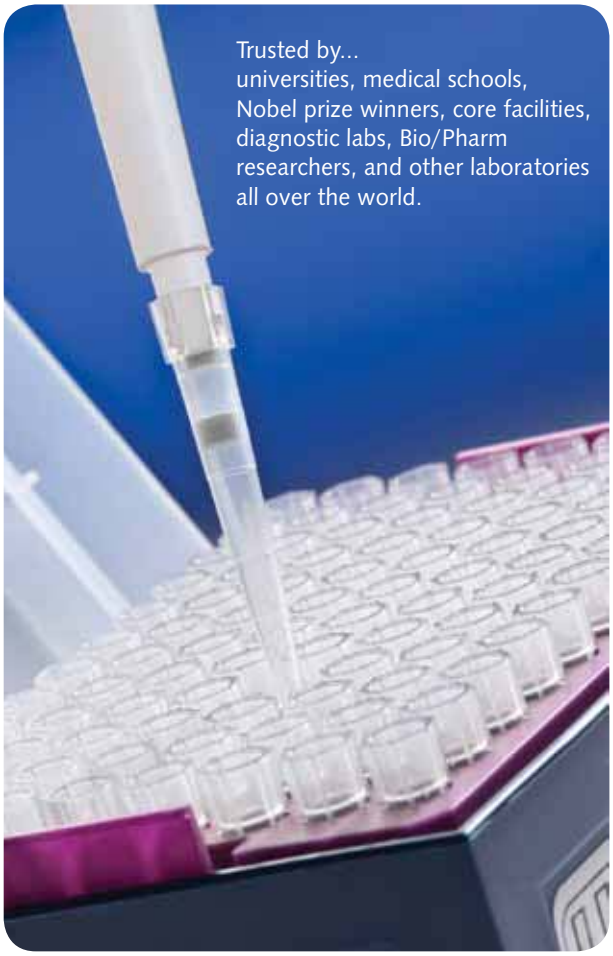
Saving laboratory plastic since 1998.

Recycling TipOne® products

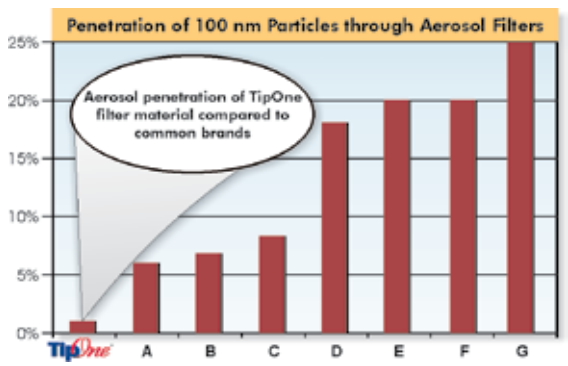
All TipOne components can be recycled according to the following codes. Using TipOne refillable racks and reload wafers also helps reduce initial laboratory plastic use.

- Pipet tip racks, wafers, lids, and stack components are polypropylene code #5. A recycling symbol appears on each part.
- Refill wafer containers are PETG code #1 and can be recycled with many soft drink bottles.
- The shrink wrap on refills, stacks, and sterilized racks is olefin code #7 and can be recycled with "other" recycling plastics.
- Cardboard TipOne boxes contain recycled chipboard and can be recycled again.
- Where possible, our sales reps collect used TipOne racks and wafers and take them to recycling centers. To contact your local rep, call 800-522-8477 or email info@usascientific.com.

Prices and products subject to change without notice. See www.usascientific.com for current information.



MADE IN USA



Laboratory tests with 100 nm particles prove TipOne ultra high density filters provide greater protection than competing brands, blocking >99% of particles. With today's sensitive procedures, can you risk 6-25% of aerosols reaching your sample? See more information at www.usascientific.com/filter-tip-study.

TipOne®

Ultra High Density Filter Tips

Eliminate harmful aerosol transfers between samples with TipOne® and TipOne RPT filter tips. Our ultra high density polyethylene (UHDPE) filters are proven to block >99% of aerosol contaminants.

TipOne pipet tips are made from pure virgin polypropylene. No clarifiers or processing additives (slip agents, biocides, antistatic agents, etc.) are used. Our ultra low retention filter tips are made without silicone or other coatings. With TipOne, your results will not be compromised by potentially bioactive ingredients.

TipOne is manufactured in the USA using fully automated, state of the art production equipment housed in a positive pressure, HEPA filtered environment. All filter tips are sterilized and certified free of detectable RNase, DNase, DNA, and pyrogens.

TipOne filters trap aerosols and airborne contaminants, greatly reducing the risk of sample carry-over and cross contamination. Laboratory tests with 100 nm particles prove our ultra high density filters provide greater protection than competing brands. (See the comparison chart.) All tips are natural virgin polypropylene and made in the USA.

- UHDPE barrier filters block >99% of aerosol contaminants
- Tips fit securely with low application force
- Convenient hinged racks have an easy to open, tamper evident wrap
- Empty racks can be refilled with other TipOne tips
- Racks, wafers, and lids are recyclable polypropylene and are marked with a #5 symbol
- Each rack carries a fully traceable lot number
- Pure hydrophobic filters have no additives that could interfere with samples
- Certified free of detectable RNase, DNase, DNA, and pyrogens
- Sterilized

Protect Your Research

Pipetting generates aerosols that can be transferred from one sample to another. TipOne can help you avoid contamination and the subsequent loss of time or rare samples. Filter tips can also keep pipettor tip cones free from droplet contamination and are essential for experiments or tests that use biohazards.

TipOne® Ultra High Density Filter Tips

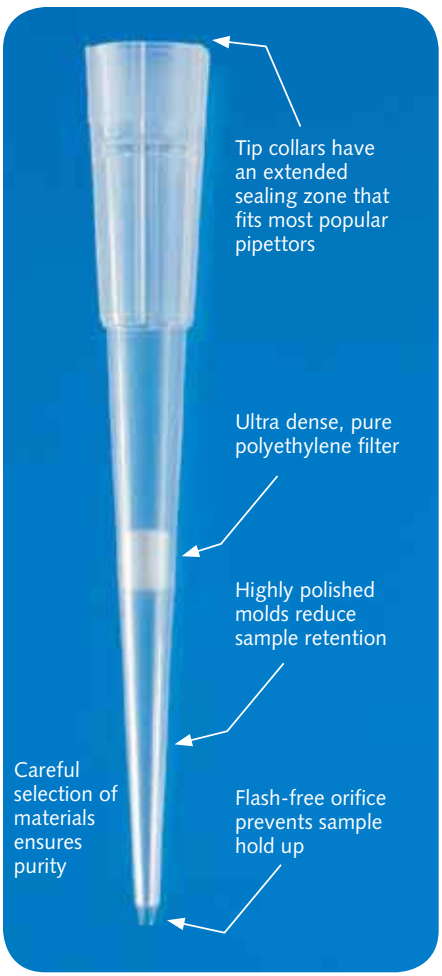
Choose TipOne® filter tips for accurate delivery and exceptional fit on a wide variety of pipettes. Original and ultra low retention tips are available in a variety of volumes.

TipOne filter tips are supplied in convenient hinged racks that help avoid airborne contamination of the tips during use. Each rack is individually sealed and has an easy open tear strip. The high quality polypropylene racks are reusable and can be refilled with other TipOne tip wafers to save both money and plastic.

TipOne tip wafers are reinforced to resist bending during tip application. They provide flex-free support for reliable tip seating with either single or multichannel pipettes. Recessed tip compartments reduce tip movement for easier tip application.

Each rack is labeled with the filter tip volume and lot number.

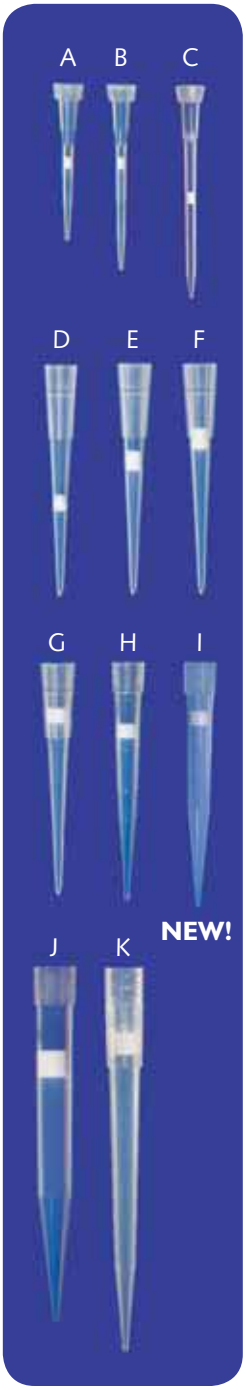
1. Convenient hinged lid reduces contamination
2. Flex-free wafers with recessed tip compartments for easy, reliable tip seating
3. High quality rack resists tipping and accepts TipOne non-filter tip refill wafers



Tamper evident seals on TipOne filter tip racks are easy to grasp while wearing gloves.

Recessed tip compartments reduce movement for easier tip application.

TipOne® Ultra High Density Filter Tips



Eliminate harmful aerosol transfers between samples with TipOne® flter tips. Our ultra high density polyethylene (UHDPE) filters are proven to block >99% of aerosol contaminants.

TipOne pipet tips are made from pure virgin polypropylene. No clarifiers or processing additives (slip agents, biocides, antistatic agents, etc.) are used. With TipOne, your results will not be compromised by potentially bioactive ingredients.

TipOne is manufactured in the USA using fully automated, state of the art production equipment housed in a positive pressure, HEPA filtered environment. All filter tips are sterilized and certified free of detectable RNase, DNase, DNA, and pyrogens.

All filter tips are natural color. See pages A6-A7 for additional information. Ten sterile racks of 96 tips (960) per pack. MADE IN USA

	DESCRIPTION	CATALOG NO.	PRICE PER PACK 1-9	10+
A	10 µl graduated filter tip	1121-3810	$79.75	$72.00
B	10 µl elongated graduated filter tip	1120-3810	$79.75	$72.00
C	0.5-10/20 µl filter tip	1121-4810	$79.75	$72.00
D	20 µl beveled filter tip	1120-1810	$79.75	$72.00
E	50 µl beveled filter tip	1120-2810	$79.75	$72.00
F	100 µl beveled filter tip	1120-1840	$79.75	$72.00
G	155 µl beveled filter tip	1124-5810	$79.75	$72.00
H	200 µl graduated filter tip	1120-8810	$79.75	$72.00
I	300 µl graduated filter tip **NEW**	1120-9810	$82.25	$74.25
J	1000 µl filter tip	1126-7810	$96.50	$86.50
K	1000 µl XL graduated filter tip	1122-1830	$96.50	$86.50

TipOne® Filter Tip Graduations

Filter Tip	Graduations
10 µl	2.5 and 10 µl
10 µl elongated	2, 5, and 10 µl
200 µl	50, 100, and 200 µl
300 µl	100, 200, and 300 µl
1000 µl XL	100, 250, and 500 µl

Graduations represent standard laboratory conditions for aqueous solutions. Results may vary depending upon viscosity and temperature.

10 µl (A and B) tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
0.5-10/20 µl (C) tips fit ErgoOne®, Transferpette®, Eppendorf® 0.5-10 µl, Nichiryo, and Oxford Benchmate® ultra micro pipettors. 0.5-20 µl tips will hold up to 20 µl when used with the 7100-0221 ErgoOne® ultra micro tip cone.
20, 50, 100, 155, 200, 300, and 1000 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.

TipOne® RPT
Repel-Polymer Technology

Ultra Low Retention Filter Tips

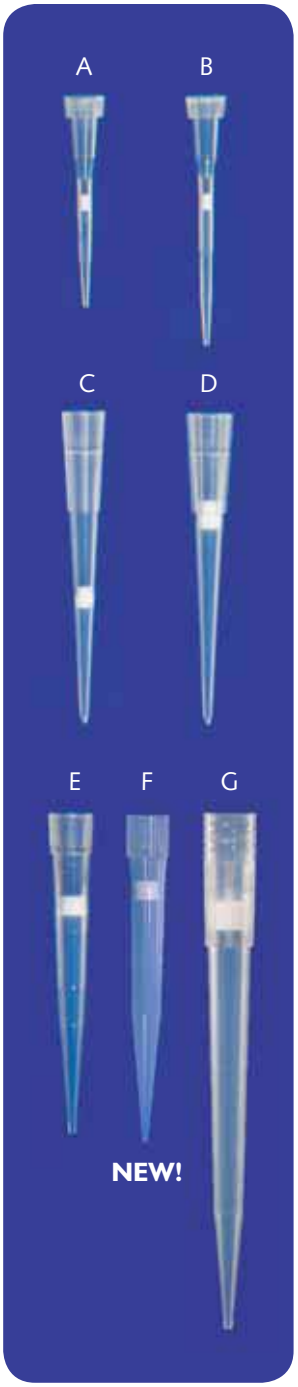
Improve the transfer of difficult samples with ultra low retention filter tips. TipOne® RPT ultra low retention technology refines polypropylene tip surfaces, improving the flow dynamics of viscous, sticky, or other challenging liquids.

TipOne RPT ultra high density polyethylene (UHDPE) filters are proven to block >99% of aerosol contaminants. TipOne RPT pipet tips are made from pure virgin polypropylene. No clarifiers, processing additives (slip agents, biocides, antistatic agents, etc.), silicone, or coatings are used. With TipOne, your results will not be compromised by potentially bioactive ingredients.

TipOne is manufactured in the USA using fully automated, state of the art production equipment housed in a positive pressure, HEPA filtered environment. All filter tips are sterilized and certified free of detectable RNase, DNase, DNA, and pyrogens. MADE IN USA

See pages A6-A7 for additional information. Ten sterile racks of 96 tips (960) per pack.

			PRICE PER PACK	
	DESCRIPTION	CATALOG NO.	1-9	10+
A	10 µl graduated filter tip	1181-3810	$87.75	$79.50
B	10 µl elongated graduated filter tip	1180-3810	$87.75	$79.50
C	20 µl beveled filter tip	1180-1810	$87.75	$79.50
D	100 µl beveled filter tip	1180-1840	$87.75	$79.50
E	200 µl graduated filter tip	1180-8810	$87.75	$79.50
F	300 µl graduated filter tip **NEW**	1180-9810	$92.50	$84.00
G	1000 µl XL graduated filter tip	1182-1830	$106.25	$95.50



Sterility Assurance for TipOne Filter Tips

USA Scientific uses Beta irradiation to sterilize TipOne and TipOne RPT filter tips in accordance with ANSI/AAMI/ISO recommended guidelines. Irradiation using high energy electrons (electron beam) delivers the entire dose to the product in seconds, not hours. This can reduce oxidative damage to polypropylene and polyethylene as compared to Gamma irradiation procedures. The electron beam process provides an environmentally sound sterilization option. Standard electricity is used, and the need to transport hazardous or radioactive materials is eliminated.

NEW!

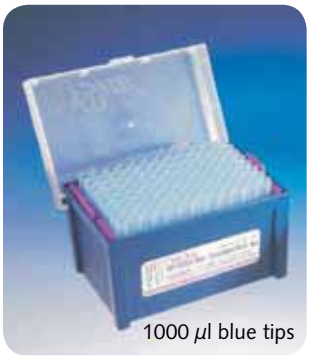
Filter tips 1120-9810 and 1180-9810 hold a full 300 µl. Great for use with 300 µl multichannel pipettes.

10 µl (A and B) tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
20, 100, 200, 300, and 1000 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.

Prices and products subject to change without notice. See www.usascientific.com for current information.

TipOne® Hinged Racks

- Engineered for a low-force fit on a wide variety of pipettors
- Compatible with multichannel pipettors
- Racks, wafers, and lids are recyclable polypropylene and are marked with a #5 symbol
- Choose original or ultra low retention tips
- Certified free of detectable RNase, DNase, and DNA



1000 µl blue tips

Recessed tip compartments reduce movement for easier tip application

Choose TipOne® for accurate delivery, exceptional fit, and less laboratory waste. TipOne is the original, easy-to-load system that does not require tedious alignment or additional devices to load tips into racks.

Sturdy racks resist accidental tipping. The transparent, hinged lid remains open at 120° for unhindered access and has a raised rim for easy stacking and storage. The lid is removable and can be reversed for lift-off use.

TipOne racks are easy to refill with pre-loaded, snap-in tip wafers. The wafers provide flex-free support for reliable tip seating with either single or multi-channel pipettors. Tip wafers have individual, recessed compartments that reduce tip movement for easier application.

The lid, tip wafers, and base will withstand repeated autoclaving. The two-position latch allows the lid to be fully closed or left slightly open for more effective autoclaving. See page A18 for autoclaving instructions.

All TipOne racks are labeled with complete information, including description, catalog number, and fully traceable lot number.

Convenient starter systems contain both racks and refills. Please see pages A14-A16 for information on refill wafers and starter systems. See pages A12 for information on sterile racks.

MADE IN USA

TipOne RPT ultra low retention tips

TipOne® Pipet Tips in Racks

10 racks of 96 tips (960) per pack. All tips are natural unless a color is indicated. MADE IN USA

	DESCRIPTION	CAT. NO.	PRICE PER PACK 1-9	10+
A	10 µl graduated tip	1111-3800	$47.00	$40.00
B	10 µl elongated graduated tip	1110-3800	$47.00	$40.00
C	0.5-10/20 µl tip	1111-4800	$47.00	$40.00
D	200 µl tip	1111-0800	$47.00	$40.00
E	200 µl yellow tip	1111-0806	$47.00	$40.00
F	200 µl beveled tip	1111-1800	$47.00	$40.00
G	200 µl yellow, beveled tip	1111-1806	$47.00	$40.00
H	200 µl graduated tip	1110-1800	$48.50	$41.50
I	200 µl yellow, beveled, graduated tip	1110-1806	$48.50	$41.50
J	300 µl graduated tip (new design)	1110-9800	$49.50	$42.40
K	1000 µl graduated tip	1111-2820	$51.25	$43.10
L	1000 µl blue, graduated tip	1111-2821	$51.25	$43.10
M	1250 µl graduated XL tip	1112-1820	$51.25	$43.10

TipOne® RPT Repel-Polymer Technology Pipet Tips in Racks

TipOne® quality and convenience combined with ultra low retention! TipOne RPT has an optimized polypropylene surface that ensures full delivery of detergents, viscous liquids, and other difficult samples. Certified RNase, DNase, and DNA free. See page A2 for additional information about our ultra low retention technology. MADE IN USA

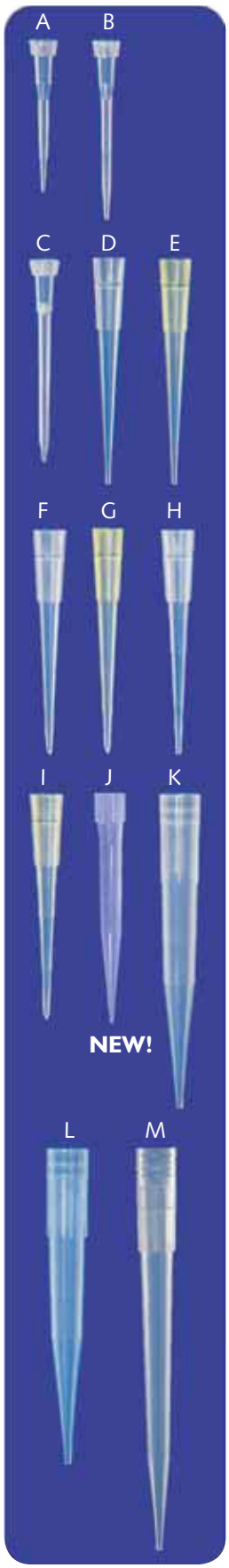
10 racks of 96 tips (960) per pack. All tips are natural color.

	DESCRIPTION	CATALOG NO.	PRICE PER PACK 1-9	10+
A	10 µl graduated tip	1161-3800	$51.75	$44.25
F	200 µl beveled tip	1161-1800	$51.75	$44.25
J	300 µl graduated tip **NEW**	1160-9800	$54.50	$46.75
M	1250 µl graduated XL tip	1161-1820	$61.00	$53.00

TipOne® Graduations

10 µl	2.5 and 10 µl
10 µl elongated	2, 5, and 10 µl
200 µl	10, 50, and 100 µl
300 µl	100, 200, and 300 µl
1000 µl	250 and 500 µl
1250 µl XL	100, 250, 500, and 1000 µl

Graduations represent standard laboratory conditions for aqueous solutions. Results may vary depending upon viscosity and temperature.



10 µl (A and B) tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
0.5-10/20 µl (C) tips fit ErgoOne®, Transferpette®, Eppendorf® 0.5-10 µl, Nichiryo, and Oxford Benchmate® ultra micro pipettors. 0.5-10 µl tips will hold up to 20 µl when used with the 7100-0221 ErgoOne® ultra micro tip cone.
200, 300, 1000, and 1250 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.

TipOne® Sterile Pipet Tips in Racks

1. Convenient hinged lid
2. Flex-free wafers for reproducible tip seating
3. Sturdy, non-tipping rack

Tamper evident seals on TipOne filter tip racks are easy to grasp while wearing gloves.

TipOne® pipet tips are manufactured in the USA using fully automated, state of the art production equipment housed in a positive pressure, HEPA filtered environment. They are suitable for most molecular biology applications without additional sterilization.

If your procedures require sterilized tips, our sterile TipOne racks offer more than just convenience. All racks are individually sealed in a tamper evident sleeve and sterilized with beta irradiation. You can be assured that your tips have not been exposed after sterilization and that they are free of detectable RNase, DNase, DNA, and pyrogens. Although the autoclaving of pipet tips is a common practice, there is a risk that RNase or chemical components left behind in an autoclave could cause contamination of the tips during the autoclave process. TipOne sterilized pipet tips eliminate these concerns. MADE IN USA

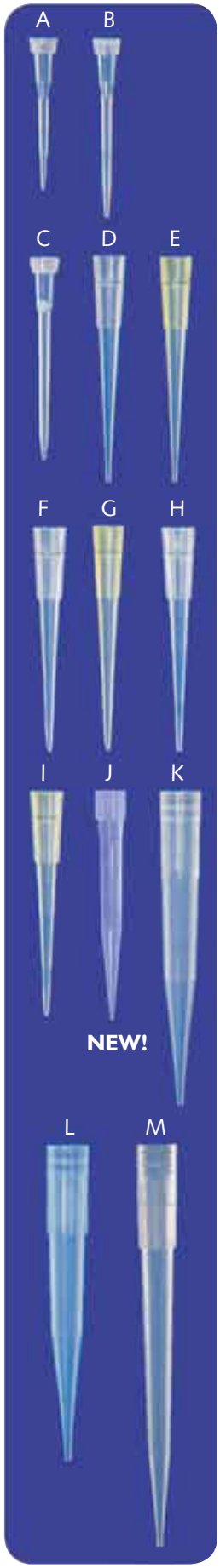
- Engineered for a low-force fit on a wide variety of pipettors
- Compatible with multichannel pipettors
- Convenient hinged lids help prevent contamination between tip use
- High-quality racks resist tipping during use and can be refilled for non-sterile use
- Racks, wafers, and lids are recyclable polypropylene and are marked with a #5 symbol
- Electron beam sterilization requires no gamma radiation
- Certified free of detectable RNase, DNase, DNA, and pyrogens

Sterility Assurance for TipOne Sterile Tips

USA Scientific uses beta sterilization for TipOne and TipOne RPT filter tips in accordance with ANSI/AAMI/ISO recommended guidelines. Irradiation using high energy electrons (electron beam) delivers the entire dose to the product in seconds, not hours. This can reduce oxidative damage to polypropylene and polyethylene as compared to gamma irradiation procedures. The electron beam process provides an environmentally sound sterilization option. Standard electricity is used, and the need to transport hazardous or radioactive materials is eliminated.

TipOne®

Sterile Pipet Tips in Racks



10 racks of 96 tips (960) per pack. All tips are natural unless a color is indicated. MADE IN USA

	DESCRIPTION	CAT. NO.	PRICE PER PACK 1-9	10+
A	10 µl graduated tip	1111-3810	$57.50	$48.50
B	10 µl elongated, graduated tip	1110-3810	$57.50	$48.50
C	0.5-10/20 µl tip	1111-4810	$57.50	$48.50
D	200 µl tip	1111-0810	$57.50	$48.50
E	200 µl yellow tip	1111-0816	$57.50	$48.50
F	200 µl beveled tip	1111-1810	$57.50	$48.50
G	200 µl yellow, beveled tip	1111-1816	$57.50	$48.50
H	200 µl graduated tip	1110-1810	$58.75	$49.75
I	200 µl yellow, beveled, graduated tip	1110-1816	$58.75	$49.75
J	300 µl graduated tip (new design)	1110-9810	$60.00	$50.75
K	1000 µl graduated tip	1111-2830	$61.00	$51.75
L	1000 µl blue, graduated tip	1111-2831	$61.00	$51.75
M	1250 µl graduated XL tip	1112-1830	$61.00	$51.75

TipOne® Graduations

10 µl	2.5 and 10 µl
10 µl elongated	2, 5, and 10 µl
200 µl	10, 50, and 100 µl
300 µl	100, 200, and 300 µl
1000 µl	250 and 500 µl
1250 µl XL	100, 250, 500, and 1000 µl

Graduations represent standard laboratory conditions for aqueous solutions. Results may vary depending upon viscosity and temperature.

10 µl (A and B) tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
0.5-10/20 µl (C) tips fit ErgoOne®, Transferpette®, Eppendorf® 0.5-10 µl, Nichiryo, and Oxford Benchmate® ultra micro pipettors. 0.5-10 µl tips will hold up to 20 µl when used with the 7100-0221 ErgoOne® ultra micro tip cone.
200, 300, 1000, and 1250 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.

TipOne® Refill Wafers

200 µl refill wafers

1250 µl refill wafers

Space-saving, nested refills are available for five different sizes of pipet tips.

See page A16 for starter systems

TipOne RPT

Dramatically reduce packaging waste with refill wafers

- Refill tip racks instead of buying new racks
- Reduce packaging waste
- Choose original or ultra low retention tips
- Certified free of detectable RNase, DNase, and DNA

Want an easy way to reduce the amount of plastic used in your lab? TipOne can help. Our pipet tip refill system offers an effortless way to significantly decrease the amount of packaging left after pipet tip use. Using refill wafers instead of new tip racks can save over 65% plastic by weight.

TipOne® refill wafers are easy to use. There is no need to line tips up with holes in the rack, and no tools are required. Simply remove the wafer from the package and snap it into an empty rack. The wafers will stay in the racks until you are ready to replace them. (See pages A10-A11 for information on TipOne hinged racks.) Starter systems that include filled racks and refills are available (see page A16).

TipOne wafers provide flex-free support for reliable tip application with either single or multi-channel pipettors. Wafers have individual, recessed compartments that reduce tip movement for easier application.

Ultra micro 0.1-10 µl (1111-3700), 200 µl, and 1250 µl tip refills are nested in a protective plastic shell which holds ten pre-loaded 96 tip wafers. Elongated 0.1-10 µl, 300 µl, and 1000 µl tips do not nest; therefore these tips are packaged in five plastic shells, each holding two 96 tip wafers.

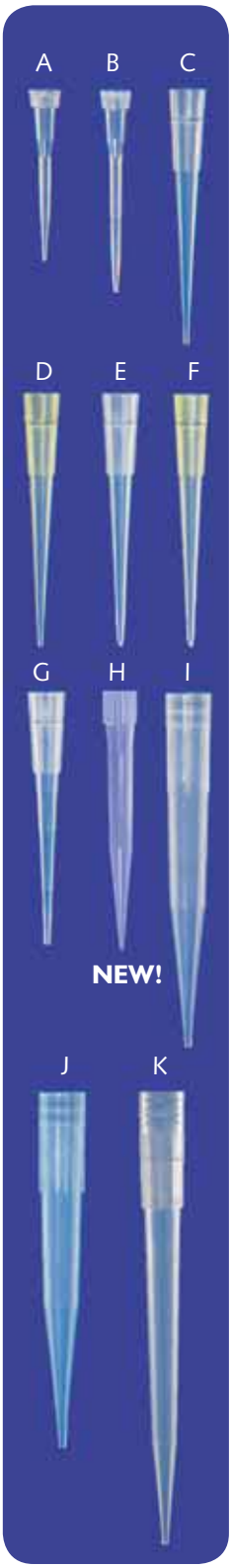
All tip refills are labeled with complete information, including description, catalog number, and fully traceable lot number.

MADE IN USA

TipOne® Pipet Tip Refill Wafers

10 wafers of 96 tips (960) per pack. All tips are natural unless a color is indicated. MADE IN USA

	DESCRIPTION	NESTED	CATALOG NO.	PRICE PER PACK 1-9	PRICE PER PACK 10+
A	10 µl tip	Yes	1111-3700	$35.00	$29.60
B	10 µl elongated tip	--	1110-3700	$39.00	$33.50
C	200 µl tip	Yes	1111-0700	$35.00	$29.60
D	200 µl yellow tip	Yes	1111-0706	$35.00	$29.60
E	200 µl beveled tip	Yes	1111-1700	$35.00	$29.60
F	200 µl yellow, beveled tip	Yes	1111-1706	$35.00	$29.60
G	200 µl graduated tip	Yes	1110-1700	$38.25	$32.75
H	300 µl graduated tip (new design)	--	1110-9700	$39.00	$33.50
I	1000 µl graduated tip	--	1111-2720	$41.75	$34.50
J	1000 µl blue, graduated tip	--	1111-2721	$41.75	$34.50
K	1250 µl graduated XL tip*	Yes	1112-1720	$41.75	$34.50



TipOne® RPT Repel-Polymer Technology Pipet Tip Refill Wafers

TipOne® quality and convenience combined with ultra low retention! TipOne RPT has an optimized polypropylene surface that ensures full delivery of detergents, viscous liquids and other difficult samples. Certified RNase, DNase, and DNA free. See page A2 for additional information about our ultra low retention technology.

10 wafers of 96 tips (960) per pack. All tips are natural color. MADE IN USA

	DESCRIPTION	NESTED	CATALOG NO.	PRICE PER PACK 1-9	PRICE PER PACK 10+
A	10 µl tip	Yes	1161-3700	$38.50	$32.40
E	200 µl beveled tip	Yes	1161-1700	$38.50	$32.40
H	300 µl graduated tip **NEW**	--	1160-9700	$43.00	$37.00
K	1250 µl graduated XL tip*	Yes	1161-1720	$47.00	$39.80

10 µl (A and B) tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
200, 300, 1000, and 1250 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.
***1250 µl** tips fit most 1000 µl pipettors. They are longer than 1000 µl tips; please make sure you have the appropriate racks when using the 1250 µl wafers.
0.5-10 µl tips and **200 µl** yellow beveled graduated tips are not available in refill wafers or starter systems.

Prices and products subject to change without notice. See www.usascientific.com for current information.

TipOne® Starter Systems

Convenient way to get your lab started with TipOne. Includes ten racks (filled with tips) and 20 refill wafers (30 x 96 tips). Choose original TipOne or TipOne RPT ultra low retention tips. MADE IN USA

- Refill tip racks instead of buying new racks
- Reduce packaging waste
- Certified free of detectable RNase, DNase, and DNA

TipOne® Starter Systems

10 racks and 2 refills, 30 x 96 tips (2880).
All tips are natural unless a color is indicated.

	DESCRIPTION	NESTED	CATALOG NO.	PRICE
A	10 µl tip	Yes	1111-3500	$105.50
B	10 µl elongated tip	--	1110-3500	$112.50
C	200 µl tip	Yes	1111-0500	$105.50
D	200 µl yellow tip	Yes	1111-0506	$105.50
E	200 µl beveled tip	Yes	1111-1500	$105.50
F	200 µl yellow, beveled tip	Yes	1111-1506	$105.50
G	200 µl graduated tip	Yes	1110-1500	$112.50
H	300 µl graduated tip (new design)	--	1110-9500	$114.75
I	1000 µl graduated tip	--	1111-2520	$121.75
J	1000 µl blue, graduated tip	--	1111-2521	$121.75
K	1250 µl graduated XL tip*	Yes	1112-1500	$121.75

TipOne® RPT Repel-Polymer Technology Starter Systems

10 racks and 2 refills, 30 x 96 tips (2880).
All low retention tips are natural color.

	DESCRIPTION	NESTED	CATALOG NO.	PRICE
A	10 µl tip	Yes	1161-3500	$116.00
E	200 µl beveled tip	Yes	1161-1500	$116.00
H	300 µl graduated tip **NEW**	--	1160-9500	$126.45
K	1250 µl graduated XL tip*	Yes	1161-1520	$139.50

***1250 µl** tips fit most 1000 µl pipettors. They are longer than 1000 µl tips; please make sure you have the appropriate racks when using the 1250 µl wafers.

TipOne® Stacked Tips

- Stacked tip layers save space in crowded labs and reduce packaging waste
- Wide base will not tip over during use
- Compatible with 8- or 12-channel pipettors
- Certified free of detectable RNase, DNase, and DNA
- Sterile stacks are certified free of detectable pyrogens
- All stack materials are recyclable polypropylene and are marked with a #5 symbol

Save space on your bench - one TipOne stack holds 960 tips in a 5⅛" x 6⅝" footprint. Stacked racks use 58% less space than individual tip racks.

The side-by-side wafer design gives each stack a wide base that will not tip over during use. Each stack has five interlocking layers of two 96-tip wafers. Each tip layer locks into the one below it, preventing accidental separation. After all the tips in the layer are used, the frame easily lifts off to make two new 96-tip wafers available.

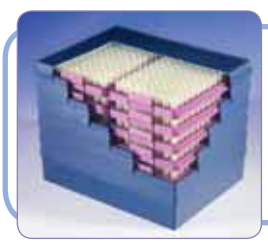
Each unit is individually sealed and has a tear strip for easy opening without sharp instruments. Once the plastic shrink wrap is removed, the entire unit is autoclavable. Selected tip stacks are also available pre-sterilized. All stacks are labeled with complete information, including description, catalog number, and fully traceable lot number. MADE IN USA

TipOne® Pipet Tip in Stacks

10 wafers of 96 tips (960) per unit.
All tips are natural unless a color is indicated.

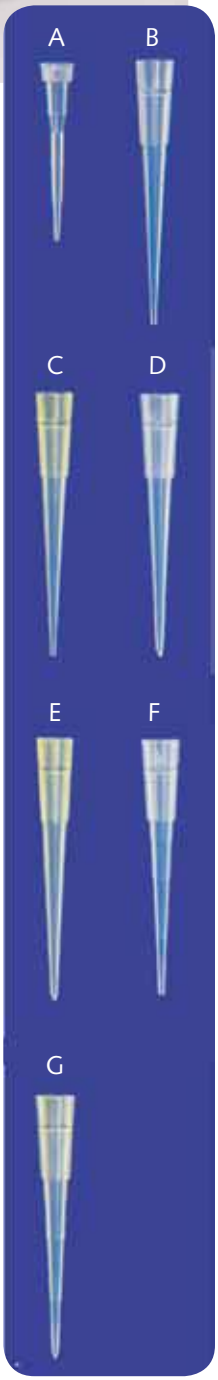
	DESCRIPTION	CAT. NO.	PRICE PER PACK 1-9	10+
A	10 µl tip	1111-3200	$40.75	$35.00
A	10 µl tip, sterilized	1111-3210	$46.00	$38.75
B	200 µl tip	1111-0200	$38.50	$33.00
C	200 µl yellow tip	1111-0206	$38.50	$33.00
D	200 µl beveled tip	1111-1200	$38.50	$33.00
D	200 µl beveled tip, sterilized	1111-1210	$43.50	$36.75
E	200 µl yellow, beveled tip	1111-1206	$38.50	$33.00
F	200 µl graduated tip	1110-1200	$40.00	$34.25
G	200 µl yellow, beveled, graduated tip	1110-1206	$40.00	$34.25

10 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
200 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.



Cutaway view of TipOne stack. A stack of tip wafers uses 58% less space than individual racks.

TipOne products are labeled with complete information, including description, catalog number, and lot number.



Prices and products subject to change without notice. See www.usascientific.com for current information.

TipOne® Bulk Tips

- Sealed bags with tamper evident strips ensure cleanliness
- Thick bags prevent punctures during shipping and storage
- Resealable zip top closure
- Label identifies tip style and lot number
- Certified free of detectable RNase, DNase, and DNA

Bulk bags offer an economical way to purchase pipet tips. TipOne pipet tips are bagged and sealed by automation, ensuring cleanliness. Zip top closure provides spill proof storage. For labs that reserve bags for specific applications, the tamper evident sealing strip indicates which bags have not been opened.

MADE IN USA

TipOne bulk tips are labeled with complete information, including description, catalog number, and lot number.

Autoclaving Instructions for TipOne Products

1. Place racked tips in the autoclave. If desired, the hinged lid may be propped open using the tab on the front of the lid.
2. Autoclave at 121°C (252°F) under a pressure of 15 psi for 15 minutes.
3. Allow tips to dry thoroughly before use.

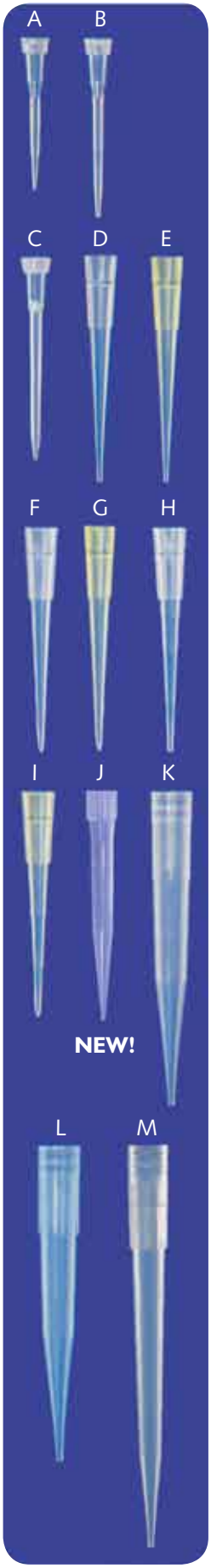
Note:
- Remove the shrink-wrap from stacked tips before autoclaving.
- Tips in refill packages must be placed inside the hinged racks before autoclaving.
- Excessive heat and/or prolonged time in the autoclave may cause warping of both the tips and the rack.
- No drying cycle is required. Allow the tips to dry at room temperature before use.

TipOne® Bulk Pipet Tips

1000 per bag. All tips are natural unless a color is indicated.

	DESCRIPTION	CAT. NO.	PRICE PER BAG 1-9	10+
A	10 µl tip	1111-3000	$27.00	$23.25
B	10 µl elongated tip	1110-3000	$27.00	$23.25
C	0.5-10/20 µl tip	1111-4000	$27.00	$23.25
D	200 µl tip	1111-0000	$27.00	$23.25
E	200 µl yellow tip	1111-0006	$27.00	$23.25
F	200 µl beveled tip	1111-1000	$27.00	$23.25
G	200 µl yellow, beveled tip	1111-1006	$27.00	$23.25
H	200 µl graduated tip	1110-1000	$29.00	$24.50
I	200 µl yellow, beveled, graduated tip	1110-1006	$29.00	$24.50
J	300 µl graduated tip (new design)	1110-9000	$29.50	$25.00
K	1000 µl graduated tip	1111-2020	$29.50	$25.00
L	1000 µl blue, graduated tip	1111-2021	$29.50	$25.00
M	1250 µl graduated XL tip*	1112-1020	$32.25	$27.25

10 µl tips (A and B) fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman® P-2/P-10, Transferpette®, Eppendorf® 0.1-2.5 µl and 0.5-10 µl, Benchmate®, and other ultra micro pipettors.
0.5-10/20 µl tips (C) fit ErgoOne®, Transferpette®, Eppendorf® 0.5-10 µl, Nichiryo, and Oxford Benchmate® ultra micro pipettors. 0.5-10 µl tips will hold up to 20 µl when used with the 7100-0221 ErgoOne® micro tip cone.
200, 300, 1000, and 1250 µl tips fit ErgoOne®, Biohit® mLINE® and Proline, Pipetman, Finnpipette®, Brand Transferpette, Eppendorf, Nichiryo, Oxford Benchmate, and USA Scientific pipettors.
***1250 µl** tips fit most 1000 µl pipettors. They are longer than 1000 µl tips; please make sure you have the appropriate racks when using the 1250 µl wafers.

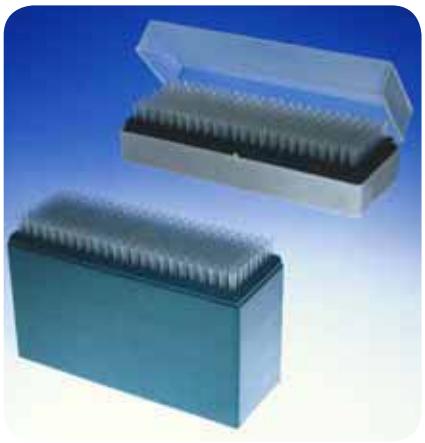


TipOne® Graduations

Graduations represent standard laboratory conditions for aqueous solutions. Results may vary depending upon viscosity, humidity, and temperature.

Volume	Graduations
10 µl	2.5 and 10 µl
10 µl elongated	2, 5, and 10 µl
200 µl	10, 50, and 100 µl
300 µl	100, 200, and 300 µl
1000 µl	250 and 500 µl
1250 µl	100, 250, 500, and 1000 µl

Re-Pak Rack



Natural, beveled, graduated 200 µl tip in a refillable, hinged rack that holds 192 tips (8 rows of 24 tips). Multichannel compatible. Polypropylene tips and racks are autoclavable.

		1-9	10+
1031-0600	Hinged rack with 5 trays of 192 (960) tips	$59.50	$50.50
1030-0600	5 stacked trays of 192 (960) tips, no rack	$56.00	$48.00

Large Orifice Tips

Wide opening helps prevent damage to fragile cells and genomic DNA. Also useful for viscous solutions. Polypropylene; autoclavable. Certified RNase, DNase, and DNA free. Sterile tips and filter tips are also certified pyrogen free.

Large orifice tips fit most pipettes, including ErgoOne®, Biohit®, Pipetman®, Finnpipette®, Eppendorf®, Nichiryo, Oxford Benchmate®, and similar brands.

1011-8406

1011-9500

1011-8810

250 µl

250 µl large orifice tips have an inner diameter of 1.50 mm at the delivery end. Graduated at 10, 50, and 100 µl. 50 mm long.

		1-9	10+
1011-8006	Yellow tip, 1000/bag	$23.75	$20.75
1011-8406	Yellow tip, 10 racks of 96 (960)	$42.75	$36.75
1011-8416	Yellow tip, 10 racks of 96 (960), sterile	$55.00	$49.50

1000 µl

1000 µl large orifice tips have an inner diameter of 4.63 mm at the delivery end. Graduated at 100, 500, and 1000 µl. 71 mm long.

1011-9000	Natural tip, 1000/bag	$27.25	$23.50
1011-9500	Natural tip, 10 racks of 100 (1000)	$48.00	$41.25
1011-9510	Natural tip, 10 racks of 100 (1000), sterile	$53.00	$45.50

200 µl Filter

200 µl filter tips have an inner diameter of 1.50 mm at the delivery end. 50 mm long.

1011-8810	Filter tip, 10 racks of 96 (960), sterile	$119.50	$108.75

Xtra-Long Pipet Tip

200 µl tip is 91 mm long for easier access into deep, narrow tubes. Inner diameter of the orifice is 0.46 mm. Natural polypropylene.

		1-9	10+
1011-0020	Xtra-Long tip, 1000/bag	$44.25	$40.75
1011-0920	Xtra-Long tip, 1 rack of 204 tips	$22.00	$20.75
1011-0830	Xtra-Long filter tip*, 4 racks of 204 (816), sterile	$130.00	$118.50

*Recommended for 100 and 200 µl pipettes, including ErgoOne®, Biohit®, Pipetman®, Finnpipette®, Eppendorf®, Nichiryo, Oxford Benchmate®, and similar brands. May not fit 20 µl mLINE® pipets.

5 ml Pipet Tips

Choose collar style A for ErgoOne®, Rainin®, and Gilson® Pipetman® or collar style B for Eppendorf Research®, Biohit®, and older USA Scientific® pipettes. Both tip styles are graduated every 0.5 ml from 1 ml to 5 ml; the inner diameter of the orifice is 1.32 mm and the length is 12.3 cm. Natural polypropylene; certified RNase, DNase, and DNA free. Sterile tips are also certified pyrogen free.

		1-9	10+
Collar Style A			
1050-0000	5 ml tip, 2 bags of 250 (500)	$40.75	$35.00
1050-0700	5 ml tip, 10 racks of 50 (500)	$56.50	$48.00
1050-0710	5 ml tip, 10 racks of 50 (500), sterile	$65.50	$56.00
1050-0810	5 ml filter tip, 10 racks of 50, sterile	$256.00	$217.50
Collar Style B			
1053-0000	5 ml tip, 2 bags of 250 (500)	$40.75	$35.00
1053-0700	5 ml tip, 10 racks of 50 (500)	$56.50	$48.00
1053-0710	5 ml tip, 10 racks of 50 (500), sterile	$65.50	$56.25
1053-0810	5 ml filter tip, 10 racks of 50, sterile	$256.00	$217.50

10 ml Pipet Tips

Natural 10 ml polypropylene tips fit Rainin® and Gilson® Pipetman® 10 ml pipettes. Non-graduated; the inner diameter of the orifice is 2.11 mm and the length is 14.5 cm. Certified RNase, DNase, and DNA free. Sterile tips are also certified pyrogen free.

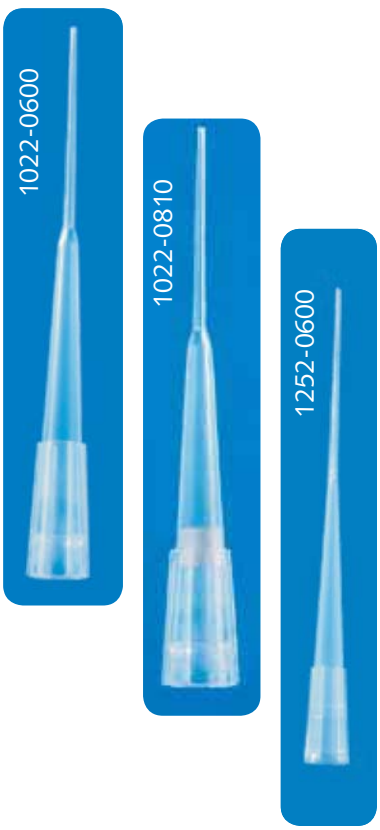
1051-0000

		1-9	10+
1051-0000	10 ml tip, 200/bag	$49.25	$42.25
1051-0350	10 ml tip, 10 racks of 25 (250)	$96.00	$81.75
1051-0360	10 ml tip, 10 racks of 25 (250), sterile	$105.00	$89.75

Round Gel Loading Tips

Gel-Saver® Tip

200 µl gel loading tip has a round 0.6 mm OD orifice and measures 68.6 mm long. Fits most 20, 50, 100, and 200 µl pipettes. Natural polypropylene.



		1-9	10+
1022-0600	5 racks of 204 (1020)	$95.75	$87.00
1022-0610	5 racks of 204 (1020), sterile	$116.25	$106.50
1022-0000	Bag of 1000	$63.00	$57.75

Gel-Saver® Tip with Filter

100 µl gel loading tip has a hydrophobic filter barrier. Round 0.6 mm OD orifice; 68.6 mm long. Fits most 50, 100, and 200 µl pipettors. Natural polypropylene, sterile.

		1-9	10+
1022-0810	5 racks of 204 (1020), sterile	$159.25	$145.00

Long Gel Tip

Tapered 200 µl gel tip has a round 0.57 mm OD orifice and measures 82.2 mm long. Fits most 20, 50, 100, and 200 µl pipettes. (Not recommended for 20 and 100 µl Biohit® mLINE.) Certified RNase and DNase free. Natural polypropylene.

		1-9	10+
1252-0600	1 rack of 200	$31.00	$28.25
1252-0610	1 rack of 200, sterile	$34.50	$31.50

Prices and products subject to change without notice. See www.usascientific.com for current information.

Flat Gel Loading Tips

Natural polypropylene tips are certified RNase, DNase, and DNA free. Sterile tips are also certified pyrogen free. See usascientific.com for 0.5-10 µl flat gel tips.

200 µl Flat Gel Tip

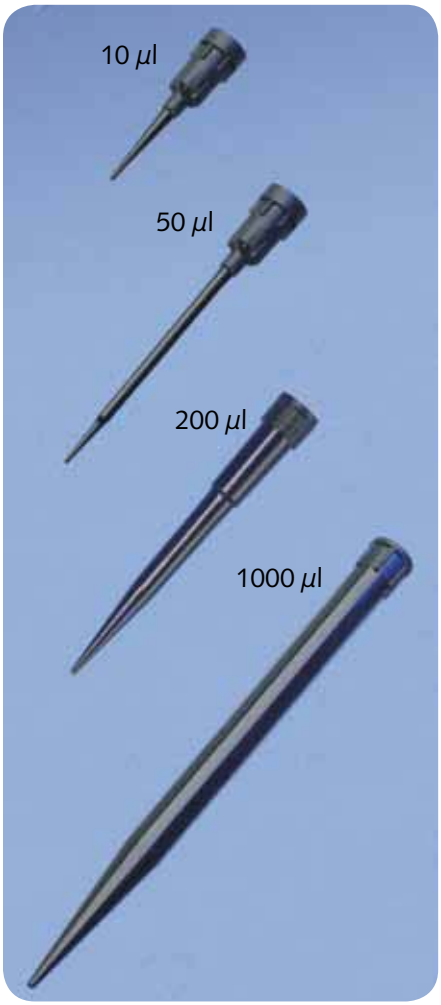
200 µl flat gel tip measures 83 mm long. Choose 0.37 mm or 0.17 mm thickness (OD). Fits most 20, 50, 100, and 200 µl pipettes. 200 tips/rack.

		1-9	10+
1022-4600	0.37 mm	$74.25	$67.50
1022-4610	0.37 mm, sterile	$77.50	$69.75
1022-2600	0.17 mm	$110.75	$100.75
1022-2610	0.17 mm, sterile	$121.00	$109.50

0.1-10 µl Flat Gel Tip

0.1-10 µl flat gel tip is 45 mm long with a 0.37 mm orifice (OD). Fits ErgoOne®, Pipetman®, Biohit®, and Eppendorf® Research 0.5-10 µl and 0.1-2.5 µl ultra micro pipettes. 200 tips/rack. See usascientific.com for 0.17 mm orifice.

		1-9	10+
1012-4600	0.37 mm	$74.25	$67.50
1012-4610	0.37 mm, sterile	$77.50	$69.75



TipOne® AUTOMATION

for Tecan® GENESIS® and Freedom EVO®

- Certified RNase, DNase, and DNA free
- Tips are 100% digitally inspected
- Specially designed automation filters balance pore size and airflow to maintain optimum fluid movement
- Each case has 12 packages of two 96-tip refill trays

Flex-free tip wafer stands up to robotic forces for reliable tip alignment and attachment. Original rack format; not for use with MCA 96 modules. For research use only. Each case includes 12 twin trays of 96 tips (2304 tips). Filter tips are non-sterile.

		1-9	10+
1181-3709	10 µl conductive black tip	$294.00	$264.75
1181-5709	50 µl conductive black tip	$294.00	$264.75
1181-0709	200 µl conductive black tip	$226.50	$209.75
1181-2709	1000 µl conductive black tip	$247.25	$229.25
1128-3819	10 µl conductive black filter tip	$400.00	$376.25
1128-5819	50 µl conductive black filter tip	$400.00	$376.25
1128-0819	200 µl conductive black filter tip	$349.50	$329.50
1128-2819	1000 µl conductive black filter tip	$364.25	$341.00

Tips for Biomek® FX and 3000 Systems

Automation quality tips are performance tested on Biomek FX workstations. Rigorous quality control and lot testing ensure proper tip seating and liquid delivery for worry-free, walk-away performance. Natural color, metal-free virgin medical grade polypropylene. Certified free of detectable RNase, DNase, DNA, and PCR inhibitors. Sterile tips are certified pyrogen free. Autoclaving is not recommended.

96-Tip Racks
Tips fit Biomek FX, NX, NX^{P}, Multimek 96, and Cyberlab systems with the AP96 head and are Span-8 compatible. Ten racks of 96 tips (960) per pack.

1061-2400	20 µl tip	$48.25
1061-2410	20 µl tip, sterile	$60.50
1061-2810	20 µl filter tip, sterile	$105.75
1061-5400	50 µl tip	$49.00
1061-5410	50 µl tip, sterile	$60.50
1061-5810	50 µl filter tip, sterile	$105.75
1062-2400	250 µl tip	$49.00
1062-2410	250 µl tip, sterile	$60.50
1062-2810	175 µl filter tip, sterile	$105.75

384-Tip Racks
Tips for Biomek FX, Multimek 96, and Cyberlab systems with the AP384 head. Ten racks of 384 tips (3840) per pack.

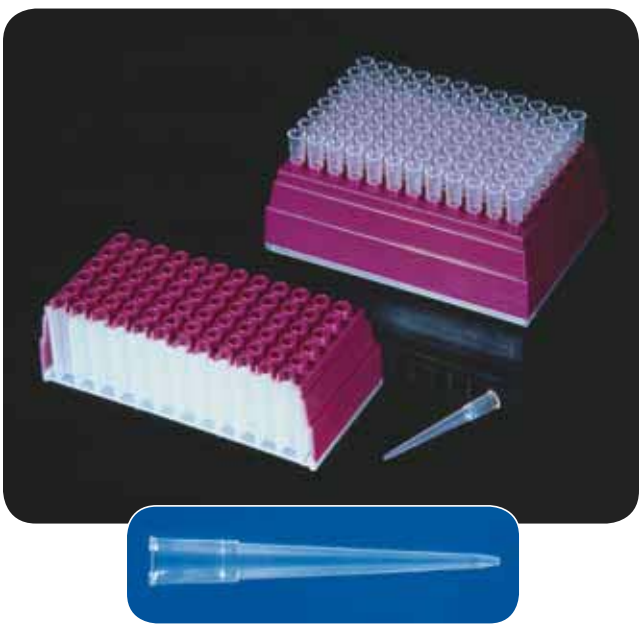
1063-8400	30 µl tip	$644.50
1063-8410	30 µl tip, sterile	$696.00

Tips for the Biomek FX AP384 head

Zymark® Tip and Rack System

Automation Certified® pipet tips deliver trouble free performance with Caliper (Zymark) automation hardware. Use with the Zymate® System, Caliper® RapidPlate® -96/384 workstation, or other systems that use the Zymark style tip. Natural color, 100% virgin polypropylene. Filter tips are certified RNase free, DNase free, and non-pyrogenic. 10 wafers of 96 tips (960).

1015-9400	100 µl tip (5 pack minimum)	$83.00
1016-0400	200 µl tip	$79.75
1015-9810	80 µl filter tip, sterile	$168.75
1016-0810	150 µl filter tip, sterile	$157.25



ErgoOne®

Pipetting optimized.

- Color-coded by volume for quick identification A
- Plunger forces maximize control with minimal stress B
- Volume can be adjusted and locked with one hand C
- Ejector button position reduces strain D
- Curved grip and support hook for comfortable handling E
- Tip application requires minimal force F
- Cascading sleeve design reduces ejection forces G
- O-rings reduce wear and increase tip compatibility H
- Fully autoclavable, chemical- and UV-resistant materials
- Light, balanced weight reduces fatigue

Stainless steel ultra micro tip cones for longer life (single channels)

4-digit display for increased accuracy

International Forum Design Award

product design award 2010

ErgoOne has been awarded the iF product design award for ergonomic and intuitive design.

ErgoOne®

Pipetting optimized.

- Plunger forces maximize control with minimal stress
- No-Drift™ volume lock
- Light, balanced weight reduces fatigue
- 4-digit display increases precision
- Durable body is autoclavable and resists chemicals

Reproducible Results

ErgoOne® pipettes are engineered and manufactured to meet strict accuracy and precision specifications. High quality materials provide reproducible results day after day. Each pipette carries an individual serial number and is supplied with a certificate of EN ISO 8655 quality test results.

The four-digit display helps you specify a more accurate and reproducible volume, while the volume control locks into place to eliminate drifting or changing during use.

Stress-Relieving Ergonomic Design

Smooth, even plunger forces give you maximum control over sample delivery while minimizing repetitive strain. Tip application requires minimal pressure for complete sealing, and the light, balanced weight reduces fatigue. The handle and curved support hook promote a natural, relaxed grip, and the body length has been optimized for reduced arm stress.

The four-digit volume display is viewable during use by both left and right handed users. The volume can be quickly changed with minimal effort, and our popular No-Drift™ volume lock can be set and released with just one hand.

ErgoOne® multichannel tip cone o-rings reduce the tip attachment and ejection forces required for 100 µl and 300 µl pipets. O-rings also reduce wear on the tip cones and provide better sealing and compatibility with various tips.

Durable Construction

ErgoOne® pipettes will withstand the rigors of daily laboratory use and are fully autoclavable. The exterior is made with durable UV- and chemical-resistant polypropylene. Single channel 2.5 µl, 10 µl, and 20 µl ultra micro pipettes have stainless steel tip cones for longer life. All ErgoOne® pipettes have a three-year warranty.

TipOne®

We've put our years of experience in liquid handling to work to create a pipettor that reflects the quality, reliability, and value of the TipOne® pipet tip system. Just as we worked with laboratory researchers to establish the design for the best pipet tip system, we combined researcher's needs and wants with ergonomic principles to produce an optimized pipettor that will become your new favorite.

ErgoOne® works with TipOne® and other universal tips. We won't lock you in with a proprietary tip, but we recommend TipOne® for exceptional fit and performance.

Prices and products subject to change without notice. See www.usascientific.com for current information.

MANUAL PIPETTORS

ErgoOne®

ErgoOne® adjustable volume single channel pipettes are available in a full range of volumes to cover your pipetting needs. The 2-20 µl is offered in two formats - a standard tip cone that accepts 200 µl tips and an ultra micro tip cone format that accepts 10 µl style tips. Single channel ultra micro volume pipettes have stainless steel tip cones for increased durability.

ErgoOne Single Channel Pipettes $269.75

7100-0125 0.1-2.5 µl, 0.002 µl increments
7100-0510 0.5-10 µl, 0.01 µl increments
7100-0221 2-20 µl, ultra micro tip cone, 0.02 µl increments
7100-0220 2-20 µl, standard tip cone, 0.02 µl increments
7100-1100 10-100 µl, 0.1 µl increments
7100-2200 20-200 µl, 0.2 µl increments
7110-1000 100-1000 µl, 1 µl increments
7150-5000 500-5000 µl, 5 µl increments

ErgoOne Single Channel Sets

7103-1110	Set of 3. 10, 100, and 1000 µl	$768.75
7103-2210	Set of 3. 20, 200, and 1000 µl	$768.75
7104-1221	Set of 4. 10, 20, 200, and 1000 µl	$1025.00
7104-2521	Set of 4. 2.5, 20, 200, and 1000 µl	$1025.00
7105-2521	Set of 5. 2.5, 10, 20, 200, and 1000 µl	$1281.50
7105-1211	Set of 5. 10, 20, 100, 200, and 1000 µl	$1281.50
7121-2121	Set of 6. 2.5, 10, 20, 100, 200, and 1000 µl	$1537.50

ErgoOne Support Stands

Carousel stand holds up to 8 single or multichannel ErgoOne pipettes. Weighted base prevents tipping.
7200-0000 $127.25

Linear acrylic stand holds ErgoOne and other brands of pipettes with curved support hooks. Measures 11¾" W x 6¼" D X 10¾" H.
3071-0560 $126.50

ErgoOne®

Multi-Channel Pipettes

- Light, balanced weight reduces fatigue
- Plunger forces maximize control with minimal stress
- Contoured grip for comfortable use
- 4-digit display increases precision
- Curved finger rest relaxes your grip
- Plunger height accommodates large and small hands
- Volume adjustment and lock can be set with one hand
- Ejector button position reduces strain
- Durable body is autoclavable and resists chemicals

ErgoOne® pipettes combine researcher requested features with the latest ergonomic principles to provide optimum performance. Smooth, even plunger forces give you maximum control over sample delivery while minimizing repetitive strain. The handle and curved support hook promote a natural, relaxed grip, and the body length has been optimized for reduced arm stress.

The four-digit volume display is positioned for both left and right handed users. The volume adjustment control can be unlocked and set with just one hand.

ErgoOne multichannel tip cone o-rings reduce tip attachment and ejection forces. O-rings also reduce wear on the tip cones and increase compatibility with various tips.

ErgoOne pipettes are color coded by volume, easy to calibrate in the lab, and are fully autoclavable. The body is made from durable UV- and chemical-resistant polypropylene. Assorted color personalization labels are included for convenience.

Each pipette carries an individual serial number and is supplied with a certificate of EN ISO 8655 quality test results. A full range of volumes are available, all with a three-year warranty.

ErgoOne Eight Channel Pipettes

7108-0510	0.5-10 µl, 0.01 µl increments	$660.75
7108-1100	10-100 µl, 0.1 µl increments	$660.75
7108-3300	30-300 µl, 0.2 µl increments	$660.75
7108-3530	Set of 3. 10,100, and 300 µl	$1883.50

ErgoOne Twelve Channel Pipettes

7112-0510	0.5-10 µl, 0.01 µl increments	$775.25
7112-1100	10-100 µl, 0.1 µl increments	$775.25
7112-3300	30-300 µl, 0.2 µl increments	$775.25
7112-3530	Set of 3. 10,100, and 300 µl	$2209.50

ErgoOne® & TipOne® Compatibility Chart

See pages A2-A19 for additional information about TipOne.

ErgoOne® Volume Range	TipOne® Pipet Tips	Sterile Filter Tips	Racks	Refill Wafers	Stacks	Starter Systems	Sterile Racks	Bulk Tips
0.1-2.5 µl 0.5-10 µl[1] 2-20 µl micro tip cone[2]	10 µl	1121-3810	1111-3800	1111-3700	1111-3200 1111-3210	1111-3500	1111-3810	1111-3000
		1181-3810	1161-3800	1161-3700	--	1161-3500	--	--
	10 µl elongated	1120-3810	1110-3800	1110-3700	--	1110-3500	1110-3810	1110-3000
		1180-3810	--	--	--	--	--	--
0.5-10 µl[3] 2-20 µl micro tip cone[2]	10 µl (Eppendorf style)	1121-4810 max. 20 µl	1111-4800	--	--	--	1111-4810	1111-4000
2-20 µl standard tip cone 10-100 µl 20-200 µl	20 µl beveled	1120-1810	--	--	--	--	--	--
		1180-1810	--	--	--	--	--	--
	100 µl beveled	1120-1840	--	--	--	--	--	
		1180-1840	--	--	--	--	--	--
	200 µl graduated	1120-8810	--	--	--	--	--	--
	200 µl beveled	--	1111-0800	1111-0700	1111-0200	1111-0500	1111-0810	1111-0000
	200 µl yellow	--	1111-0806	1111-0706	1111-0206	1111-0506	1111-0816	1111-0006
	200 µl beveled	--	1111-1800	1111-1700	1111-1200 1111-1210	1111-1500	1111-1810	1111-1000
		1180-8810	1161-1800	1161-1700	--	1161-1520	--	--
	200 µl yellow, beveled	--	1111-1806	1111-1706	1111-1206	1111-1506	1111-1816	1111-1006
	200 µl graduated	--	1110-1800	1110-1700	1110-1200	1110-1500	1110-1810	1110-1000
	200 µl yellow, beveled, graduated	--	1110-1806	--	1110-1206	1110-1506	1110-1816	1110-1006
30-300 µl[4]	300 µl graduated	1120-9810	1110-9800	1110-9700	--	1110-9500	1110-9810	1110-9000
		1180-9810	1160-9800	1160-9700	--	1160-9500	--	--
100-1000 µl	1000 µl	1126-7810	--	--	--	--	--	--
	1000 µl graduated	--	1111-2820	1111-2720	--	1111-2520	1111-2830	1111-2020
	1000 µl blue, graduated	--	1111-2821	1111-2721	--	1111-2521	1111-2831	1111-2021
	1250 µl XL	1122-1830	1112-1820	1112-1720	--	1112-1500	1112-1830	1112-1020
		1182-1830	1161-1820	1161-1720	--	1161-1520	--	--
0.5-5 ml[5]	5 ml graduated	1050-0810	1050-0700	--	--	--	1050-0710	1050-0000

Original TipOne pipet tips
TipOne RPT ultra low retention tips

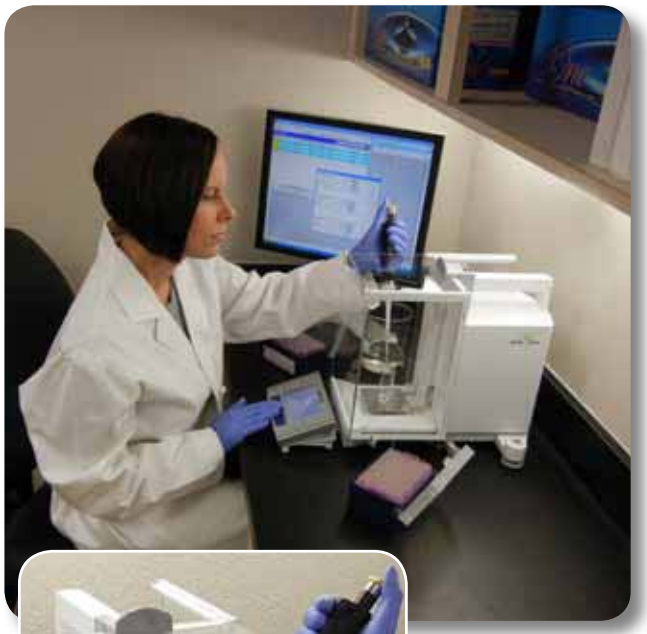
[1]Tips in these rows are recommended for 0.5-10 µl single channels
[2]2-20 µl micro tip cone pipet is designed to use ultra micro tips only. It will accept any of the ultra micro tips above.
[3]Tips in this row are recommended for both 0.5-10 µl single and multichannels
[4]30-300 µl will also accept 200 µl tips.
[5]See page A21 for more information on 5 ml tips.

ErgoOne® Test Specifications

	Test Volume	Systematic Error (Inaccuracy)	Random Error (Imprecision)
Single Channel			
0.1 - 2.5 µl	0.1 µl 1.25 µl 2.5 µl	± 24% ± 2.5% ± 1.4%	± 12% ± 1.5% ± 0.7%
0.5 - 10 µl	1.0 µl 5 µl 10 µl	± 2.5% ± 1.5% ± 1.0%	± 1.8% ± 0.8% ± 0.4%
2 - 20 µl	2 µl 10 µl 20 µl	± 5.0% ± 1.2% ± 1.0%	± 1.5% ± 0.6% ± 0.3%
10 - 100 µl	10 µl 50 µl 100 µl	± 3.0% ± 1.0% ± 0.8%	± 1.0% ± 0.3% ± 0.2%
20 - 200 µl	20 µl 100 µl 200 µl	± 2.5% ± 1.0% ± 0.6%	± 0.7% ± 0.3% ± 0.2%
100 - 1000 µl	100 µl 500 µl 1000 µl	± 3.0% ± 1.0% ± 0.6%	± 0.6% ± 0.2% ± 0.2%
500 - 5000 µl	500 µl 2500 µl 5000 µl	± 2.4% ± 1.2% ± 0.6%	± 0.6% ± 0.25% ± 0.15%
Multichannel			
0.5 - 10 µl	1.0 µl 5 µl 10 µl	± 8.0% ± 4.0% ± 2.0%	± 5.0% ± 2.0% ± 1.0%
10 - 100 µl	10 µl 50 µl 100 µl	± 3.0% ± 1.0% ± 0.8%	± 2.0% ± 0.8% ± 0.3%
30 - 300 µl	30 µl 150 µl 300 µl	± 3.0% ± 1.0% ± 0.6%	± 1.0% ± 0.5% ± 0.3%

Prices and products subject to change without notice. See www.usascientific.com for current information.

CALIBRATION AND REPAIR SERVICES



CalibrationOne®

A USA Scientific Service

Your pipette is one of your most important laboratory instruments. You rely on it for reproducible delivery through every procedure. With today's sensitive experiments, even a slight deviation can skew your results and send you down the wrong path.

Keep your ErgoOne® in factory accuracy and precision specifications with our calibration, preventative maintenance, and repair services. USA Scientific offers three levels of service to meet your laboratory requirements. All levels share the following features and procedures:

- Interior and exterior inspection and cleaning
- Gravimetric testing on a 5-place NIST traceable balance using TipOne® pipet tips
- Controlled testing environment with monitored temperature and humidity
- Replacement of seals and o-rings included as necessary
- Traceable, dated service label
- Email reminder service
- Out the door in 48 hours or less*
- Free return shipping (continental US only)

Level 1.0

Cleaning, inspection, and calibration.

Pipettes are dismantled and fully cleaned. All seals and o-rings are inspected. If replacement parts are required, you will be notified prior to calibration.

A total of eight readings for inaccuracy and imprecision will be taken, four at the nominal volume and four at the minimum volume. The pipette will be labeled with the date of service, technician initials, next recommended calibration date, and serial number.

Level 2.0

Cleaning, inspection, preventative maintenance, calibration, and certification.

Preventative maintenance includes inspection of the piston, shaft, shaft coupling, tip ejector, plunger button, plunger rod, springs, seals and o-rings. If necessary, the piston will be greased and o-rings and seals will be replaced. A leak test will be done after reassembly. If additional replacement parts are required, you will be notified prior to calibration.

A total of eight readings for inaccuracy and imprecision will be taken, four at the nominal volume and four at the minimum volume. The pipette will be labeled with the date of service, technician initials, next recommended calibration date, and serial number. You will also receive a full preventative maintenance report, listing of any replacement parts, and a Certificate of Calibration.

Level 3.0

Level 3.0 includes all of the services in Level 2.0 with a more extensive calibration. There are a total of 20 readings for inaccuracy and imprecision. Eight "As Found" readings, four at the nominal volume and four at the minimum volume, are included. After cleaning and preventative maintenance, 12 readings will be performed, four at the nominal volume, four at 50% of the nominal volume, and four at the minimum volume.

Calibration Service Levels

All service levels include email notification upon receipt, inspection, cleaning, calibration, new seals and o-rings as needed, service label, reminder service, 48 hour turnaround*, email return notification, and free return shipping.

	Level 1.0	Level 2.0	Level 3.0
Single channel	**7982-5851**	**7972-5851**	**7923-5851**
1-4	$30.00	$38.50	$43.00
5+	$25.00	$32.00	$36.00
Eight channel	**7982-5852**	**7972-5852**	**7923-5852**
1-4	$45.50	$66.00	$71.00
5+	$38.00	$55.00	$59.00
Twelve channel	**7982-5853**	**7972-5853**	**7923-5853**
1-4	$56.50	$79.00	$85.00
5+	$47.00	$66.00	$71.00
Preventative maintenance including:			
Complete inspection of lower housing	--	Yes	Yes
Leak test	--	Yes	Yes
Printed Certificate of Calibration	--	Yes	Yes
Printed service report	--	Yes	Yes
Inaccuracy and imprecision readings at nominal volume	4	4	4
Inaccuracy and imprecision readings at minimum volume	4	4	4
Inaccuracy and imprecision readings at 50% nominal volume	--	--	4
As found readings	--	--	8
Total readings	8	8	20
6-month warranty on replacement parts**	Yes	Yes	Yes
All original ErgoOne replacement parts	Yes	Yes	Yes

*Calibration turnaround time refers to standard business days, not including shipping time, and starts upon receipt of pipettes with completed decontamination form.
**Warranty on manufacturing defects. Excludes o-rings and seals.

Mail-In Service Information

Service order and decontamination forms can be downloaded from our website at www.usascientific.com/calibrationone. You may also call 800-522-8477 or ask your local representative for forms.

Please pack your pipettors carefully to prevent breakage during shipment to us. Choose a traceable shipping method and insure your package. Pipettes cannot be accepted for calibration or repair without the completed decontamination form. Please send your pipettes to the address below:

CalibrationOne
USA Scientific
346 SW 57th Avenue
Ocala, FL 34474

Prices and products subject to change without notice. See www.usascientific.com for current information.

Carousel stand

Eppendorf Research® plus

The ultralight Eppendorf Research plus pipette combines the highest precision and accuracy requirements with perfect ergonomics and improved flexibility.

The spring-loaded universal tip cone allows for uniform attachment forces with excellent tip fit. The ejection force can be as low as 3.6 newtons, depending on the size and force you use to apply the tip.

The control buttons and displays are positioned to ensure stress-free and intuitive operation. The volume adjustment wheel requires only a few turns to change from maximum to minimum volume.

Advanced materials and production methods make the Research plus extremely low in weight yet strong and fully autoclavable. The unique Fortron® piston offers high resistance to solvents and wear.

Research plus Single Channel $348.00
4031-2011 0.1-2.5 µl, dark gray button
4031-2020 0.5-10 µl, gray button
4031-2097 2-20 µl, light gray, micro tip cone
4031-2038 2-20 µl, yellow, standard tip cone
4031-2046 10-100 µl, yellow button
4031-2054 20-200 µl, yellow button
4031-2100 30-300 µl, orange button
4031-2062 100-1000 µl, blue button
4031-2070 0.5-5 ml, violet button
4031-2089 1-10 ml, turquoise button

Research plus Eight Channel $841.00
4031-2219 0.5-10 µl, gray button
4031-2235 10-100 µl, yellow button
4031-2251 30-300 µl, orange button

Research plus Twelve Channel $974.00
4031-2227 0.5-10 µl, gray button
4031-2243 10-100 µl, yellow button
4031-2260 30-300 µl, orange button

Carousel Stand

Holds up to six Research plus pipettes.

4044-4905 $139.00

Repeating Pipet

Do you need to pipet the same volumes over and over?

Speedy, precise assays are easy with the manual repeating pipet. Fill once and pipet up to up to 48 times depending on the volume and tip selected. The selection dial allows you to choose one of five delivery volumes per tip. (See the tip selection guide below for more information.) Positive displacement syringe tips ensure accuracy, even when handling high or low density solutions such as oils or alcohols.Includes one adapter for 25 and 50 ml tips.

Use with USA Scientific tips. Also accepts Eppendorf Combitips advanced® tips. Two year warranty.

4736-8025 $317.50

Tips for Repeating Pipets

Polyethylene piston and polypropylene cylinder withstand aggressive reagents. The piston is extended to minimize dead air volume and improve reagent delivery. USA Scientific brand tips fit the dispenser above and other common brands without automatic tip recognition. 25 and 50 ml tips require an adapter. One adapter is included with the Repeating Pipet; additional adapters are sold separately. (See Combitips advanced® tips on page A35 if you are using the Eppendorf Repeater® Plus.)

Non-Sterile, Bulk

4770-0050	0.5 ml (10-50 µl), 100/pack	$93.50
4772-0125	1.25 ml (25-125 µl), 100/pack	$93.50
4774-0250	2.5 ml (50-250 µl), 100/pack	$93.50
4776-0500	5.0 ml (100-500 µl), 100/pack	$93.50
4778-1250	12.5 ml (250-1250 µl), 100/pack	$93.50
4780-2500	25.0 ml (500-2500 µl), 100/pack	$115.75
4782-5000	50.0 ml (1000-5000 µl), 100/pack	$128.50
4798-2550	Adapter for 25 and 50 ml tips, 1/pack	$29.85

Sterile, Individually Wrapped

4784-0050	0.5 ml (10-50 µl), 100/pack	$116.75
4786-0125	1.25 ml (25-125 µl), 100/pack	$116.75
4788-0250	2.5 ml (50-250 µl), 100/pack	$116.75
4790-0500	5.0 ml (100-500 µl), 100/pack	$116.75
4792-1250	12.5 ml (250-1250 µl), 100/pack	$116.75
4794-2500	25.0 ml (500-2500 µl), 100/pack	$140.25
4796-5000	50.0 ml (1000-5000 µl), 100/pack	$152.00

TIP SELECTION GUIDE

Dispensing Volumes of Tips with the 4736-8025 Repeating Pipet

Selection Dial Setting	1	2	3	4	5
Maximum Pipetting Steps	48	23	15	11	8
0.5 ml tip	10 µl	20 µl	30 µl	40 µl	50 µl
1.25 ml tip	25 µl	50 µl	75 µl	100 µl	125 µl
2.5 ml tip	50 µl	100 µl	150 µl	200 µl	250 µl
5.0 ml tip	100 µl	200 µl	300 µl	400 µl	500 µl
12.5 ml tip	250 µl	500 µl	750 µl	1.0 ml	1.25 ml
25.0 ml tip	500 µl	1.0 ml	1.5 ml	2.0 ml	2.5 ml
50.0 ml tip	1.0 ml	2.0 ml	3.0 ml	4.0 ml	5.0 ml

Prices and products subject to change without notice. See www.usascientific.com for current information.

Repeater® Plus

- Eliminate errors with automatic tip recognition and digital volume display
- Twenty volume settings per tip reservoir
- Quick release tip ejection for safer handling
- Optional rack for hands-free tip attachment

Use the Eppendorf® Repeater Plus for quick and convenient repetitive dispensing. Volume selection is simple: snap in the tip, set the dial, and the dispensing volume is automatically displayed. Positive displacement tip ensures accuracy, even when handling viscous or high vapor pressure solutions. Combitips advanced® tips have a polyethylene plunger and polypropylene cylinder to withstand aggressive reagents. Requires Combitips advanced tips (see page A35). Two-year warranty.

4026-0201	Repeater Plus	$520.00
4026-0596	Repeater Plus wall mount holder	$31.00

Repeater® stream and Repeater® Xstream

- Electronic dispensing
- Programmable memory

Electronic Repeater stream and Xstream pipettors combine easy handling with a broad range of features. When used with Combitips advanced tips, the sensor automatically detects the tip and displays the selected volume. Dispenses from 1 µl to 50 ml. Choose the Repeater Xstream for performing titrations, sequential dispensing, and aspiration of supernatants. Each unit includes a charging adapter. Two-year warranty.

4046-0803	Repeater stream	$950.00
4046-0811	Repeater Xstream	$1140.00
4048-8018	Charging stand for Repeater stream/Xstream	$209.00

Combitips Advanced® Tips

Eppendorf Combitips advanced tips replace the Combitips plus® tips. New features such as color coding by volume, elongated tips, improved graduations, and new dispenser boxes make identification and handling easier. Polyethylene plunger and polypropylene cylinder withstands aggressive reagents; provides automatic tip recognition when used with Eppendorf Repeater Plus, Repeater stream, or Repeater Xstream. Available in nine volumes. Will also work with the Eppendorf Repeater and the USA Scientifc repeating pipet. 25 and 50 ml tips require an adapter.

Application Rack

Use the new Combitip Rack for single-handed application of dispenser tips. The rack holds up to 8 Combitips advanced in sizes ranging from 0.1 ml to 10 ml. The transparent tray allows easy identification of the color coded Combitips advanced tips.

4008-9758 $39.50

4008-9758

		NON-STERILE TIPS (BULK)		EPPENDORF BIOPUR®, STERILE, (INDIVIDUALLY WRAPPED)	
TIP VOLUME, COLOR CODE	QUANTITY	CATALOG NO.	PRICE	CATALOG NO.	PRICE
0.1 ml, white	100	4008-9405	$113.00	4008-9618	$161.00
0.2 ml, light blue	100	4008-9413	$113.00	4008-9626	$161.00
0.5 ml, purple	100	4008-9421	$113.00	4008-9634	$161.00
1.0 ml, yellow	100	4008-9430	$113.00	4008-9642	$161.00
2.5 ml, green	100	4008-9448	$113.00	4008-9650	$161.00
5.0 ml, blue	100	4008-9456	$113.00	4008-9669	$161.00
10 ml, orange	100	4008-9464	$113.00	4008-9677	$161.00
25 ml, red	100	4008-9472	$142.00	4008-9685	$184.00
50 ml, light gray	100	4008-9480	$142.00	4008-9693	$184.00
Adapter for 25 ml tips, red	1	4008-9715	$21.00	--	--
	7	--	--	4008-9731	$127.00
Adapter for 50 ml tips, gray	1	4008-9723	$21.00	--	--
	7	--	--	4008-9740	$127.00

Combitips advanced® Dispensing Volumes with Repeater Pipettes

TIP VOLUME	VOLUME MIN/MAX WITH REPEATER PLUS	VOLUME MIN/MAX WITH REPEATER STREAM/XSTREAM
0.1 ml	1 µl/20 µl	1 µl/100 µl
0.2 ml	2 µl/40 µl	2 µl/200 µl
0.5 ml	5 µl/100 µl	5 µl/500 µl
1.0 ml	10 µl/200 µl	10 µl/1 ml
2.5 ml	25 µl/500 µl	25 µl/2.5 ml
5.0 ml	50 µl/1 ml	50 µl/5 ml
10 ml	100 µl/2 ml	100 µl/10 ml
25 ml	250 µl/5 ml	250 µl/25 ml
50 ml	500 µl/10 ml	500 µl/50 ml

Prices and products subject to change without notice. See www.usascientific.com for current information.

Eppendorf Xplorer® Electronic Pipettes

Eppendorf Xplorer and Xplorer plus electronic pipettes are simple to program and comfortable to work with. The operation is intuitive and the design is based on the proven Eppendorf PhysioCare Concept®. Functions are easily selected on the dial, with a clearly arranged display and no sub-menus. Volume and speed can be adjusted precisely and reproducibly, and spring-loaded tip cones provide maximum sealing. All pipettes below include a charging adaptor. Optional charging stands are available.

Intuitive operating concept
- Aspirating and dispensing rocker: "Up is up and down is down™" principle
- Easy dial selection of all functions
- Clearly arranged color display
- No sub-menus
- Help function

Ergonomics
- Reduced weight
- Perfect balance
- Optimally angled pipette head
- Improved view and high resolution display
- Spring-loaded tip cone provides maximum tightness

Reliably reproducible results
- Tips always rest in the same position
- Volume & speed precisely and reproducibly adjustable

NEW! The Xplorer plus offers additional intelligent applications, including adjustable fixed volumes, programming of multiple modes in sequence, password protection, and a history of your last settings. It can even remind you when maintenance service is due.

Eppendorf Xplorer

Single Channel $730.00
4061-0015 0.5-10 µl, medium gray rocker
4061-0023 5-100 µl, yellow rocker
4061-0031 15-300 µl, orange rocker
4061-0040 50-1000 µl, blue rocker
4061-0058 0.25-5 ml, violet rocker
4061-0066 0.5-10 ml, turquoise rocker

Eight-Channel $1240.00
4061-0104 0.5-10 µl, medium gray rocker
4061-0120 5-100 µl, yellow rocker
4061-0147 15-300 µl, orange rocker
4061-0163 50-1200 µl, green rocker

Twelve-Channel $1570.00
4061-0112 0.5-10 µl, medium gray rocker
4061-0139 5-100 µl, yellow rocker
4061-0155 15-300 µl, orange rocker
4061-0171 50-1200 µl, green rocker

Eppendorf Xplorer plus

Single Channel $920.00
4061-0708 0.5-10 µl, medium gray rocker
4061-0716 5-100 µl, yellow rocker
4061-0724 15-300 µl, orange rocker
4061-0732 50-1000 µl, blue rocker
4061-0740 0.25-5 ml, violet rocker
4061-0759 0.5-10 ml, turquoise rocker

Eight-Channel $1570.00
4061-0767 0.5-10 µl, medium gray rocker
4061-0783 5-100 µl, yellow rocker
4061-0805 15-300 µl, orange rocker
4061-0821 50-1200 µl, green rocker

Twelve-Channel $1980.00
4061-0775 0.5-10 µl, medium gray rocker
4061-0791 5-100 µl, yellow rocker
4061-0813 15-300 µl, orange rocker
4061-0830 50-1200 µl, green rocker

Charging Stands
The pipettes listed above include a charging adapter only. Purchase of a charging stand is recommended for easier use and safe bench top storage.

4080-0000 Individual stand $244.00
4080-0026 4-place stand $720.00

Disposable Reservoirs

Sturdy reservoirs have reinforced sides for easier handling and an extra wide base for increased stability. The V-shaped troughs are graduated and have a narrow micro-channel for recovery of small volumes. Pour-back spouts at all corners help avoid spills when emptying. White polystyrene. Sterile reservoirs are certified RNase and DNase free and non-pyrogenic.

	1-9	10+
Bulk Reservoirs, Non-Sterile		
2321-2220 25 ml, 100/pack	$53.00	$47.50
2321-2520 50 ml, 100/pack	$53.00	$47.50
2321-1020 100 ml, 100/pack	$67.00	$60.00
Individually Wrapped Reservoirs, Sterile		
2321-2230 25 ml, 100/pack	$127.00	$114.00
2321-2530 50 ml, 100/pack	$127.00	$114.00
2321-1030 100 ml, 100/pack	$137.00	$123.50
Sleeve Packed Reservoirs, Sterile		
2321-2235 25 ml, 5/sleeve, 200/pack	$148.00	$133.00
2321-2535 50 ml, 5/sleeve, 200/pack	$148.00	$133.00
2321-1035 100 ml, 5/sleeve, 200/pack	$158.00	$142.50

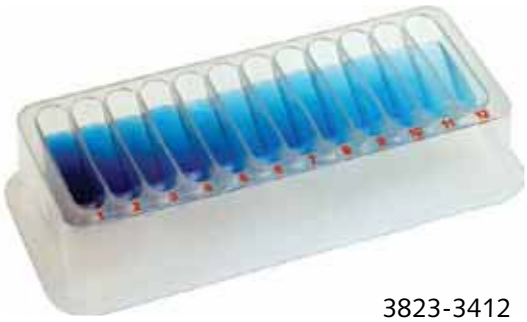
ChannelMate™

Save waste and storage space. ChannelMate combines a sturdy reusable base with clear polystyrene inserts to create a unique reservoir refill system.

Nested polystyrene inserts save up to 65% of the storage space required with other reservoirs. The system uses up to 40% less plastic than standard reservoirs and creates minimal waste.

ChannelMate inserts feature pour-back spouts in each corner and micro-channels in the base for better recovery with small volumes. Inserts may also be inverted and used as dust covers. The base features high-contrast volume graduations. Each case of ChannelMate reservoirs contains one reusable base and four sleeves of 50 inserts (200). DNase, RNase, and pyrogen free.

1306-2510 25 ml system, sterile, 200/pack	$100.00
1346-2510 25 ml reservoirs without base, sterile, 50/pack	$25.00
1306-2590 25 ml base only, 10/pack	$50.00
1306-1010 100 ml system, sterile, 200/pack	$100.00
1346-1010 100 ml reservoirs without base, sterile, 50/pack	$25.00
1306-1090 100 ml base only, 10/pack	$50.00

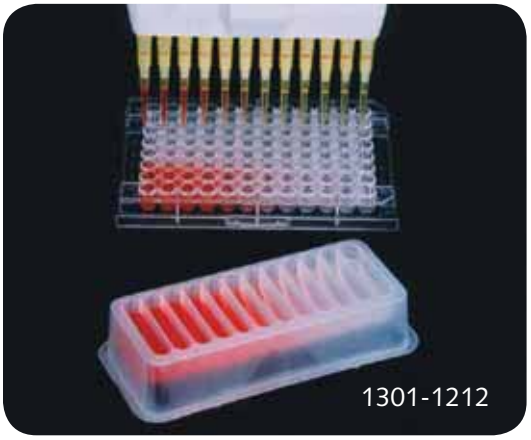


3823-3412

12-Well V-Bottom Reservoir

Pipet serial dilutions or different reagents simultaneously with multichannel pipettors. Each well holds up to 3 ml and is V-shaped for full sample withdrawal. Numbered wells ensure accurate sample reference. Individually wrapped with lid. Autoclavable polypropylene.

3823-3412	Non-sterile, 50/pack	$162.50
3823-3512	Sterile, 20/pack	$93.00



1301-1212

12-Well Round Bottom Reservoir

Reservoir with 12 rounded wells holds up to 5 ml per well. The 9 mm spacing is compatible with multichannel pipettors and 96-well plates. Autoclavable polypropylene. Individually wrapped (with lid) and sterilized.

1301-1212	Sterile, 20/pack	$105.50

2321-9620

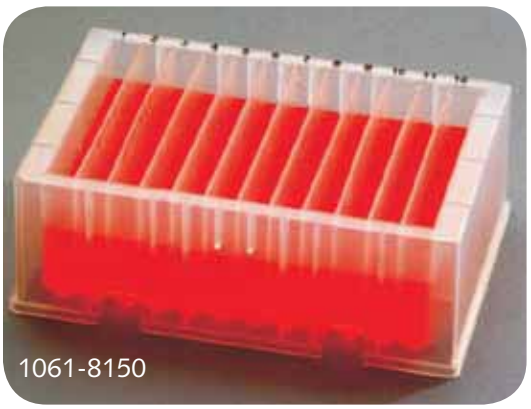
2323-8420

2321-0820

Automation Reservoir Refill System

Save space and reduce waste with refillable reservoirs for automated and high throughput systems. The sturdy reusable base has an SBS compatible footprint. 96-tip and 384-tip compatible inserts have inverted pyramid bottoms. Multichannel reservoirs have multiple guide channels for maximum recovery with 8- or 12-channel pipets. White high-impact polystyrene inserts are DNase, RNase, and DNA free. Each system comes with 100 inserts and 2 bases.

2321-9620	96-tip compatible, bulk, non-sterile	$99.00
2321-9630	96-tip compatible, individually wrapped, sterile	$119.00
2323-8420	384-tip compatible, bulk, non-sterile	$99.00
2323-8430	384-tip compatible, individually wrapped, sterile	$119.00
2321-0820	Multichannel, bulk, non-sterile	$99.00
2321-0830	Multichannel, individually wrapped, sterile	$119.00
2323-4653	Base only, black, non-sterile, 10/pack	$30.00



1061-8150

Automation Reservoir

Polypropylene 12-channel reservoir has an automation-standard footprint. Each section holds up to 22 ml and has eight dimples across the base for maximum recovery with multi-channel devices. Bold numeric markings identify the different channels. Measures 5" L x 3.4" W x 1.7" H (128 mm x 86 mm x 44 mm). Autoclavable. 5/pack.

1061-8150		$22.50

Serological Pipets

Polystyrene pipets are individually wrapped in paper-backed plastic wrappers. Volume indicators are large and easy to read; 5, 10, 25, and 50 ml pipets include ascending and descending numbers. Negative graduations provide extra capacity. Color coded by volume for quick identification.

High quality virgin polystyrene with polyester filter. Manufactured in an ISO 9001:9002 certified facility in the USA. Sterile, noncytotoxic, and certified RNase/DNase free and non-pyrogenic.

Individually Wrapped

1070-1210	1 ml, 100/sleeve, 1000/case	$183.75
1072-0510	2 ml, 100/sleeve, 500/case	$97.50
1075-0110	5 ml, 50/sleeve, 200/case	$55.25
1071-0810	10 ml, 50/sleeve, 200/case	$59.50
1072-5410	25 ml, 50/sleeve, 200/case	$131.50
1057-1010	50 ml, 25/sleeve, 100/case	$220.00

SEROLOGICAL PIPET SPECIFICATIONS

CATALOG NO.	DESCRIPTION	TOTAL VOLUME*	GRADUATIONS	COLOR CODE
1070-1210	1 ml	1.20 ml	0.10 ml	Yellow
1072-0510	2 ml	2.20 ml	0.01 ml	Green
1075-0110	5 ml	7.5 ml	0.10 ml	Blue
1071-0810	10 ml	13 ml	0.10 ml	Orange
1072-5410	25 ml	35 ml	0.20 ml	Red
1057-1010	50 ml	60 ml	0.50 ml	Purple

*Negative graduations account for additional capacity.

Pipet-Aid® XP and Pipet-Aid® XP2

The comfortable, compact Drummond® Portable Pipet-Aid XP is 25% lighter than the original Portable Pipet-Aid. Select one of three speeds for either filling or dispensing. Medium speed is suitable for most techniques. Fast speed is used for rapid filling of large pipets or breaking up cell clumps. Slow speed is ideal when using small pipets or for more precise delivery. Additional speed control is provided through pressure on the buttons. The Gravity Drain model replaces the fast empty mode with a gravity drain feature for use with volumetric pipets.

The cordless Pipet-Aid® XP2 features a quieter, more powerful precision pump and a new power supply that can be charged while in use.

Each model includes a removable stand, 110 V charger, and four self-locking filters. One-year warranty.

4440-0101	Pipet-Aid XP	$355.00
4440-5010	Pipet-Aid XP2	$355.00
4440-0102	Gravity Drain model Portable Pipet-Aid XP	$355.00
4440-0510	Self-locking 0.1 µm filters, 5/pack	$24.20

Prices and products subject to change without notice. See www.usascientific.com for current information.

4440-1000

4440-1100

4440-0105

4440-3000

4866-0020

4866-1320

Portable Pipet-Aid®

Convenient cordless pipet can operate over 2000 times (or up to 2 hours of continuous use) before recharging. Tissue culture nosepiece is designed for quick disconnect and easy assembly. Includes 110V charger and 4 replacement nosepiece filters. One-year warranty.

4440-1000	Portable Pipet-Aid	$317.00

Pipet-Aid®

Corded pipet controller never needs recharging. Choose the Pipet-Aid with the tissue culture (TC) nosepiece for preventing cross-contamination or the unit with air filtration to keep vacuum and pressure lines free of possible biohazards. 110 V. One-year warranty.

4440-1100	Pipet-Aid	$230.00
4440-1101	Pipet-Aid, with TC nosepiece	$260.00
4440-1110	Pipet-Aid, with air filter	$290.00
4440-1111	Pipet-Aid, with air filter and TC nosepiece	$322.00
4440-0510	Self-locking 0.1 µm filters, 5/pack	$24.20
4440-0060	Replacement biohazard filters, 2/pack	$38.70

Pipet-Aid® XL

Ergonomic design has a longer handle for less arm lift and reduced fatigue when working under hoods. Three-speed settings provide precise control. Includes wall hanger, charger, and replacement filters. Cordless. One-year warranty.

4440-0105	Pipet-Aid XL	$355.00

Pipet-Aid® Hood Mate®

Handles like a lightweight (4.3 oz.) cordless pipet, yet offers the convenience of continuous electric power. The pump attaches to the wall to save space and to allow the vacuum/pressure line to enter the handle from the top. The coiled line stays above the working surface and out of your way. Nine fill and empty speed settings with proportional fingertip control. One year warranty.

4440-3000	Pipet-Aid Hood Mate	$340.00

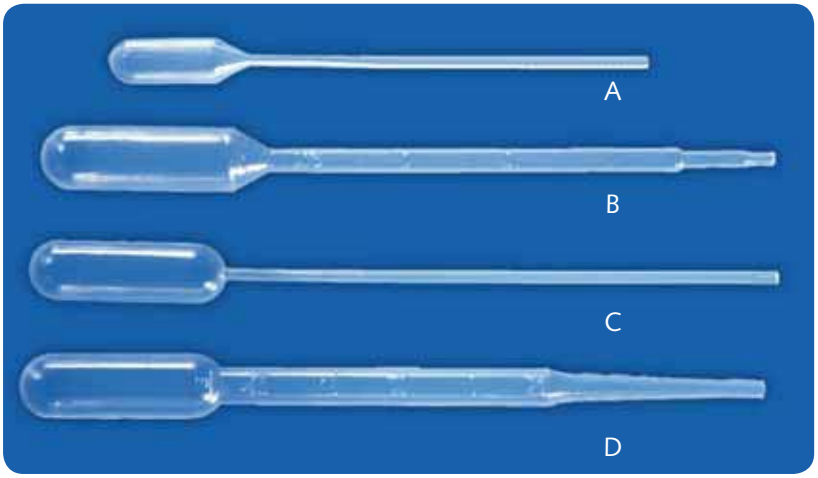
Powerpette® Plus

Lightweight, comfortable design features curved triggers that are easy on the fingertips. Aspirating and dispensing speeds are controlled through the speed switch and variable pressure on the triggers. Works up to 8 hours on a charge and has a low power warning light. May be used while recharging. The Powerpette Turbo has a faster motor to fill large pipets quickly. (25 ml in <3 seconds, 50 ml in <5 seconds.) The Turbo is not recommended for pipets of 5 ml or less. Each model includes a recharger, two-position bench stand, two 0.45 µm filters and one 0.22 µm filter. Autoclavable nose cone fits 1 to 100 ml pipets. One year warranty.

4866-0020	Powerpette Plus	$406.50
4866-1320	Powerpette Turbo	$409.50

Transfer Pipets

Polyethylene pipets will not shatter or break. Economical bulk bags are non-sterile. Selected pipets are available sterile, either individually wrapped or in sleeves of 20.



					NON-STERILE	STERILE	
STYLE	BULB DRAW	CAPACITY	LENGTH	GRADUATIONS	BULK	20/SLEEVE	INDIV. WRAP.
A	0.8 ml	1.5 ml	11.4 cm	0.5 ml	1022-3500 1000/pack $41.25	--	--
B	3.1 ml	5.0 ml	15.0 cm	0.25, 0.50, 0.75, 1.0 ml	1022-2500 500/pack $23.00	1022-2520 400/pack $39.50	1022-2510 400/pack $52.75
C	3.1 ml	4.0 ml	15.0 cm	None	1023-5500 500/pack $26.75	--	--
D	3.2 ml	7.0 ml	15.0 cm	0.5, 1.0, 2.0, 3.0 ml	1020-2500 500/pack $23.00	1020-2520 400/pack $39.50	1020-2510 400/pack $60.25

Acrylic Serological Pipet Racks

Four sections organize pipets or pipet cans for quick selection. Each shelf slides out for easy cleaning. Clear acrylic, ¼" thick. Standard width (3099-4000) measures 3⅝" W x 11¼" D x 16⅝" H (OD) and will hold most pipet cans. Wide model (3099-4400) measures 7½" W x 11¼" D x 16⅝" H (OD) and holds a full sleeve of pipets in each compartment.

3099-4000 Standard width rack $136.25
3099-4400 Wide rack (not shown) $152.75

3099-4000

ABS Pipet Rack

ABS plastic rack has four compartments and includes magnets for mounting onto metal fume hoods, refrigerators, etc. (May not be attracted to stainless steel.) Two side attachments hold pipet bulbs or controllers (not included). Measures 3.5" W x 11.5" D x 15.8" H.

3010-1604 ABS pipet rack, blue $129.00

3010-1604

Prices and products subject to change without notice. See www.usascientific.com for current information.

Angled Bench Top Stands

White acrylic racks support single channel pipettors. Compatible with Gilson Pipetman®, Eppendorf® Research, Eppendorf Reference, Oxford Benchmate®, Brand®, Sealpette, Biohit® Proline, and many other brands. Pipettors not included.

3099-0004*	Four place stand, 8⅜″ W x 7″ D x 9¾″ H	$73.25
3099-0806*	Six place stand, 12¼″ W x 7″ D x 9¾″ H	$102.25

Wall Mount Rack

Saves space on the bench top. Includes heavy-duty magnetic tape and two wood screws for hanging. White acrylic. Holds up to five ErgoOne®, Gilson Pipetman, Eppendorf Research, Eppendorf Reference, Oxford Benchmate, Labsystems Finnpipette, Sealpette, Biohit Proline, or similar pipettors. Measures 10¼″ W x 2¾″ D x 4″ H. Pipettors not included.

3096-0005 $63.00

Carousel Stand

Rotating carousel saves space on crowded bench tops. Holds four single channel Gilson Pipetman or Eppendorf Series 2000 Reference pipettors. Measures 6¼″ in diameter and 9″ H. Pipettors not included.

3096-0004* $67.00

Vertical Stand

Sturdy upright stand holds four single channel pipettors. Multichannel pipettors can be placed at either end. White acrylic. Best for Gilson Pipetman or Eppendorf Series 2000 Reference pipettors. Measures 10″ W x 4″ D x 10″ H. Pipettors not included.

3099-0006* $96.50

Linear Stand

Linear acrylic stand holds ErgoOne® and other brands of pipettors with curved support hooks. Supports both single and multichannel pipettors. Measures 11¾″ W x 6¼″ D X 10¾″ H. Pipettors not included.

3071-0560 $126.50

*Not for use with ErgoOne® pipettes. See page A26 for ErgoOne carousel stands.

B

TUBES AND CUVETTES

MICROCENTRIFUGE TUBES
CULTURE TUBES
CUVETTES
VIALS
SealRite®
RACKED TUBES
CENTRIFUGE TUBES
STORAGE TUBES
SPIN COLUMNS

USA SCIENTIFIC®

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Please see section C for PCR Tubes

SELECTION GUIDE FOR MICROCENTRIFUGE TUBES

	Seal-Rite® 1.5 ml*	Seal-Rite® 0.5 ml	Seal-Rite® 2.0 ml	Copolymer 1.5 ml*	Low Adhesion 1.5 ml*
Catalog Page	B4-B5	B4, B6	B4, B7	B9	B9
Non-sterile	1615-5500	1605-0000	1620-2700	1415-2500	1415-2600
Sterile	1615-5510	--	--	--	--
Centrifugation Limit	25,000** x g	25,000 x g	25,000 x g	20,000 x g	20,000 x g
Additional Features	Superior seal; available sterilized in smaller sleeve packs	Superior seal; large front tab for easier opening	Superior seal, rounded base for better pellets	Copolymer offers excellent clarity and easier opening	Hydrophobic properties reduce non-specific binding
Natural Color	1615-5500	1605-0000	1620-2700	1415-2500	1415-2600
Assorted Colors	1615-5599	1605-0099	1620-2799	1415-2508	1415-2608
Individual Colors	Available	Available	--	Available	--
Amber	1615-5507	1605-0007	1620-2707	1415-2507	--
RNase/DNase Free	Yes	Yes	Yes	Yes	Yes

	Low Adhesion 0.5 ml	Low Adhesion 2.0 ml	Lock-Top® 1.5 ml	Neon 1.5 ml*	Neon 0.5 ml
Catalog Page	B9	B9	B8	B8	B8
Non-sterile	1405-2600	1420-2600	1415-9100	1415-1448	1405-1548
Sterile	--	--	--	--	--
Centrifugation Limit	20,000 x g	20,000 x g	17,000 x g	20,000 x g	20,000 x g
Additional Features	Hydrophobic properties reduce binding	Hydrophobic properties reduce binding	Security tab on cap; color dots on assorted tube caps	Neon colors	Neon colors
Natural Color	1405-2600	1420-2600	1415-9100	--	--
Assorted Colors	1405-2608	--	1415-9199	1415-1448	1405-1548
Individual Colors	--	--	--	--	--
Amber	--	--	--	--	--
RNase/DNase Free	Yes	Yes	--	Yes	Yes

	Neon 2.0 ml	Snap Seal 1.5 ml*	Snap Seal 2.0 ml	Capless 1.5 ml	Capless 2.0 ml
Catalog Page	B8	B8	B8	B9	B9
Non-sterile	1420-2748	1680-5500	1480-2700	1414-5500	1414-2700
Sterile	--	--	--	--	--
Centrifugation Limit	20,000 x g	25,000 x g	20,000 x g	20,000 x g	20,000 x g
Additional Features	Neon colors	EPR O-ring	EPR O-ring	No caps	No caps
Natural Color	--	1680-5500	1480-2700	1414-5500	1414-2700
Assorted Colors	1420-2748	--	--	--	--
Individual Colors	--	--	--	--	--
Amber	--	--	--	--	--
RNase/DNase Free	Yes	--	--	Yes	Yes

*Total volume is 1.7 ml

**Sterile tubes have a limit of 20,000 x g

Choose the Right Microcentrifuge Tube for Your Needs

Microcentrifuge tubes can be specialized for specific tasks or designed for general purpose use. Consider whether you need a tube for just one task or if you would like a tube that will work throughout your entire experiment. Some of the common requirements for tubes are listed below.

Centrifugation

Microcentrifuge tubes are rated for maximum relative centrifugal forces (RCF). If you are spinning at or near the maximum, note the temperature and length of time of your experiments. Higher temperatures and longer run times create additional stresses during centrifugation. Also, as laboratory centrifuges become more powerful, watch that your tube's limits are keeping up with the forces of your new equipment. Excessive stress can cause deformation, cracking, or breakage if your tube is not strong enough.

If you need to resuspend a large pellet or have a very small pellet that is difficult to view in a 1.5 ml tube, consider the Seal-Rite 2.0 ml tube. The broad, rounded base creates an off-center, less compact pellet that is easier to resuspend.

Clarity

Pure polypropylene exhibits a slight opacity that varies with the thickness of the tube. Very clear tubes often contain clarifiers. These additives can leach into the contents of the tubes, especially when the tubes are subjected to higher temperatures, solvents, or lengthy experiments. When choosing a tube with clarifiers, consider the sensitivity of your experiments. Could the leaching of additives affect your results? Clarifiers can also weaken tubes and cause a decrease in RCF limits, especially after autoclaving.

Closing and Sealing

If you are using a lot of tubes, you'll want a tube that is not difficult to open or close. Opening and closing forces vary among tube brands and can be influenced by materials, cap design, production tolerances, and temperature. Broad, beveled cap rims help distribute opening forces for more comfortable handling.

A complete seal is critical if you are performing reactions, storing samples, or just trying to avoid evaporation. There is no standardized rating system for tube sealing, so how do you know which tube meets your needs? Before you judge the sealing performance on a sound or the visual appearance alone, consider the design of the tube. The cap plug and the interior of the tube must be created as a system. The entire outer ring of the cap plug and the inner ring of the tube must make contact without any gaps where leakage or evaporation could occur. When both surfaces are properly engineered and constructed, the cap slides into the sealing area with a defined resistance. No snapping sound is created. In fact, snapping during closing may indicate a deformity of one of the surfaces, leading to a rush of air through a gap between the cap plug and the interior of the tube. Thin, short cap plugs will deform more easily and provide less opportunity for complete surface contact.

A few simple experiments in your lab can test the seal of a tube. Add a liquid with a low surface energy to the tube and lay it on its side for a period of time to check for leaks. Or, pipet a defined volume of liquid into the tube, place it in a dry bath at 95°C, and examine the contents for evaporation. When boiling a tube, remember that absence of tube popping may indicate one of two situations - you either have a tube with a great seal or one with a small leak that vents out the pressure.

Labeling

Pure polypropylene tubes accept labels and marking pens more readily than tubes made with clarifiers, copolymers, or low adhesion formulations.

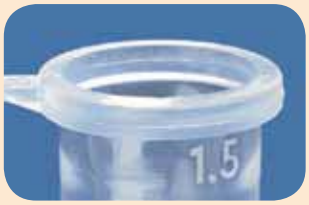
Packaging

Tubes should be securely packaged in plastic to protect their cleanliness. Tamper evident strips will let you know if anyone else in the lab may have opened the bag, and resealable zip tops help you avoid spills or contamination after the bag is opened. RNase, DNase, and DNA free certification is recommended for molecular biology applications. Sterilized tubes provide additional convenience and pyrogen-free testing.

Prices and products subject to change without notice. See www.usascientific.com for current information.

Broad, beveled cap rims provide more comfortable handling.

A long cap plug with a pronounced sealing rim resists deforming, provides more surface area for better sealing, and resists pressure buildup.



A well designed sealing zone ensures good contact with the cap plug for better resistance to pressure during boiling or storage.

Protect your samples with SealRite® microcentrifuge tubes.

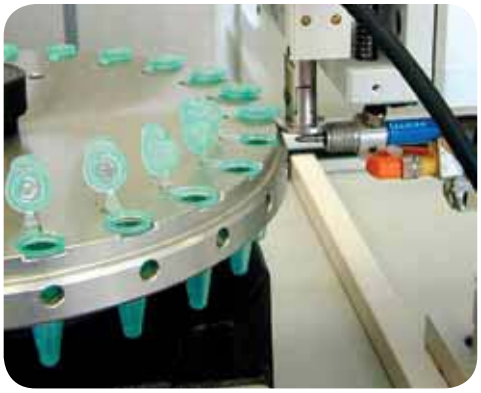
If sample security is a priority for your lab, try Seal-Rite brand tubes. Seal-Rite tubes are 100% pure virgin polypropylene. No processing additives such as slip agents, biocides, or antistatic agents are used during production. Your samples remain protected from potential bioactive contaminants.

Seal-Rite tubes have a precision sealing system that prevents evaporation, leakage, and accidental opening. They are rated for centrifugation up to 25,000 x g and packed in tamper evident, zip top bags for safe storage.

Seal-Rite Production and Quality Assurance
Seal-Rite production starts with highly polished molds that are routinely inspected, tested, and maintained to tight tolerances to ensure reproducibility and product performance.

Once produced, the tubes are visually and microscopically inspected to ensure proper surface quality and clean edges. Additional tests assure consistent and defined closing and opening forces. An evaporation test checks for leaks around the seal. The wall thickness is measured, and the tubes are centrifuged to ensure performance at high speeds.

Seal-Rite tubes are automation packed to ensure cleanliness. The tubes are certified free of RNase, DNase, and DNA. Autoclaving is not necessary for most molecular biology applications.



Seal-Rite tubes are tested for consistent, optimum sealing forces.

Tamper evident packaging

Can your tube pass all of these tests? Seal-Rite® can.

Centrifugation at 25,000 x g for extended periods	Pass
No clarifiers to affect results	Pass
Maintains a seal while boiling	Pass

While competing tubes may pass one or two tests, many will not pass all three. Why not stock your lab with a multi-tasking tube designed for all of your experiments?

SealRite®
1.5 ml Tubes

Seal-Rite tubes protect your samples with a precision sealing system that prevents evaporation, leakage, and accidental opening. The deep cap plug, prominent sealing ring, and extended sealing zone work together to eliminate gaps and ensure performance. Seal-Rite tubes stay closed during heating, freezing, centrifugation, and exposure to phenol/chloroform mixtures. The caps seal securely, yet are easy to open.

1.5 ml tubes have a flat cap with a beveled edge for comfortable use, a frosted writing surface, and 100 µl graduations. They are available in natural, blue, green, red, violet, yellow, and amber. Assorted color tubes have five colors packaged in individual bags.

Seal-Rite tubes are 100% pure virgin polypropylene. No processing additives such as slip agents, biocides, or antistatic agents are used during production.

- Certified free of detectable RNase, DNase, and DNA
- Flat caps for easy labeling
- Tested for centrifugation up to 25,000 x g
- Tamper evident zip top bags ensure cleanliness and provide safe and convenient storage

Seal-Rite® 1.5 ml Tubes

		1-9	10+
1615-5500	Natural, 500/bag	$18.85	$16.30
1615-5501	Blue, 500/bag	$18.85	$16.30
1615-5502	Green, 500/bag	$18.85	$16.30
1615-5504	Red, 500/bag	$18.85	$16.30
1615-5505	Violet, 500/bag	$18.85	$16.30
1615-5506	Yellow, 500/bag	$18.85	$16.30
1615-5599	Assorted, 5 bags of 100 (500)	$18.85	$16.30
1615-5507	Amber, 500/bag	$18.85	$16.30

Seal-Rite® tubes have a deep cap plug, prominent sealing ring, and extended sealing zone that work together to eliminate sample evaporation and accidental tube popping.

Sterile 1.5 ml Tubes

For added convenience, Seal-Rite 1.5 ml natural tubes are available sterilized. Each pack of 500 tubes contains 5 individually sealed bags of 100. Rated for centrifugation at 20,000 x g. Certified free of detectable RNase, DNase, DNA, and pyrogens.

		1-9	10+
1615-5510	Natural, 5 bags of 100 (500)	$23.75	$20.40

Prices and products subject to change without notice. See www.usascientific.com for current information.

1605-0000

SealRite®

0.5 ml Tubes

Seal-Rite tubes protect your samples with a precision sealing system that prevents evaporation, leakage, and accidental opening. The deep cap plug, prominent sealing ring, and extended sealing zone work together to eliminate gaps and ensure performance. Seal-Rite tubes stay closed during heating, freezing, centrifugation, and exposure to phenol/ chloroform mixtures. The caps seal securely, yet are easy to open.

0.5 ml tubes have a flat cap with a beveled edge for comfortable use, a frosted writing surface, and 100 µl graduations. Available in natural, blue, green, red, violet, yellow, and amber. Assorted color tubes have five colors packaged in individual bags.

Seal-Rite tubes are 100% pure virgin polypropylene. No processing additives such as slip agents, biocides, or antistatic agents are used during production.

- Certified free of detectable RNase, DNase, and DNA
- Flat caps for easy labeling
- Tested for centrifugation up to 25,000 x g
- Tamper evident zip top bags ensure cleanliness and provide safe and convenient storage

Seal-Rite® 0.5 ml Tubes

		1-9	10+
1605-0000	Natural, 5 bags of 200 (1000)	$35.25	$29.85
1605-0001	Blue, 1000/bag	$35.25	$29.85
1605-0002	Green, 1000/bag	$35.25	$29.85
1605-0004	Red, 1000/bag	$35.25	$29.85
1605-0005	Violet, 1000/bag	$35.25	$29.85
1605-0006	Yellow, 1000/bag	$35.25	$29.85
1605-0099	Assorted, 5 bags of 200 (1000)	$35.25	$29.85
1605-0007	Amber, 1000/bag	$35.25	$29.85

Assorted colors

SealRite®

2.0 ml Tubes

Seal-Rite tubes protect your samples with a precision sealing system that prevents evaporation, leakage, and accidental opening. The deep cap plug, prominent sealing ring, and extended sealing zone work together to eliminate gaps and ensure performance. Seal-Rite tubes stay closed during heating, freezing, centrifugation, and exposure to phenol/chloroform mixtures. The caps seal securely, yet are easy to open.

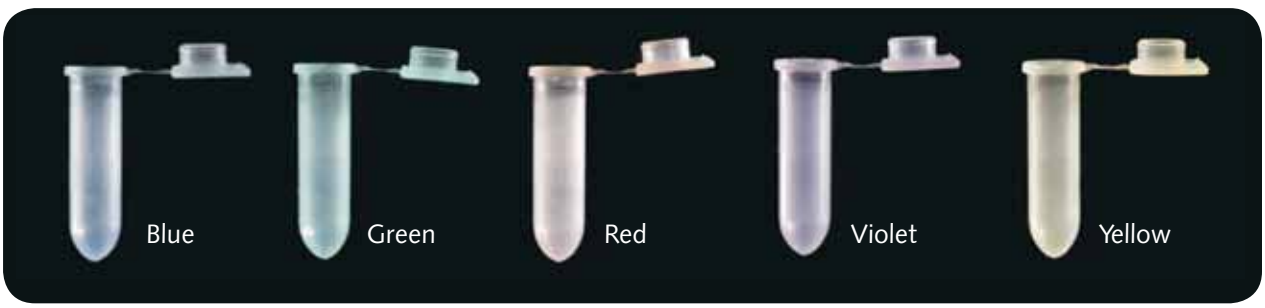
The rounded base of a Seal-Rite 2.0 ml tube produces a larger, more visible pellet that is easier to resuspend and is ideal for bacteria or cells. Each tube has a flat cap with a beveled edge for comfortable use, a frosted writing surface, and 100 µl graduations. Compatible with most mini-prep kits. Available in natural, assorted colors, and amber. Assorted color tubes have five colors packaged in individual bags.

Seal-Rite tubes are 100% pure virgin polypropylene. No processing additives such as slip agents, biocides, or antistatic agents are used during production.

- Certified free of detectable RNase, DNase, and DNA
- Flat caps for easy labeling
- Tested for centrifugation up to 25,000 x g
- Tamper evident zip top bags ensure cleanliness and provide safe and convenient storage
- Rounded base creates a larger pellet that is easier to view and resuspend

Seal-Rite® 2.0 ml Tubes

		1-9	10+
1620-2700	Natural, 500/bag	$23.75	$20.40
1620-2799	Assorted, 5 bags of 100 (500)	$23.75	$20.40
1620-2707	Amber, 500/bag	$23.75	$20.40



Assorted colors

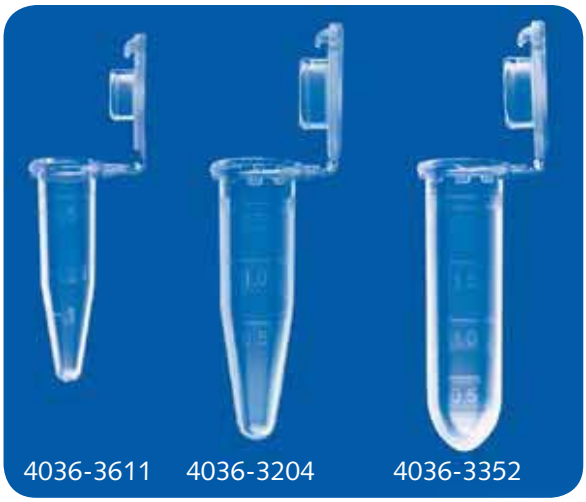
Prices and products subject to change without notice. See www.usascientific.com for current information.

1.5 ml Lock-Top® Tube

Lock-Top tube caps have a security tab that helps prevent cross-contamination of the cap plug or your gloves. Withstands 17,000 x g. Maximum recommended temperature is 85°C. (We recommend Seal-Rite® tubes when boiling is required.) Mixed color tubes have color on the top only; the rest of the tube is natural. Includes blue, green, orange, red, yellow, and white. Polypropylene.

- Color code with maximum sample visibility
- Frosted side writing area
- Graduations at 0.1, 0.5, and 1.0 ml

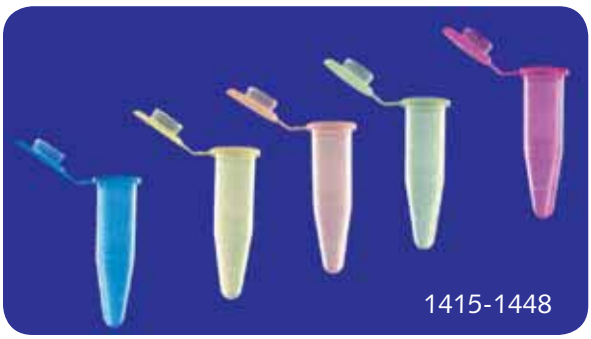
1415-9100	Natural, 500/bag	$18.50
1415-9199	Assorted colors, 500/bag	$21.00



Eppendorf Safe-Lock Tubes

Eppendorf Safe-Lock tubes provide outstanding stability, perfect sealing and protection from evaporation and accidental opening. Large frosted lid and labeling surface; graduated. Exceptional centrifugation stability of up to 30,000 x g (70,000 x g in form-fitting rotor) prevents tube breakage. Tubes are autoclavable and with a functional temperature range of -86°C to 100°C. Virgin polypropylene with no slip agents, plasticizers, or biocides. Standard quality listed; also available in batch-certified Eppendorf® PCR clean, Biopur® quality, Protein LoBind, and DNA/RNA LoBind quality (see usascientific.com for more information).

4036-3611	0.5 ml Eppendorf Safe-Lock tube, 500/box	$51.50
4036-3204	1.5 ml Eppendorf Safe-Lock tube, 500/box	$47.70
4036-3352	2.0 ml Eppendorf Safe-Lock tube, 500/box	$51.50



Neon Tubes

Flat cap tube is suitable for boiling and comes in a mixed pack of neon colors (blue, green, orange, red, and yellow). Frosted writing surface with 100 µl graduations. Centrifugation limit of 20,000 x g. 100% virgin polypropylene. Certified RNase, DNase, and DNA free. Tested pyrogen free.

		1-9	10+
1405-1548	0.5 ml, 1000/bag	$31.00	$26.75
1415-1448	1.5 ml, 500/bag	$19.00	$16.25
1420-2748	2.0 ml, 500/bag	$22.75	$19.50

Snap Seal Tubes

Snap Seal tubes have an ethylene propylene rubber (EPR) O-ring on the cap plug that creates a barrier between the closed cap and the rim of the tube. Frosted writing surface with graduations. 1480-2700 has a centrifugation limit of 25,000 x g. 1480-2700 has a limit of 20,000 X g. Natural, 100% virgin polypropylene.

		1-9	10+
1680-5500	1.5 ml, 100/bag	$16.25	$14.00
1480-2700	2.0 ml, 100/bag	$15.25	$13.50

1.5 ml Graduated Tube

Clear copolymer* polypropylene tube has the same chemical resistance as polypropylene and is acceptable for applications involving limited boiling. Easy opening cap snaps into place when closed and has a comfortable beveled lip. Frosted writing surface; 100 µl graduations. Withstands centrifugation up to 20,000 x g.

- Certified RNase, DNase, and DNA free
- Tested pyrogen free
- Excellent optical clarity
- Easy opening cap

		1-9	10+
1415-2500	Natural, 500/bag	$18.50	$15.75
1415-2501	Blue, 500/bag	$18.50	$15.75
1415-2502	Green, 500/bag	$18.50	$15.75
1415-2503	Orange, 500/bag	$18.50	$15.75
1415-2504	Red, 500/bag	$18.50	$15.75
1415-2505	Violet, 500/bag	$18.50	$15.75
1415-2506	Yellow, 500/bag	$18.50	$15.75
1415-2508	Mixed colors**, 500/bag	$18.50	$15.75
1415-2507	Amber, 500/bag	$18.50	$15.75

**Mixed colors include blue, green, orange, red, yellow, and violet.

Low Adhesion Tubes

Extremely hydrophobic, low adhesion tubes reduce non-specific binding of RNA, DNA, or protein. Easy-opening cap has a comfortable beveled lip. Frosted writing surface on both the side and the cap for easy labeling. Proprietary low adhesion virgin polypropylene; rated for 20,000 x g. Natural color only.

- Certified RNase, DNase, and DNA free
- Tested pyrogen free
- 100 µl graduations
- Optically clear

		1-9	10+
1405-2600	0.5 ml, 500/bag	$21.50	$18.50
1415-2600	1.5 ml, 500/bag	$24.00	$20.75
1420-2600	2.0 ml, 500/bag	$25.75	$22.25

Tubes without Caps

Tubes without caps eliminate the tedious job of cutting caps off tubes one by one. Recommended for column fractions, vacuum concentration, and other procedures where caps interfere. Natural polypropylene; rated for 20,000 x g. Certified RNase, DNase, and DNA free; tested pyrogen free.

		1-9	10+
1414-5500	1.5 ml, 1000/bag	$29.75	$25.50
1414-2700	2.0 ml, 500/bag	$17.00	$14.50

*Copolymer polypropylene is a polypropylene chain with an ethylene monomer compound added for increased clarity and flexibility.

5 ml Microcentrifuge Tubes

5.0 ml graduated polypropylene tube is compatible with many centrifuge rotors that accommodate 15 ml tubes. Flat cap with frosted marking area. Withstands up to 5,000 x g, boiling, freezing (-90°C), and autoclaving (120°C for 15 minutes at 15 psi). 250/bag.

3882-7600	Natural	$84.00
3882-7700	Blue	$84.00
3882-7800	Yellow	$84.00
3882-7900	Green	$84.00
3882-8000	Rose	$84.00

Microtube Pestles

Homogenize cells or re-suspend pellets. Certified free of detectable RNase, DNase, and DNA, and tested pyrogen free. Virgin polypropylene. Each pack contains 10 bags of 10 (100). Autoclavable.

1415-5390 is recommended for the following 1.5 ml tubes: 1615-5500, 1415-2500, 1415-1448, and 1415-2600.

1405-4390 is recommended for the following 0.5 ml tubes: 1605-0000, 1405-2600, and 1405-1548.

		1-9	10+
1415-5390	1.5 ml tube pestles	$66.00	$56.50
1405-4390	0.5 ml tube pestles	$66.00	$56.50

Sherlock Tube Closures

Secures microcentrifuge tube caps for boiling. Fits USA Scientific 1415-2500, 1415-2600, 1420-2600, 1415-1448 and 1420-2748 tubes. (Not for use with Seal-Rite® tubes.) Mixed colors. 100/bag. Polypropylene.

1415-1508 $24.50

Tube Openers

Need help opening difficult microcentifuge tubes? Handy lever prevents sore thumbs. Also helps avoid contamination of your gloves if samples are radioactive or hazardous. Mixed colors, 10/bag. Polypropylene.

1400-1508 $7.25

Spin-50 Mini-Column

Purify DNA longer than 20 base pairs with ready-to-use mini-columns containing Sephadex® G-50. Spin-50 mini-columns are hydrated with either TE buffer (10 mM Tris, 1 mM EDTA, pH 8.0) or water. Columns with TE buffer have a green color dot on the top of the tube; columns with water have a blue dot. The hydrating buffer may be replaced with another buffer if required. Columns without separating media or buffer are also available for custom applications. 100 columns per pack.

Use Spin-50 columns to:

- Separate excess dye terminators from sequencing reactions
- Clean up PCR reactions
- Purify DNA before microarray spotting
- Remove unwanted salts and detergents
- Remove unincorporated radionucleotides from probes

1415-1601	Mini-column with water	$149.00
1415-1602	Mini-column with TE buffer	$149.00
1415-0600	Mini-column without media or buffer	$60.00

Tough-Spots®

Convenient labels withstand temperatures from -196°C to +80°C without peeling or becoming brittle. Vinyl; 1000/roll.

9185-0500, 1/2" for 1.5-2.0 ml tubes, white	$25.00
9185-05XX*, 1/2" for 1.5-2.0 ml tubes, colors	$25.00
9185-0000, 3/8" for 0.5 ml tubes, white	$25.00
9185-00XX*, 3/8" for 0.5 ml tubes, colors	$25.00

*To order a color replace XX with 01=blue, 02=green, 03=orange, 04=red, 05=violet, 06=yellow, 07=pink, 14=maroon, 16=gold, 17=coffee, or 18=silver.

Tough-Tags®

Convenient labels withstand autoclaving, boiling, freezing to -40°C, or heating to 121°C without peeling or cracking. Polyester; 1000/roll.

9187-1000, 1.28" x 0.5" for 1.5-2.0 ml tubes, white	$25.00
9187-100X**, 1.28" x 0.5" for 1.5-2.0 ml tubes, colors	$31.50
9188-1000, 0.94" x 0.5" for 0.5 ml tubes, white	$25.00
9188-100X**, 0.94" x 0.5" for 0.5 ml tubes, colors	$29.00

** To order a color replace X with 1=blue, 2=green, 3=orange, 4=red, 6=yellow.

Note: Tubes must be dry when applying labels. Labels may not adhere well if tubes are not pure polypropylene or if tubes contain silicone or other additives.

USA Scientific offers a complete selection of labels for tubes, vials, plates, slides, and other vessels. Please see Pages D2-D8 for more information.

Saf-T-Seal™ Screw Cap Tubes

Use Saf-T-Seal tubes for vapor-phase liquid nitrogen storage, -80°C freezer storage, boiling, autoclaving, and centrifugation up to 20,000 x g. Deep external threads protect against sample loss and seal failure. An interior "U" channel in the cap keeps the ethylene propylene rubber (EPR) O-ring in place as the cap is tightened. 100% virgin polypropylene. Caps are available in natural, individual, or mixed colors. Mixed colors include blue, green, orange, red, violet, and yellow.

- Certified RNase, DNase, and DNA free
- Tested pyrogen free
- Autoclavable

Self-Standing Tubes

Self-standing tubes have an inner conical base and an outer skirt. Natural and amber 2.0 ml tubes have graduations and a writing surface; 0.5 ml and 1.5 ml tubes have no markings. The black 2.0 ml tube has a ribbed base without markings. Each pack has 500 tubes and 500 caps.

Black tubes with black caps

1420-9709

1420-9707 Amber

Natural color self-standing tubes		**1-9**	**10+**
1405-9700*	0.5 ml, natural caps	$67.00	$51.00
1405-9799	0.5 ml, mixed color caps	$68.25	$52.00
1415-9700*	1.5 ml, natural caps	$67.00	$51.00
1415-9799	1.5 ml, mixed color caps	$68.25	$52.00
1420-9700*	2.0 ml, natural caps	$67.00	$51.00
1420-9799	2.0 ml, mixed color caps	$67.00	$51.00

Light blocking self-standing tubes		**1-9**	**10+**
1405-9707	0.5 ml, amber tubes and caps	$68.25	$52.00
1415-9707	1.5 ml, amber tubes and caps	$68.25	$52.00
1420-9707	2.0 ml, amber tubes and caps	$68.25	$52.00
1420-9709	2.0 ml, black tubes and caps	$68.25	$52.00

Conical Base Tubes

Conical tubes are graduated and have writing surfaces. Each pack has 500 tubes and 500 caps.

1415-8707

Natural color conical-base tubes		**1-9**	**10+**
1415-8700*	1.5 ml, natural caps	$67.00	$51.00
1415-8799	1.5 ml, mixed color caps	$68.25	$52.00
1420-8700*	2.0 ml, natural caps	$67.00	$51.00
1420-8799	2.0 ml, mixed color caps	$68.25	$52.00

Light blocking conical-base tubes		**1-9**	**10+**
1415-8707	1.5 ml, amber caps	$68.25	$52.00
1420-8707	2.0 ml, amber caps	$68.25	$52.00

*To order caps in individual colors, replace the last "0" with: 1=blue, 2=green, 3=orange, 4=red, 5=violet, or 6=yellow.

Integrated TPE Saf-T-Seal™ Tubes

Screw caps have integrated TPE seals that will never slip out of place. TPE grips are molded into the outer edge of the polypropylene cap for secure handling under tough conditions.

Use Saf-T-Seal tubes for vapor-phase liquid nitrogen storage, -80°C freezer storage, boiling, autoclaving, and centrifugation up to 20,000 x g. Natural color polypropylene tubes are available with natural or color TPE/polypropylene caps. Certified RNase, DNase, and DNA free. Tested pyrogen free.

Self-Standing Tubes

Self-standing tubes have an inner conical base and an outer skirt. 2.0 ml tubes have graduations and a writing surface; 0.5 ml and 1.5 ml tubes have no markings.

		1-9	10+
1405-9300*	0.5 ml tubes with natural caps, 500/pack	$67.00	$51.00
1415-9300*	1.5 ml tubes with natural caps, 500/pack	$67.00	$51.00
1420-9300*	2.0 ml tubes with natural caps, 500/pack	$67.00	$51.00

Conical Base Tubes

Conical tubes are graduated and have writing surfaces.

		1-9	10+
1415-8300*	1.5 ml tubes with natural caps, 500/pack	$67.00	$51.00
1420-8300*	2.0 ml tubes with natural caps, 500/pack	$67.00	$51.00

*To order integrated TPE caps with colors, replace the last "00" with: 01=blue, 02=green, 03=orange, 04=red, 05=violet, 06=yellow, 08=white, or 99=mixed. Mixed colors include blue, green, orange, red, violet, and yellow.

Impact Resistant Screw Cap Tubes

Self-standing 2.0 ml screw cap tube developed for bead beating extractions or homogenization. Specially formulated polypropylene blend improves elasticity for increased durability. New base design fits most gripper racks for one-handed cap application. Certified RNase, DNase, and DNA free. Tested pyrogen free.

1420-9600	Pack of 200	$78.25

Sterile Screw Cap Tubes

Each pack of sterile screw cap tubes contains ten self-standing, tamper evident resealable bags with 50 capped tubes (500 total). Natural color caps and tubes.

		1-9	10+
1405-9710	0.5 ml self-standing tube, sterile	$102.50	$92.50
1415-9710	1.5 ml self-standing tube, sterile	$102.50	$92.50
1420-9710	2.0 ml self-standing tube, sterile	$102.50	$92.50
1415-8710	1.5 ml conical base tube, sterile	$102.50	$92.50
1420-8710	2.0 ml conical base tube, sterile	$102.50	$92.50

*Copolymer is a polypropylene chain with an ethylene monomer compound added for increased clarity and flexibility.

Prices and products subject to change without notice. See www.usascientific.com for current information.

Cap Inserts

Self-standing resealable bags.

ArcticIce Cryogenic Tubes

ArcticIce tubes have high contrast black 100 µl graduations and large white labeling surfaces. Internal thread tube caps have silicon-rubber o-rings for use in vapor phase liquid nitrogen. External thread tube caps have a flexible sealing lip and help reduce contamination while handling. Self-standing tubes have a star-shaped base for one-handed use with support racks. All tubes are sterile and are made in the USA from medical grade polypropylene with HDPE caps. USP Class VI approved.

ArcticIce tubes are supplied in convenient self-standing, tamper evident resealable bags and certified RNase, DNase, DNA free and non-pyrogenic. They fit most racks designed for cryogenic tubes, including the 5680-2501 rack listed below. Color cap inserts aid sample differentiation (not for use with 1418-8310). Assortment insert pack includes blue, green, red, yellow, white, brown, orange, gray, violet, and pink.

Self-standing Base, 50/pack, Sterile	**1-9**	**10+**
1410-7410 1.0 ml, internal thread, V-bottom, sterile	$20.00	$18.25
1418-7410 1.8 ml, internal thread, U-bottom, sterile	$20.00	$18.25
1436-7410 3.6 ml, internal thread, U-bottom, sterile	$22.50	$20.50
1445-7410 4.5 ml, internal thread, U-bottom, sterile	$25.50	$23.00
1410-7310 1.0 ml, external thread, V-bottom, sterile	$20.00	$18.25
1418-7310 1.8 ml, external thread, U-bottom, sterile	$20.00	$18.25
1445-7310 4.5 ml, external thread, U-bottom, sterile	$25.50	$23.00
Round Bottom Base, 50/pack, Sterile		
1418-8410 1.8 ml, internal thread, U-bottom, sterile	$20.00	$18.25
1436-8410 3.6 ml, internal thread, U-bottom, sterile	$22.50	$20.50
1445-8410 4.5 ml, internal thread, U-bottom, sterile	$25.50	$23.00
1418-8310 1.8 ml, external thread, U-bottom, sterile	$20.00	$18.25
Cap Inserts		
1406-0599 Assorted colors, 500/pack	$17.25	$15.50
1426-05xx* Individual colors, 2000/case	$68.25	$61.50

*To order a color replace XX with 01=blue, 02=green, 03=orange, 04=red, 05=violet, 06=yellow, 07= brown, 08=white, 24=pink, or 29=gray.

Cryo.s™

Greiner Bio-One Cryo.s™ have internal threads and silicon gaskets. The vials are graduated and have large, white labeling fields. Self-standing vials have a star foot and can be opened or closed with one hand when placed in the optional support rack. Polypropylene; certified RNase and DNase free and nonpyrogenic and packed in resealable bags. Sterile.

Cryo.s are also available with 2D barcodes or high resolution linear barcodes. Please call 1-800-522-8477 for information.

CATALOG NO.	VOLUME	INTERNAL SHAPE	SELF-STANDING	CAP INSERTS	DIMENSIONS	QUANTITY SLEEVE/CASE	PRICE
5612-3263	1.0 ml	V-bottom	Yes	150	12.5 X 32 mm	100/500	$198.25
5612-2263	2.0 ml	U-bottom	Yes	150	12.5 x 38 mm	100/500	$220.25
5612-4263	5.0 ml	U-bottom	--	100	12.5 x 78 mm	50/300	$146.75
5680-2501	Support rack for 40 tubes, blue, with star foot lock					1	$20.75
5630-4171	Additional white cap inserts					50	$33.00

15 ml Conical Centrifuge Tubes

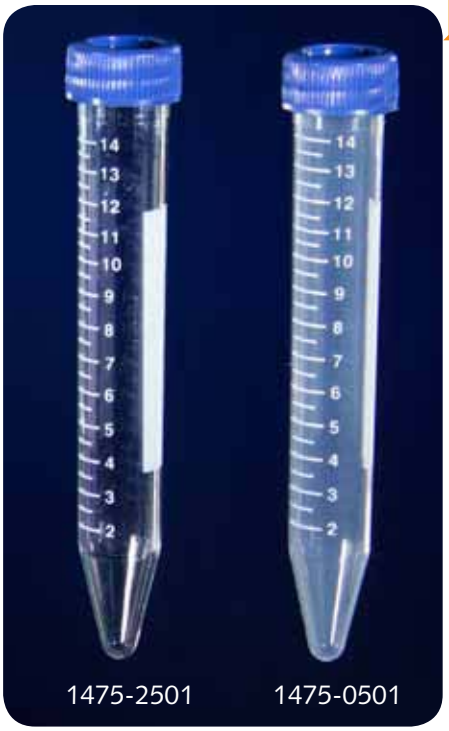
Conical screw cap centrifuge tubes have a large white labeling area and easy-to-read graduations. High density polyethylene caps have sealing rings for a leak-proof seal. Sterile tubes have caps applied; caps for non-sterile tubes are included in separate bags. 500 tubes per case.

Copolymer Polypropylene Tubes
High clarity copolymer* polypropylene tubes withstand 6400 x g and have a temperature range of -40°C to +120°C. 22 x 119 mm.

		1-9	10+
1475-0501	15 ml, 500/bag, non-sterile	$82.25	$74.25
1475-0511	15 ml, 20 bags of 25, sterile	$101.75	$91.75
1475-1611	15 ml, 50/rack, 10 racks/case, sterile	$117.25	$105.75

Polystyrene Tubes
High clarity polystyrene tubes withstand 1800 x g and have a temperature range of +20°C to +70°C. 22 x 119 mm.

		1-9	10+
1475-2501	15 ml, 500/bag, non-sterile	$79.25	$71.50
1475-2610	15 ml, 50/rack, 10 racks/case, sterile	$114.75	$103.50



50 ml Copolymer Tubes

Conical screw cap centrifuge tubes have a large white labeling area and easy-to-read graduations. High density polyethylene cap has a sealing ring for a leak-proof seal and is flat for easy labeling. Copolymer* polypropylene offers excellent clarity and strength and has the same chemical resistance as polypropylene. Withstands 10,000 x g and has a temperature range of -40°C to +120°C. 34 x 117 mm. 500 tubes per case.

		1-9	10+
1500-1200	50 ml, 500/bag, non-sterile	$123.00	$110.75
1500-1211	50 ml, 20 bags of 25, sterile	$145.25	$128.25
1500-1811	50 ml, 25/rack, 20 racks/case, sterile	$161.25	$145.25

*Copolymer polypropylene is a polypropylene chain with an ethylene monomer compound added for increased clarity and flexibility.

Amber Conical Centrifuge Tubes

Do you wrap foil around conical tubes? Try our light blocking tubes for more secure protection and easier storage. Amber polypropylene tubes significantly reduce light penetration. Both 15 and 50 ml tubes are graduated and have large labeling areas. In supported rotors, the 15 ml tubes are rated up to 15,000 x g; 50 ml tubes are rated at 7000 x g. RNase, DNase, DNA, and pyrogen free.

5618-8283P	15 ml, 50/rack, one rack, sterile	$19.75
5618-8283	15 ml, 50/rack, 10 racks/case (500), sterile	$178.75
5618-8280	15 ml, 10 bags of 100 (1000), sterile	$334.75
5622-7283P	50 ml, 25/rack, one rack, sterile	$12.25
5622-7283	50 ml, 25/rack, 12 racks/case (300), sterile	$138.50
5622-7280	50 ml, 25 bags of 20 (500), sterile	$213.25

Prices and products subject to change without notice. See www.usascientific.com for current information.

12 X 75 mm Tubes

Polypropylene tubes are resistant to many chemicals and are autoclavable. Polystyrene tubes offer glass-like clarity. Sterilized tubes include a dual position polyethylene cap for gas exchange or sealed storage.

Dual position polyethylene caps protect tube contents while allowing gas exchange. Close completely for sealed storage. Natural color.

Polyethylene fluted plug caps provide a tight closure for leak-proof storage. Natural color.

		1-9	10+
Polypropylene 12 x 75 mm Tubes			
1450-0810	Tubes with caps, 20 bags of 25 (500), sterile	$83.75	$75.50
1450-0000	Tubes without caps, 1000/bag, non-sterile	$30.25	$27.25
Polystyrene 12 x 75 mm Tubes			
1450-2810	Tubes with caps, 20 bags of 25 (500), sterile	$77.25	$69.75
1450-2000	Tubes without caps, 1000/bag, non-sterile	$31.50	$28.50
Caps for 12 x 75 mm Tubes			
1494-1030	Dual position cap, non-sterile, 1000/bag	$22.75	$20.50
1494-0000	Plug cap, non-sterile, 1000/bag	$42.50	$38.00

17 X 100 mm Tubes

Polypropylene tubes are resistant to many chemicals and are autoclavable. Polystyrene tubes offer glass-like clarity. Both are graduated in 1 ml increments. Sterilized tubes include a dual position polyethylene cap.

Dual position polyethylene caps protect tube contents while allowing gas exchange. Close completely for sealed storage. Natural color.

Polyethylene fluted plug caps provide a tight closure for leak-proof storage. White.

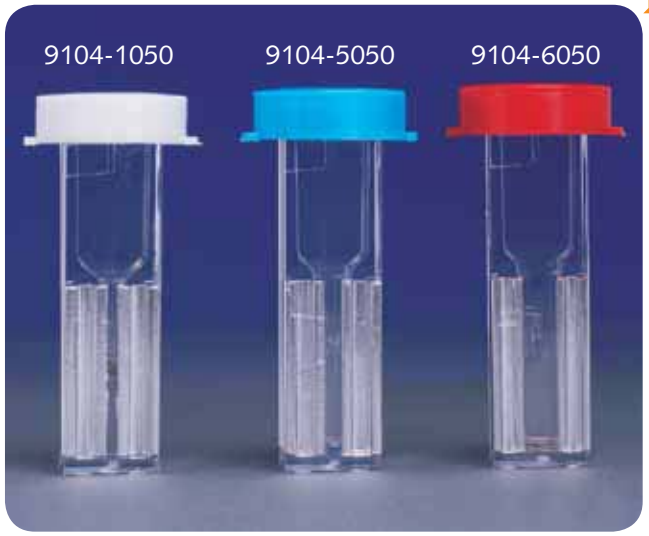
		1-9	10+
Polypropylene 17 x 100 mm Tubes			
1485-0810	Tubes with caps, 20 bags of 25 (500), sterile	$96.50	$87.00
1485-0000	Tubes without caps, 1000/bag, non-sterile	$63.25	$57.00
Polystyrene 17 x 100 mm Tubes			
1485-2810	Tubes with caps, 20 bags of 25 (500), sterile	$73.00	$65.75
1485-2000	Tubes without caps, 1000/bag, non-sterile	$71.25	$64.25
Caps for 17 x 100 mm Tubes			
1485-1030	Dual position cap, non-sterile, 1000/bag	$38.25	$34.50
1485-1090	Plug cap, non-sterile, 1000/bag	$38.75	$35.00

Dual Position Cap

Fluted Plug Cap

Electroporation Cuvettes

Use for electroporation of bacteria, yeast, or mammalian cells. Polished aluminum plates reduce static and arcing for better performance. Each cuvette is individually wrapped and gamma irradiated for sterility. Color-coded caps identify gap width. Fits BIO-RAD®, BTX®, and Eppendorf® electroporators.



Bag of 50 cuvettes $146.25
10+ bags, each $122.00

CATALOG NO.	GAP WIDTH	MIN/MAX VOLUME	CAP COLOR
9104-1050	0.1 cm	20/90 µl	White
9104-5050	0.2 cm	40/400 µl	Blue
9104-6050	0.4 cm	80/800 µl	Red

Spectrophotometer Cuvettes

Polystyrene cuvettes for wavelengths from 340 to 800 nm. Packaged in shrink-wrapped polyfoam trays. Cuvettes fit most spectrophotometers and have a 10 mm optical light path. Each case contains 10 trays of 100 cuvettes (1000).

		PRICE PER CASE	
CATALOG NO.	VOLUME	1-9	10+
9090-0460	1.5 ml	$97.50	$87.75
9090-0450	3.5 ml	$92.00	$83.00

UV Transparent Cuvettes

Scratch-resistant disposable cuvettes are effective at wavelengths from 220-900 nm. They can replace expensive quartz cuvettes in many DNA, RNA, and protein applications. Cuvettes fit most spectrophotometers and photometers without special adapters. All cuvettes have a 10 mm pathlength and are packaged in foam boxes for safe transport.

Semi-micro UV Cuvettes
Minimum/maximum volumes are 1.5/3.0 ml. Window measures 4.5 mm x 23 mm. 100/pack.

9075-9150 Semi-micro cuvette $82.00

Ultra-micro UV Cuvettes
Select the window height that matches the beam height of your spectrophotometer. Window measures 2.0 mm x 3.5 mm. Minimum/maximum volumes as indicated. Individually wrapped options are RNase, DNase, and DNA free. 100/pack.

9075-9220 15 mm window, 70/550 µl $82.00
9075-9235 15 mm window, 70/550 µl, individ. wrapped $121.50
9075-9200 8.5 mm window, 70/850 µl $82.00
9075-9215 8.5 mm window, 70/850 µl, individ. wrapped $121.50
9075-9240 Round cap, blue $27.00

Prices and products subject to change without notice. See www.usascientific.com for current information.

Self-Standing Conical Vials

Copolymer* polypropylene conical vials have a self-standing skirt and a high density polyethylene screw cap with a sealing ring. Graduations aid volume estimation; 5 and 10 ml vials have large, etched writing surfaces.

- 5 ml tubes measure 20 mm W x 60 mm H with blue cap
- 10 ml tubes measure 20 mm W x 94 mm H with white cap
- 50 ml tubes measure 34 mm W x 117 mm H with blue cap

		1-9	10+
1505-1000	5ml, 4 bags of 250 (1000), non-sterile	$57.00	$51.50
1505-1510	5ml, 20 bags of 25 (500), sterile	$60.00	$54.00
1510-1000	10 ml, 4 bags of 250 (1000), non-sterile	$72.00	$65.00
1510-1510	10 ml, 20 bags of 25 (500), sterile	$69.75	$63.00
1503-2610	50 ml, 20 bags of 25 (500), sterile	$139.75	$126.00

*Copolymer polypropylene is a polypropylene chain with an ethylene monomer compound added for increased clarity and flexibility.

9040-1000

Hematology Cell Counter Vial

For automated blood cell counters or Coulter® counters. Optically clear parallel sides made from high grade polystyrene allow dust and particle free readings with no background. Graduated at 10 and 20 ml. Includes easily removable, leak-tight polyethylene snap cap with tab.

		1-9	10+
9040-1000	Cell counter vial, 1000/case	$135.50	$121.50

1505-7000

5 ml Snap Cap Vial

Polypropylene vial has a flat bottom and a polyethylene snap-on cap. Measures 15.5 x 57 mm with cap.

		1-9	10+
1505-7000	5 ml vial, 4 bags of 250 (1000)	$71.00	$64.00
1505-7005	5 ml vial, 5 trays of 200 (1000)	$90.75	$81.75

1507-8100

7 ml Polypropylene Vial

Clear polypropylene vial fits most scintillation counters and has a dimpled bottom for filter paper counting. Linerless polyethylene screw cap requires only one half turn to open or close. Measures 16 x 55.8 mm with cap. Four bags of 250 in each case.

		1-9	10+
1507-8100	7 ml vial, 1000/case	$79.00	$71.25

Cluster Tubes - Open Bottom Rack

Use for serial dilutions, mixing, or storing samples. Open bottom racks aid temperature equilibration in water or ice baths. Individual polypropylene tubes hold up to 1.2 ml (1.0 ml with caps). Bold, printed alpha-numeric markings on the rack are easy to read. The 8 x 12 format rack accommodates multi-channel pipettors, includes a lid for safe storage, and is compatible with robotic systems. Certified RNase, DNase, DNA, and PCR inhibitor free. Tested endotoxin free.

1412-1400

		1-9	10+
Racked Tubes			
1412-1400	1.2 ml, 10 racks of 96 (960)	$39.25	$33.50
1412-1410	1.2 ml, 10 racks of 96 (960), sterile	$50.25	$43.00

Bulk Tubes and Caps
Polypropylene bulk tubes can be used to refill racks.
Polyethylene strip caps may be cut into shorter strips.

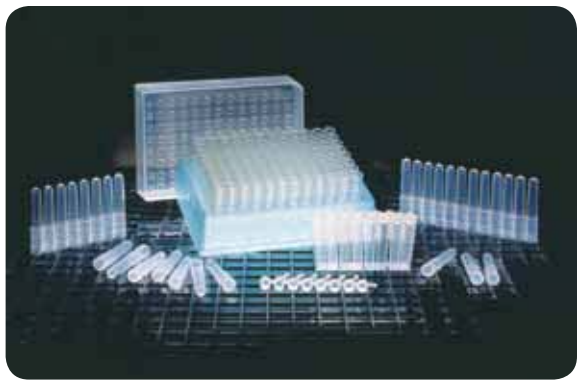
8-cap strips

12-cap strips

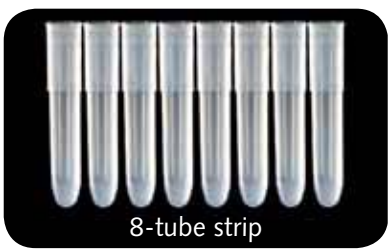
1412-1000	1.2 ml tubes, 1000/bag	$28.25	$24.25
1494-0400	8-cap strip, 125 strips (1000)	$14.75	$12.75
1494-0410	8-cap strip, 125 strips (1000), sterile	$22.50	$17.50
1494-1200	12-cap strip, 80 strips (960)	$14.75	$12.75
1494-1210	12-cap strip, 80 strips (960), sterile	$22.50	$19.50

Cluster Tubes - Enclosed Rack

Polypropylene 1.1 ml and 0.65 ml strip tubes fit in an 8 x 12 format rack that is compatible with automated workstations. May be centrifuged, stacked, and stored in the freezer. The alphanumeric, non-reversing rack and lid ensure positive sample identification.

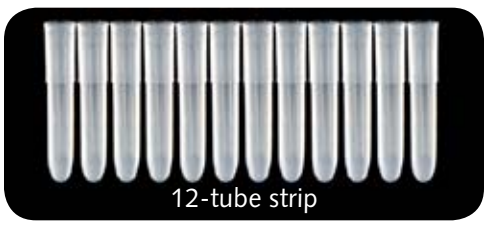


Racked Tubes
10 racks of 960 tubes.


8-tube strip

		1-9	10+
1212-8400	1.1 ml 8-tube strip	$56.00	$51.00
1212-8410	1.1 ml 8-tube strip, sterile	$67.50	$61.50
1212-1600	1.1 ml 12-tube strip	$56.00	$51.00
1212-1610	1.1 ml 12-tube strip, sterile	$67.50	$61.50
1265-0400	0.65 ml individual tubes	$56.00	$51.00

Bulk Tubes and Caps
Polypropylene bulk tubes can be used to refill racks.
Polyethylene strip caps may be cut into shorter strips.


12-tube strip

1212-8000	1.1 ml 8-tube strip, 120 strips (960)	$33.50	$30.50
1212-1200	1.1 ml 12-tube strip, 80 strips (960)	$33.50	$30.50
1265-0000	0.65 ml individual tubes, 960/bag	$23.50	$21.50
1294-0800	8-cap strip, 120 strips (960)	$15.50	$14.25
1294-0810	8-cap strip, 120 strips (960), sterile	$20.50	$18.75
1294-1200	12-cap strip, 80 strips (960)	$18.00	$16.50
1294-1210	12-cap strip, 80 strips (960), sterile	$22.50	$20.50

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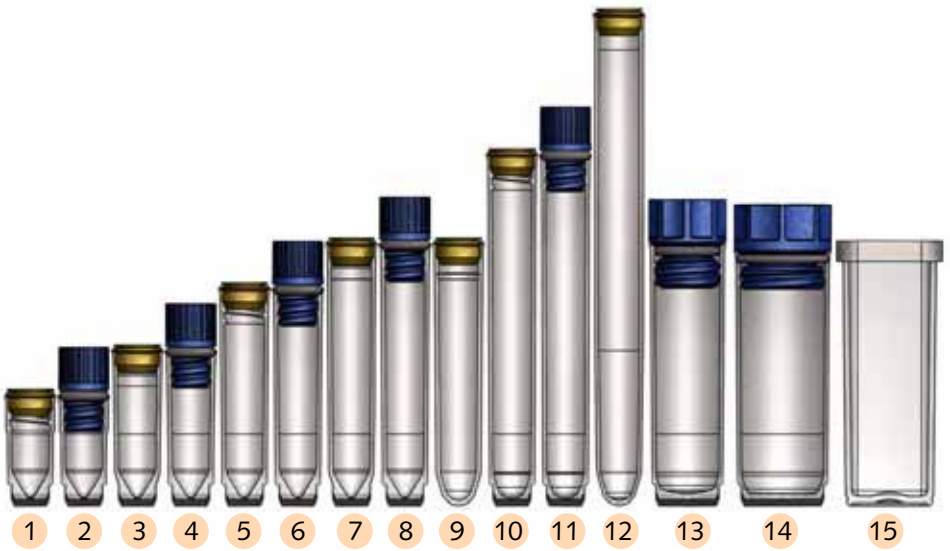
Traceable Sampling Solutions

- Maximize sample traceability
- Minimize storage space
- Permanently identify each sample without labels
- Simplify the handling of multiple samples

Reliable and efficient sample storage is essential for research. Micronic tubes can reduce your storage space requirements and make sample organization and retrieval easier. Micronic polypropylene tubes are manufactured from a medical grade resin that releases fewer leachables than similar materials. Samples remain contaminant free, even after lengthy storage in DMSO. All tubes have low dead volumes for maximum recovery and are uniformly straight for reliable automated sampling. Borosilicate glass tubes are also available by special order. All tubes and caps are certified RNase and DNase free and manufactured to ISO 7 regulations.



	Tube Name	Inner Shape	Net Volume	Height	Non-Coded	Alphanumeric	2D Data-Matrix
1	0.50 ml Screw Cap Tube	V	0.27 ml (Push cap)	18.5 mm	√	√	√
2	0.50 ml Screw Cap Tube	V	0.19 ml (Screw cap)	18.5 mm	√	√	√
3	0.75 ml Push Cap Tube	V or U	0.52 ml or 0.57 ml	26.0 mm	√	√	√
4	0.75 ml Screw Cap Tube	V	0.44 ml	26.0 mm	√	√	√
5	1.10 ml Screw Cap Tube	V	0.87 ml (Push cap)	36.5 mm	√		√
6	1.10 ml Screw Cap Tube	V	0.78 ml (Screw cap)	36.5 mm	√		√
7	1.40 ml Push Cap Tube	V or U	1.12 ml or 1.19 ml	36.5 mm	√	√	√
8	1.40 ml Screw Cap Tube	V or U	1.09 ml or 1.16 ml	44.0 mm	√		√
9	1.40 ml Standard	U	1.11 ml	44.0 mm	√	√	
10	2.00 ml Screw Cap Tube	U	1.70 ml (Push cap)	59.0 mm		√	√
11	2.00 ml Screw Cap Tube	U	1.60 ml (Screw cap)	59.0 mm		√	√
12	2.50 ml Push Cap Tube	U	2.68 ml	82.5 mm	√		
13	4.00 ml Screw Cap Tube*	U	3.00 ml	44.0 mm			√
14	6.00 ml Screw Cap Tube	Flat	4.60 ml	42.9 mm			√
15	7.50 ml Tube with Lid	Flat	6.33 ml	44.0 mm	√		√

*Available soon; call for more information.

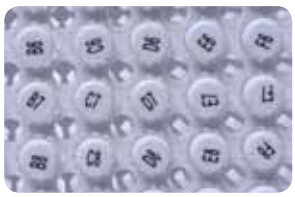
Permanent Labeling Options

Tubes with individual codes maximize sample traceablility and offer permanent identification without applying separate labels.

Alphanumeric codes are an easy way to identify tubes without a special reader. Each array of 96 tubes is pre-printed with A1 to H12 on the tube bottoms. Tubes removed from a rack retain their positional identity.

2D Data-Matrix coded tubes have a permanent 2D barcode. Each code is laser etched into the tube and will not rub off or dissolve even after prolonged exposure to solvents. 2D Data-Matrix tubes encode an open source ten digit number and also include a human readable code.

2D coded tubes can be read individually or in the racks. A variety of readers/scanners are available for single tubes, single racks, or multiple racks.



Alphanumeric Code

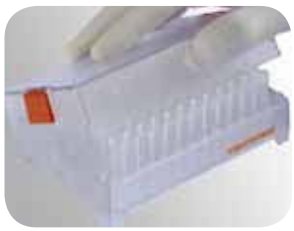
2D Data-Matrix Code

Rack Options

Roborack-96. Polypropylene rack with snap-on locking cover. Open base has special air-flow design for faster thawing. Contoured Sure-Shot wells help automated equipment reseat tubes. SBS compatible footprint.

Roborack-96

Comorack-96. Polycarbonate rack offers increased solvent resistance, withstands up to 100 autoclave cycles, and has a tight locking cover for safe transport. Quick release locks can be opened with one hand. A Comorack-24 is also available for 7.5 ml tubes.



Comorack-96

Comorack-24

Loborack-96. Polypropylene rack for 0.50 and 0.75 ml tubes measures just 31.7 mm high with the cover, about 35% shorter than 1.4 ml racks. It has an open base and a snap-on locking cover. SBS compatible footprint.

Loborack-96

Arctic Rack-24. Developed for 6.0 ml screw cap tubes stored at cryogenic temperatures. Polyoxymethylene base with locking cover; autoclavable. SBS compatible footprint.

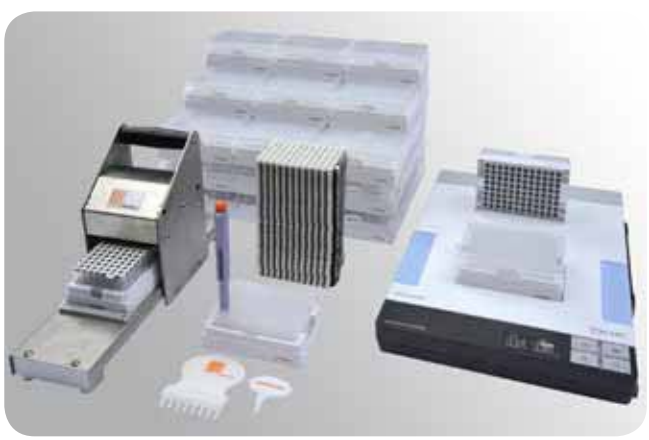
Arctic Rack-24

Refill Carrier. Tubes in a 96-rack format without the rack. Quick and easy way to load an empty 96-tube rack in one step.

Refill Carrier

Starterpacks

New to 2D codes? A Starterpack will give you the equipment and consumables you need to begin storing and tracking your samples more efficiently. Starterpacks can be customized to your needs and offer savings compared to individually purchased components. Please contact us at 1-800-522-8477 or info@usascientific.com for information.



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MICRONIC STORAGE SOLUTIONS

Micronic tubes are available in many volumes and rack formats. Tubes without internal screw threads are sealed with TPE or EVA push caps; tubes with internal screw threads are sealed with screw caps or TPE push caps. (Caps sold separately.) Racks are also available with barcodes.

Premium Non-Coded Tubes, 96 tubes per rack or refill.

Additional sizes and formats are available. Please call for information.

CATALOG NO.	NOMINAL VOLUME	INTERNAL SCREW THREADS	INNER SHAPE	FORMAT	QUANTITY	PRICE
1773-2040	0.5 ml	Yes	V-bottom	Bulk	960 tubes	$47.50
1773-2041	0.5 ml	Yes	V-bottom	Loborack-96	10 racks	$246.00
1753-2041*	0.5 ml	Yes	V-bottom	Loborack-96	10 racks	$246.00
1773-2017	0.75 ml	--	V-bottom	Bulk	960 tubes	$45.50
1773-2008	0.75 ml	--	V-bottom	Loborack-96	10 racks	$242.00
1773-2022	1.4 ml	--	U-bottom	Bulk	960 tubes	$45.50
1774-2002	1.4 ml	--	U-bottom	Roborack-96	10 racks	$241.50
1772-2676	1.4 ml	--	U-bottom	Refill carrier	10 refills	$72.00
1773-2042	1.4 ml	Yes	U-bottom	Roborack-96	10 racks	$242.00
1773-2003	2.5 ml	--	U-bottom	Roborack-96	6 racks	$425.50
1773-2032	2.5 ml	--	U-bottom	Bulk	480 tubes	$289.00

*Snap tube base

Alphanumeric Coded Tubes (black print), 96 tubes per rack or refill.

H-8

Additional sizes and formats are available. Please call for information.

CATALOG NO.	NOMINAL VOLUME	INTERNAL SCREW THREADS	INNER SHAPE	FORMAT	QUANTITY	PRICE
1774-2049	0.5 ml	Yes	V-bottom	Loborack-96	10 racks	$268.00
1774-2013	0.75 ml	--	V-bottom	Loborack-96	10 racks	$264.00
1774-2022	0.75 ml	--	V-bottom	Refill carrier	10 refills	$90.50
1774-2003	1.4 ml	--	U-bottom	Roborack-96	10 racks	$264.00
1772-2677	1.4 ml	--	U-bottom	Refill carrier	10 refills	$90.50
1772-2501	1.4 ml	--	U-bottom	Comorack-96	10 racks	$277.50
1774-2047	1.4 ml	--	V-bottom	Roborack-96	10 racks	$264.00
1774-2071	1.4 ml	Yes	V-bottom	Roborack-96	10 racks	$268.00
1774-2073	2.0 ml	Yes	U-bottom	Roborack-96	6 racks	$150.00

2D Data-Matrix Coded Tubes, 96 tubes per rack or refill.

Additional sizes and formats are available. Please call for information.

CATALOG NO.	NOMINAL VOLUME	INTERNAL SCREW THREADS	INNER SHAPE	FORMAT	QUANTITY	PRICE
1775-2325	0.5 ml	Yes	V-bottom	Loborack-96	10 racks	$529.50
1775-2020	0.75 ml	--	V-bottom	Loborack-96	10 racks	$519.50
1775-2318	1.1 ml	Yes	V-bottom	Bulk	960 tubes	$274.50
1775-2319	1.1 ml	Yes	V-bottom	Roborack-96	10 racks	$529.00
1775-2607	1.4 ml	--	U-bottom	Bulk	960 tubes	$267.00
1775-2011	1.4 ml	--	U-bottom	Roborack-96	10 racks	$519.50
1775-2330	1.4 ml	Yes	U-bottom	Roborack-96	10 racks	$529.50
1775-2320	1.4 ml	--	V-bottom	Bulk	960 tubes	$267.00
1775-2321	1.4 ml	--	V-bottom	Roborack-96	10 racks	$519.50
1775-2355	1.4 ml	Yes	V-bottom	Roborack-96	10 racks	$529.50
1775-2360	2.0 ml	Yes	U-bottom	Roborack-96	6 racks	$295.00

Screw Caps

Polypropylene screw caps with silicone o-rings offer secure closure from -180°C to 121°C (vapor phase LN2). Each pack includes one removal tool. Caps fit 0.5, 0.75, 1.1, 1.4, and 2.0 ml Micronic tubes. Certified RNase and DNase free and manufactured to Class 10,000 regulations. Non-toxic (USP class VI test). 960/pack. $289.50

1775-3101 White
1775-3102 Red
1775-3103 Blue
1775-3104 Yellow
1775-3105 Green
1775-3106 Transparent blue

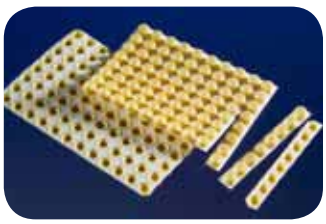
TPE Sealing Options

Thermoplastic elastomer (TPE) caps are hydrophobic, DMSO resistant, and have ultra-low leechables for safe long-term storage from -80ºC to +80ºC. Caps may be pierced up to 12 times; split cap options offer unlimited piercing. Micronic TPE caps fit most brands of 1.2 ml tubes and are certified RNase and DNase free and are manufactured from USP Class VI medical approved material.

TPE Capmats
Seals the entire rack. Can be removed in one piece and reused.
10 mats/pack (960 caps) $52.00

1775-3000	Natural (beige)	1775-3014	Pink
1775-3011	Blue	1775-3015	Rust
1775-3012	Green	1775-3016	Black
1775-3013	Gray	1775-3017	Yellow

TPE Capmats



Perforated mats can be separated into strips of eight

TPE Capband-8
Perforated mats can be separated into strips of 8. Colors available online. Pack of 10 mats (120 strips, 960 caps).

1775-3002 Capband-8, natural (beige) $61.00

TPE Split Capband-8
Split caps can be pierced with a pipet tip. 10 mats/pack (120 strips, 960 caps). Not shown.

1775-3027 Split Capband-8, natural (beige) $66.00

Capcluster Mat

Wide choice of colors

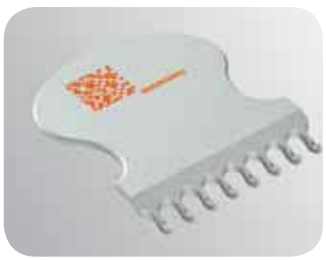
TPE Capcluster Mats
The Capcluster mat supporting film is removed once the rack is sealed to create individually capped tubes. 10 mats/pack (960 caps). $61.00

1775-3001	Natural (beige)	1775-3007	Pink
1775-3004	Blue	1775-3008	Rust
1775-3005	Green	1775-3009	Black
1775-3006	Gray	1775-3010	Yellow

Specialty colors, 10 mats/pack (960 caps) $67.50

1775-3036	White	1775-3076	Orange
1775-3038	Purple	1775-3041	Lt. blue

1765-4001 1765-4000



1776-5010

TPE Split Cap Capcluster Mats
Split caps can be pierced with a pipet tip. 10 mats/pack (960 caps). Not shown.

1775-3026 Natural (beige) $55.00

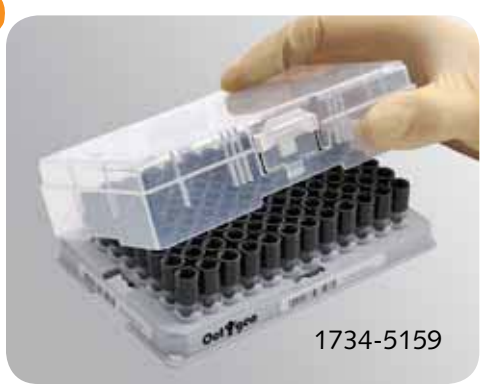
Manual Decappers

1765-4000	Decapper-1, polypropylene	$7.00
1765-4001	Decapper-8, polypropylene	$8.00
1776-5010	Decapper-8, aluminum	$295.00

Capmat Sealer
Seal the entire rack by sliding the roller over the caps. For 1.4 ml tubes; adapters are required for 0.50 ml, 0.75 ml, or 1.10 ml tubes.

1765-5006	Capmat Sealer	$1208.00
1765-5702	Adapter for 0.50 ml tubes	$200.00
1765-5700	Adapter for 0.75 ml tubes	$200.00
1765-5701	Adapter for 1.10 ml tubes	$200.00

Prices and products subject to change without notice. See www.usascientific.com for current information.


1734-5159

Octygen 0.5 ml 2D Data-Matrix Tubes

Externally threaded polypropylene screw cap tubes have a net volume of 475 µl. The inner V-bottom has a flat center, and the outer bottom has a permanent laser etched 2D barcode. The tubes are 25.6 mm tall and are supplied pre-sterilized with a black screw cap. The 96-place rack is barcoded on the A1-H1 and H1-H12 sides. Made in a controlled environment per ISO14644 and medical manufacturing standard ISO13485. DNase, RNase, and pyrogen free.

1734-5159	Octygen 0.5 ml tubes, 10 racks (960 tubes)	$739.50

6.0 ml tubes

6.0 ml 2D Data-Matrix Coded Tubes

6.0 ml screw cap tubes (net volume 4.6 ml) are ideal for long term storage in vapor phase LN_2. When fully closed, the silicone O-ring is positioned inside the tube, providing a secure seal under pressure. Both the internal and external bottoms of the tube are flat.

The Arctic Rack-24 holds 24 6.0 ml tubes, is designed for cryogenic temperatures, and has an industry standard SBS footprint. Racks listed below have a linear barcode laser etched on the A1-D1 and D1-D6 sides. Pre-capped tubes are also available.

1775-2400	6.0 ml tube (uncapped), bulk, 240/pack	$159.00
1775-2401	6.0 ml tube (uncapped), 10 racks (240 tubes)	$379.00
1775-3201	White cap for 6.0 ml tube, bulk, 240/pack	$98.00
1775-2541	6.0 ml tube (capped), white cap, 10 racks (240)	$565.00

Racked 7.5 ml tubes include covers.

7.5 ml 2D Data-Matrix Coded Tubes

Flat bottom polypropylene tubes have a net volume of 7.0 ml and are ideal for the storage of larger volumes or solid samples. Each tube has an attached snap-on lid. An autoclavable, 24-place polycarbonate ComoRack-24 with lid is available for easier handling and storage.

1775-2314	7.5 ml tube, bulk, 100/pack	$99.50
1775-2315	7.5 ml tube in ComoRack-24, 10 racks	$455.50

1768-5120

Portable Wireless 2D Scanner

Battery-operated BLUETOOTH® wireless scanner lets you read 2D or linear barcodes up to 10 meters away from the base. Includes docking base with host-powered interface and for hands-free barcode reading. Long lasting, rechargeable, high capacity lithium ion battery. Small footprint; weighs 9 ounces.

1768-5120		$1795.00

2D Data-Matrix Handheld Scanner

Easy to use scanner reads linear or 2D barcodes. Connects to Windows-based PCs via USB cable. Switch between hands-free and handheld operation at your convenience.

1830-6617 $655.00

1830-6617

SampleScan Plus Single Tube Reader

Single tube scanner reads 1D and 2D barcodes. Offers plug-and-play setup through a USB connection and requires no software or power supply. Data automatically transfers to any open program on your PC. Scans and decodes in less than one second. Small footprint; measures just 4″ W x 4″ D x 5½″ H. BioMicroLab.

1768-5117 $1,395.00

1768-5117

SampleScan Mini Bar Code Reader

Small bench top 2D reader scans an SBS-formatted rack in just 5-7 seconds. Compatible with 12-, 24-, 48-, and 96-place racks. May also be used to scan individual tubes. Measures just 10.5″ D x 6.25″ W x 1.5″ H. BioMicroLab.

1778-7000 $4,995.00

1778-7000

1778-5116

SampleScan instruments include SDK and ActiveX toolkits for integration with LIMS and robotic systems.

SampleScan 96

Scanner interfaces with a personal computer to read a rack of 96 data matrix coded tubes in less than 20 seconds. Data can be exported to a variety of software packages.

1778-5116 SampleScan 96 scanner $3,295.00

Tracxer Code Reader RS210

Small barcode scanner reads one rack in less than five seconds. Works with 12-, 24-, 48-, 96-, and 384-place tube racks. Easy software installation with optional linear barcode integration. Measures 25 cm L x 15.5 cm W x 5.5 cm H.

1775-5120 Tracxer RS210 scanner $4,725.00
1775-5637 Linear scanner attachment $1,500.00

NEW!

1775-5120

Tracxer Code Reader RS210

NEW!

1775-5114

Tracxer Code Reader RS297

Tracxer Code Reader RS297

Scan a full rack of tubes within 15 seconds. Updated software offers easy installation and outputs CSV files for use with database systems. Rack IDs can also be automatically transferred into the filename.

1775-5114 Tracxer RS297 scanner $2,500.00

Univo Electric Capper

Semi-automated bench top instrument caps a rack of 96 tubes in approximately 7 seconds. Controlled pressure provides reproducible, complete sealing on full or partial racks. Caps Micronic and other tube brands up to 1.4 ml. Measures 15″ x 8.3″ x 11.4″; 31 lbs.

1773-5020 Univo Electric Capper $5,000.00

NEW!

Univo Electric Capper

Prices and products subject to change without notice. See www.usascientific.com for current information.

Univo Electric Decapper

Univo Electric Decapper

Semi-automated bench top instrument decaps a rack of 96 tubes within 8 seconds with minimal chance of cross-contamination. Decaps Micronic 0.5 ml, 0.75 ml, 1.10 ml, or 1.4 ml tubes (sealed with push caps) without additional adapters. (Also compatible with other tube brands and plates.) Measures 9.8″ W x 21.7″ D x 14.2″ H; Weighs 55 lb.

1773-5000	$38,400.00

Screw Cap Decapper

Screw Cap Decapper

Automated decapper screws or unscrews 12 caps at a time, ensuring that no cap moves over open tubes. Handles 96 caps within 60 seconds and is compatible with the full range of Micronic screw cap tubes. (Also compatible with many other brands.) Torque monitoring ensures optimal sealing, and a laser sensor detects tube height, eliminating the need for adapters. A graphical touch screen interface simplifies programming and is easy to use. Measures 12″ W x 27″ D x 14.3 H. Weighs 44 lb.

1774-7101	$33,750.00

VolumeCheck System

Automated non-contact liquid level detector uses acoustics to determine individual sample volumes in 24-, 48-, and 96-well plates and racked cluster tubes. Choose the 100LV large-volume system for tubes over 52 mm in height.

Includes a calibration plot utility. Optional ActiveX controls assist integration with LIMS and lab automation. Requires Windows® XP/ Vista/7 computer with one USB port. Measures 10.3″ W x 17.0″ D x 10.5″ H. Weighs 27 lb. BioMicroLab.

1768-5150	VolumeCheck 50, 3 minutes per plate	$19,995.00
1768-5119	VolumeCheck 100, 1 minute per plate	$24,995.00
1768-5130	VolumeCheck 100LV, 1 minute per plate	Call for pricing
1768-5125	Adapter for 0.75 ml racks	$500.00
1767-9237	PCR plate adapter	$500.00

VolumeCheck

Tube Sorting Instruments

Too busy to transfer compounds? XL20 tube sorters automate transfer from up to twenty 96-tube racks, simplifying compound library management, sample preparation, assay sorting, and other processing procedures. Bring commercial scale tube handling to your bench top, including individual tube identification, bar coded rack setup, and detailed log files. In addition to sorting, the XL20 can also scan barcodes, weigh tubes, and add the information to the log files. Windows-based software has an easy to use, intuitive interface. BioMicroLab.

1711-2000	XL20, sort only	$26,244.75
1711-2020	XL20, sort and scan	$31,494.75
1711-2002	XL 20, sort and weigh	$36,744.25
1711-2232	XL 20, sort, scan, and weigh	$41,944.75

XL20 Tube Handler

C

PCR PRODUCTS

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TempAssure®
PCR TUBE
AMPLIFY
STRIP TUBES
PCR PLATE
PCR ACCESSORIES
TempPlate®
PCR WORKSTATIONS
SEMI-SKIRTED
LABELS

USA SCIENTIFIC®

PCR TUBE SELECTION GUIDE

Catalog Number	Page	Real-Time Compatible	Flex-Free	CAP OPTIONS: Optically Clear Flat Cap	Flat Cap	Dome Cap	Individually Attached Cap	Strip Caps, Attached	Strip Caps, Not Attached	Cap Sold Separately	COLORS: Natural Color	Assorted Colors	White	White Tube, Clear Cap
0.2 ml Individual Tube														
1402-8100	C11				X		X				X			
1402-8108	C11				X		X					X		
1402-8120	C11	X		X			X				X			
1402-4300	C11					X	X							
1402-4308	C11					X	X					X		
1602-4300	C11					X*	X**				X			
1402-0200	C11	X								X	X			
0.5 ml Individual Tube														
1405-8100	C11				X		X				X			
1405-8108	C11				X		X					X		
0.1 ml 8-Tube Strip														
1402-2300	C15	X	X	X			X				X			
1402-2380	C15	X	X	X			X							X
1402-3600	C13	X	X	X					X		X			
1402-3680	C13	X	X	X					X					X
1402-3200	C13	X	X							X	X			
1402-3280	C13	X	X							X			X	
0.2 ml 8-Tube Strip														
1402-4700	C15	X	X	X			X				X			
1402-4708	C15		X	X			X					X		
1402-4780	C15	X	X	X			X							X
1402-3900	C15	X		X			X				X			
1402-2900	C15					X	X				X			
1402-2908	C15					X	X					X		
1402-2700	C13					X			X		X			
1402-2708	C13					X			X			X		
1402-2500	C13	X		X					X		X			
1402-2580	C13	X		X					X					X
1402-2800	C13					X		X			X			
1402-2808	C13					X		X				X		
1402-1800	C14	X	X	X				X			X			
1402-1808	C14		X	X				X				X		
1402-1880	C14	X	X	X				X						X
1402-3500	C12	X								X	X			
1402-3508	C12									X		X		
0.2 ml 12-Tube Strip														
1402-2400	C13					X			X		X			
1402-2408	C13					X			X			X		
1402-1200	C12	X								X	X			
1402-1208	C12									X		X		
1402-2600	C13	X		X					X		X			
1402-2680	C13	X		X					X					X
8-Cap Strips for 0.2 ml Tubes														
1400-0800	C12					X				X	X			
1400-0808	C12					X				X		X		
1400-3800	C12	X		X						X	X			
12-Cap Strips for 0.2 ml Tubes														
1400-1200	C12					X				X	X			
1400-1208	C12					X				X		X		
1400-3120	C12	X		X						X	X			

*Dome cap with thumb guard
**Attached with prop-open hinge

Standard Well Depth

Skirt	Semi	Semi	Semi	None	None
Additional Features	Contoured sides, rimmed wells	Raised contoured sides, rimmed wells	Straight sides, rimmed wells	Rimmed wells	Chimney wells
Notched Corner	A12	A12	A12	A12	H12
Working Volume (per well)	1-240 µl	1-240 µl	1-240 µl	1-240 µl	1-240 µl
Maximum Volume	300 µl	300 µl	300 µl	300 µl	300 µl
Color Options	Natural, Assorted, White, Black	Natural, Assorted	Natural	Natural, Assorted, White	Natural, Assorted
High Contrast Alphanumerics	Yes	Yes	Yes	Yes	Yes
Natural Plate #	1402-9700	1402-9300	1402-9200	1402-9596	1402-9600
Catalog Page #	C7	C7	C6	C9	C8

Low Profile Wells

Skirt	Semi	Semi	Semi	None	Full
Additional Features	Contoured sides, rimmed wells	Raised straight sides, rimmed wells	Straight sides, rimmed wells	Rimmed wells	Rimmed wells
Notched Corner	A12	A1	H12	H12	Natural A12 White H1
Working Volume (per well)	1-140 µl	1-140 µl	1-140 µl	1-140 µl	1-140 µl
Maximum Volume	200 µl	200 µl	200 µl	200 µl	200 µl
Color Options	Natural	Natural, White	Natural, White	Natural, White	Natural, White
High Contrast Alphanumerics	Yes	Yes	Yes	Yes	Yes
Natural Plate #	1402-9400	1402-9100	1402-9900	1402-9500	1402-9800
Catalog Page #	C7	C6	C6	C9	C10

Are you working with very low volumes? Try our low profile PCR tubes or plates.

TempPlate PCR PLATE COMPATIBILITY CHART

TempPlate

This document is intended as a guide only. Please call for a sample plate or for additional assistance in choosing the right plate.

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• • Indicates the recommended option

Plate format and Catalog No. for natural color plates

Manufacturer	Model	Non-skirted 1402-9596	Non-skirted 1402-9500	Non-skirted, chimney wells 1402-9600	Semi skirted, contoured sides 1402-9700	Semi skirted, contoured sides 1402-9400	Semi skirted, raised contoured sides 1402-9300	Semi skirted, straight sides 1402-9200	Semi skirted, raised straight sides 1402-9100	Semi skirted, straight sides 1402-9900	Full-skirted 1402-9800	Full-skirted 384-well 1438-4600	Full-skirted 384-well 1438-4700
Well Shape													
Standard well (nominal volume 200 µl; approx. height 21 mm)		•		•	•		•	•					
Low profile well (nominal volume 100 µl; approx. height 16 mm)			•			•			•	•	•	35 µl*	35 µl*
Applied Biosystems													
Cyclers	2700	•		•	•		•	•					•
	2720/6100						••						
	9600	•		•	•		•	•					
	9700	•		•	•		••	•					••
	9800 "Fast"								•				
	Veriti 0.1mL								••				
	Veriti 0.2mL						••	••					
	Veriti 384												••
	5700	•			•		•	•					
	PRISM 7000; 7300/7500	•			•		••	••					
	7500 "Fast"							••	••				
	7700	•			•		•	••					
	7900HT Fast								••				
	7900HT	•			•	•	••						
	7900HT 384 Well												••
	Step One plus								••				
	ViiA 7						••		••				•
	Quant Studio 12K Flex						•		•				•
Sequencers	PRISM 310	•		•	•		•	••	••				
	PRISM 3100	•		•	•		••	•	••				
	3130 (XL), 3700, PRISM 3730 (XL)	•		•	•		••	••	••				••
	3500 (XL)												••
Amersham/GE Research													
Sequencers	MegaBACE 500/1000										•		
	MegaBACE 4000												•
Beckman													
Sequencers	CEQ	•											
Biometra													
Cyclers	Uno/Tgradient	•	•	•	•			•			•		
	Uno II	•	•	•	•			•					•
	TI Thermal Cycler/Trobot	•	•	•	•			•			•		•
	T3000/TProfessional/TOptical	•	•	•	•			•			•		
Bio-Rad/MJ Research													
Cyclers	Gene Cycler	•		•	•		•						
	PTC-100/PTC-200/PTC-225 Tetrad	•	•	•				•			••		•
	Dyad/Dyad Disciple	•	•	•				•			••		•
	iCycler	•		•				••			•		
	MyCycler	•		•				••					
	Mini Gradient	•	•										
	Personal	•						•					
	T100	••									••		
	DNA Engine family	•	•					•			•		•
	C1000/S1000	•	••					•			•		•
	Opticon/Opticon2	•	•								••		
	Chromo-4		•								•		
	iCycler	•		•				••			•		•
	MyiQ/iQ5	•		•				••			•		
	CFX Connect		•					•			•		
	CFX96										••		
	CFX384												••
Sequencers	BaseStation										•		

*384 well plates have a working/maximum volume of 25/35 µl and are 9.65 mm high.

continued on next page

TempPlate

This document is intended as a guide only. Please call for a sample plate or for additional assistance in choosing the right plate.

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• • Indicates the recommended option	Plate format and Catalog No. for natural color plates →	Non-skirted 1402-9596	Non-skirted 1402-9500	Non-skirted, chimney wells 1402-9600	Semi skirted, contoured sides 1402-9700	Semi skirted, contoured sides 1402-9400	Semi skirted, raised contoured sides 1402-9300	Semi skirted, straight sides 1402-9200	Semi skirted, raised straight sides 1402-9100	Semi skirted, straight sides 1402-9900	Full-skirted 1402-9800	Full-skirted 384-well 1438-4600	Full-skirted 384-well 1438-4700
Well Shape													
Standard well (nominal volume 200 µl; approx. height 21 mm)		•		•	•		•	•					
Low profile well (nominal volume 100 µl; approx. height 16 mm)			•			•			•	•	•	35 µl*	35 µl*
Manufacturer	**Model**												
Corbett Research (Qiagen)	PalmCycler 96							•			•		
(Qiagen)	PalmCycler 384												•
Eppendorf	Mastercycler	•	•	•				•			•		
Cyclers	Mastercycler ep/pro	•		•	•		•	•			••		
	Mastercycler nexus/nexus eco	•	•					•			•		
	Mastercycler pro 384												•
	Mastercycler ep Realplex	•		•				•	•		••		
Ericomp	Power Block I	•	•	•	•	•	•						
Cyclers	Deltacycler I	•	•	•				•					
	Deltacycler II	•	•	•	•	•	•						
	Single/Twin Block	•	•	•				•					
Esco	Swift	•		•				•					•
Cyclers	Gene	•		•				•			•		•
	Genius	•		•				•			•		
G-Storm	GS1/GS2/GS4	•	•	•	•	•	•	•					
Cyclers	GSX/GSXs	•	•	•	•	•	•	•					
MWG	Primus 96	•	•	•	•	•	•	•			•		
Cyclers	Primus 384												•
Roche													
Cyclers	LightCycler 480									•		•	
Stratagene	Robocycler 96	•						•					
Cyclers	Robocycler Gradient	•	•	•	•	•	•	•			•		
	Mx4000 and Mx3005P	•	•	•	•	•	•						
TaKaRa	TP240										•		
Cyclers	TP3000	•	•	•	•	•	•	•			•		
Techne	Touchgene/Cyclogene	•	•	•	•	•	•	•					
Cyclers	Genius/Genius Quad	•	•	•	•	•	•	•					
	Genius (TC412)	•	•	•	•	•	•	•			•		
	Flexigene/Touchgene Gradient FTC	•	•	•	•	•	•	•			•		•
	Touchgene X	•	•				•	•			•		•
	Quantica		•								•		
Thermo Hybaid	PCR Sprint	•	•	•	•	•	•	•			•		
Cyclers	(Multiblock) System	•	•	•	•	•	•	•			•		•
	Px2/PxE	•	•	•	•	•	•	•			•		•
	PCR Express/Omni-E	•	•	•	•	•	•	•			•		•
	Omnigene/Touchdown	•	•	•	•	•	•	•			•		•
Transgenomic													
Sequencers	WAVE System										•		

*384 well plates have a working/maximum volume of 25/35 µl and are 9.65 mm high.

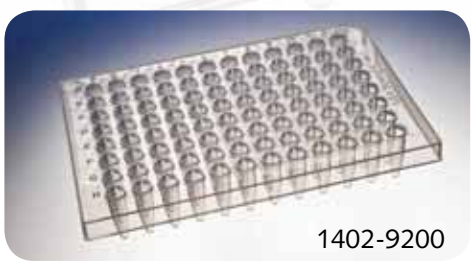
TempPlate® 96-Well Semi-Skirted PCR Plates

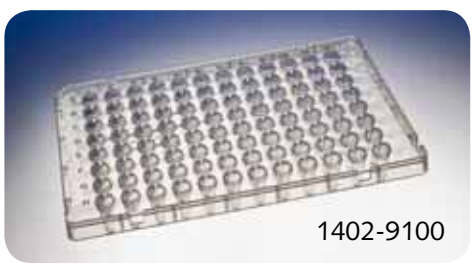
Achieve rapid, even heat transfer for consistent, high quality results. Semi-skirted TempPlate® PCR plates are available in several options to accommodate a variety of PCR cyclers. Natural plates have high clarity for easy sample viewing; white plates reflect light and reduce cross talk for a better real-time signal. All have high-contrast, easy to read alphanumeric labels and rimmed wells that minimize cross contamination and enhance sealing with films or foils.

Tamper-evident sleeves minimize exposure during handling and storage. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

See our PCR Plate Compatibility Guide on pages C4-C5 or at www.usascientific.com for suggested cycler compatibility.

Barcoding is available for semi-skirted PCR plates. Please call for more information or see "Custom Products and Barcodes" at www.usascientific.com.





96-Well Semi-Skirted Plates, Straight Sides
Half-skirted plate. H12 corner notch. Low profile plates are recommended for volumes of less than 50 µl. Compatible with LightCycler® 480 cyclers. Five sleeves of two (10) per box.

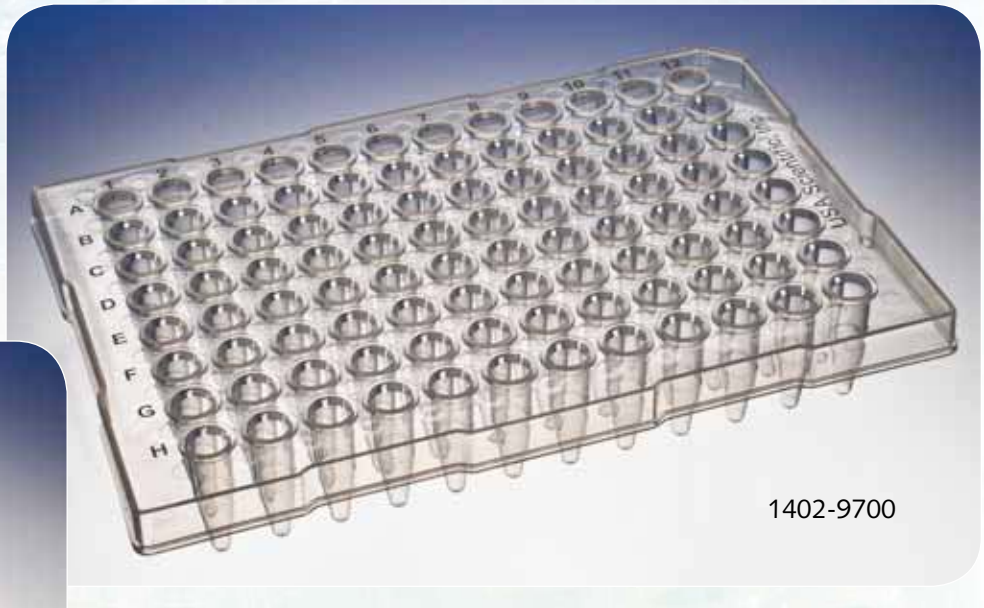
		1-9	10+
1402-9900	Natural, low profile wells	$41.50	$35.50
1402-9990	White, low profile wells	$41.50	$35.50

96-Well Semi-Skirted Plates, Straight Sides
Half-skirted plate. A12 corner notch. Five sleeves of two (10) per box except for 1402-9220, which is a bulk pack of ten plates.

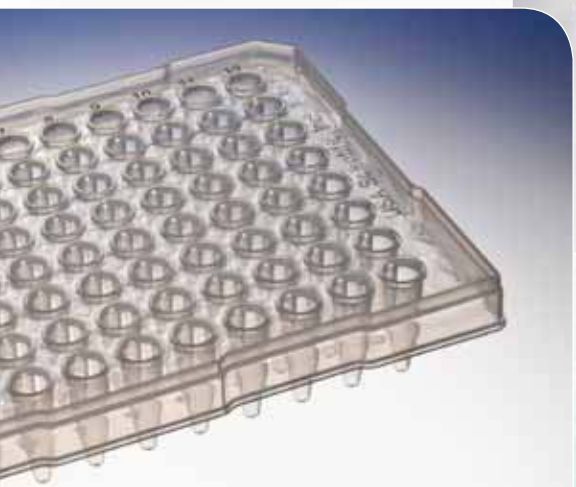
		1-9	10+
1402-9200	Natural color, standard wells	$41.50	$35.50
1402-9220	Natural color, standard wells, bulk	$41.50	$35.50

96-Well Semi-Skirted Plates, Raised Straight Sides
Half-skirted plate. A1 corner notch. Low profile plates are recommended for volumes of less than 50 µl. Compatible with ABI™ Fast cyclers. Five sleeves of two (10) per box.

		1-9	10+
1402-9100	Natural color, low profile wells	$41.50	$35.50
1402-9190	White, low profile wells	$41.50	$35.50

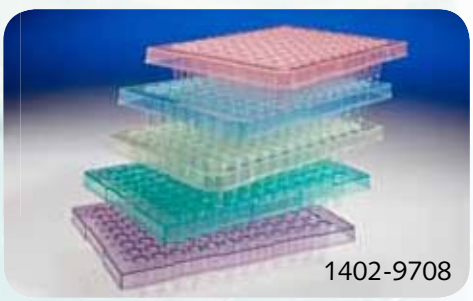


1402-9700



1402-9300

See pages C12, C16, and C17 for sealing options.



1402-9708

96-Well Semi-Skirted Plates, Contoured Sides
Half-skirted plate. A12 corner notch. Assorted colors include blue, green, red, violet, and yellow. Low profile plates are recommended for volumes of less than 50 µl. 1402-9700 fits most cyclers including Prism® and GeneAmp® systems. Five sleeves of two (10) per box.

		1-9	10+
1402-9700	Natural color, standard wells	$41.50	$35.50
1402-9708	Assorted colors, standard wells	$41.50	$35.50
1402-9790	White, standard wells	$41.50	$35.50
1402-9400	Natural color, low profile wells	$41.50	$35.50

1402-9790

96-Well Semi-Skirted Plates, Raised Contoured Sides
Half-skirted plate. A12 corner notch. Five sleeves of two (10) per box.

		1-9	10+
1402-9300	Natural color, standard wells	$40.75	$34.75

1402-9400

Prices and products subject to change without notice. See www.usascientific.com for current information.

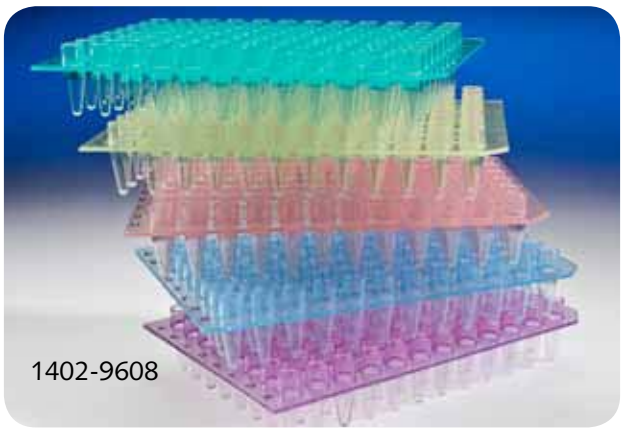
TempPlate®

96-Well Non-Skirted PCR Plates

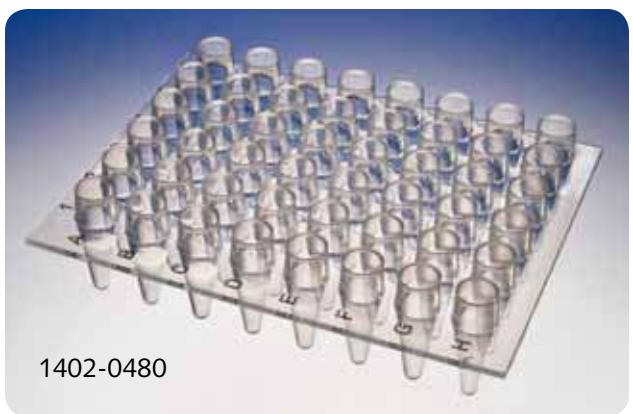
Achieve rapid, even heat transfer for consistent, high quality results. Non-skirted TempPlate® PCR plates are available in several options to accommodate a variety of PCR cyclers. Natural plates have high clarity for easy sample viewing; white plates reflect light and reduce cross talk for a better real-time signal. All have high-contrast, easy to read alphanumeric labels. Choose either rimmed wells or chimney wells.

Tamper-evident sleeves minimize exposure during handling and storage. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

See our PCR Plate Compatibility Guide on pages C4-C5 or at www.usascientific.com for suggested cycler compatibility.


1402-9608

1402-0240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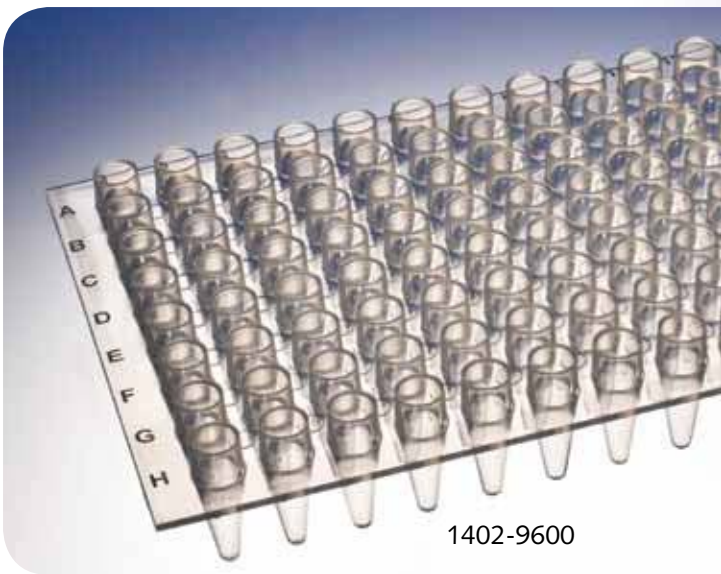


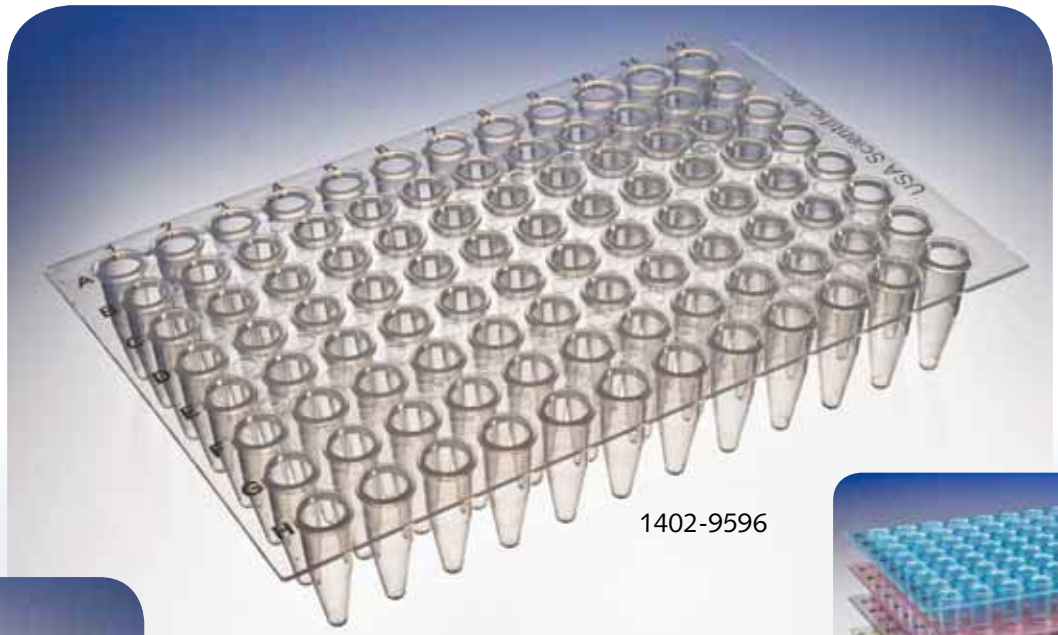
1402-9600

96-Well Non-Skirted Chimney Well Plates
Non-skirted plates have standard wells with high chimneys that help prevent cross contamination. Seal with strip caps (see page C12) or mats. H12 corner notch. Assorted colors include blue, green, red, violet, and yellow. Five sleeves of two (10) per box.

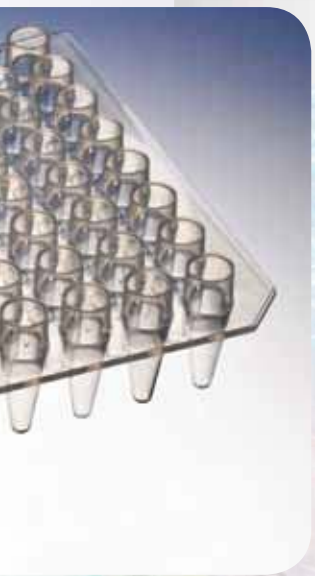
		1-9	10+
1402-9600	Natural color	$41.50	$35.50
1402-9608	Assorted colors	$41.50	$35.50

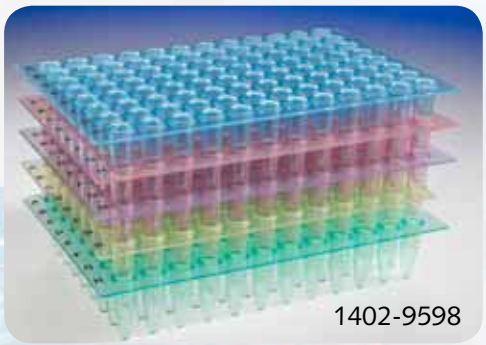
24- and 48-Well Non-Skirted Chimney Well Plates
Non-skirted plates have standard wells with high chimneys that help prevent cross contamination. Seal with strip caps (see page C12) or mats. Two/sleeve. Natural color only.

		1-9	10+
1402-0240	24 wells (3 x 8), 40/box	$45.50	$39.00
1402-0480	48 wells (6 x 8), 20/box	$45.50	$39.00

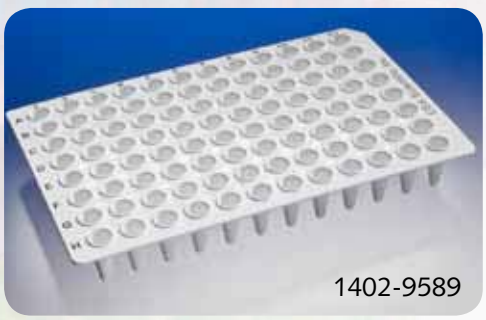


1402-9596





1402-9598



1402-9589

See pages C12, C16, and C17 for sealing options.

96-Well Non-Skirted Plates, Standard Well Height
Non-skirted plates have rimmed wells to minimize cross contamination and enhance sealing with films or foils. Standard height plates have an A12 corner notch. Assorted colors include blue, green, red, violet, and yellow. Five sleeves of two (10) per box.

		1-9	10+
1402-9596	Natural color	$41.50	$35.50
1402-9598	Assorted colors	$41.50	$35.50
1402-9589	White	$41.50	$35.50

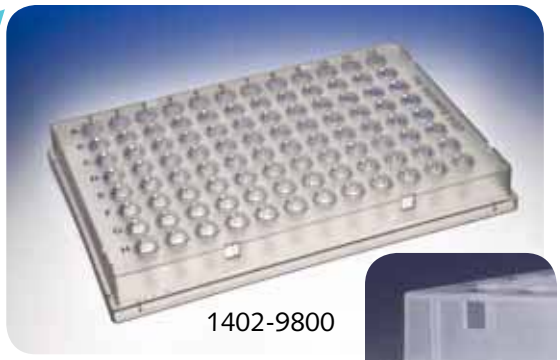
1402-9590

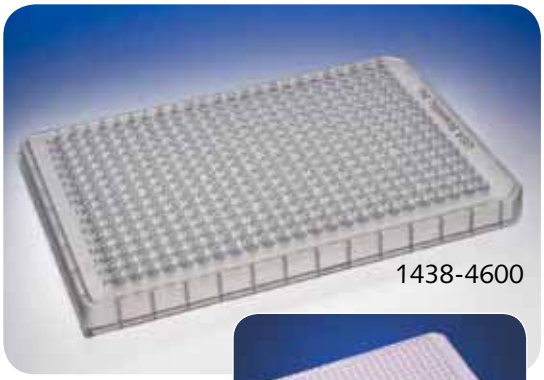
96-Well Non-Skirted Plates, Low Profile Wells
Non-skirted plates have rimmed wells to minimize cross contamination and enhance sealing with films or foils. Low profile plates have an H12 corner notch and are recommended for volumes of less than 50 µl. Five sleeves of two (10) per box.

		1-9	10+
1402-9500	Natural color	$41.50	$35.50
1402-9590	White	$41.50	$35.50

1402-9500

Prices and products subject to change without notice. See www.usascientific.com for current information.





TempPlate®

See pages C12, C16, and C17 for sealing options.

96-Well Full-Skirted PCR Plates

Achieve rapid, even heat transfer for consistent, high quality results. Full-skirt offers more room for barcodes and facilitates robotic handling. High-contrast alphanumeric labels are easy to read. Rimmed wells minimize cross contamination and enhance sealing with films or foils. All full-skirted plates have low profile wells and are ideal for volumes of less than 50 µl. Five sleeves of two (10) per box.

Tamper-evident sleeves minimize exposure during handling and storage. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

See our PCR Plate Compatibility Chart on pages C4-C5 or on our website for suggested cycler compatibility. Barcoding is available for full-skirted PCR plates. Please call for more information or see "Custom Products and Barcodes" at www.usascientific.com.

		1-9	10+
1402-9800	Natural color, A12 notch, 10/box	$41.50	$35.50
1402-9890	White, H1 notch, 10/box	$41.50	$35.50

TempPlate® 384-Well PCR Plates

Polypropylene 384-well plates have conical, flat bottom wells and easy to read black alphanumeric labels. Full skirt facilitates barcoding or robotic handling. White plates reflect light and reduce cross talk for a better real-time PCR signal. Choose either one A24 notch (ABI™ style) or two notches (A24 and P24, LightCycler® style). Plates fit most 384-well cyclers and will withstand centrifugation up to 4000 x g.

Working/maximum volume: 25/35 µl. Manufactured from 100% virgin polypropylene that is tested to be non-autofluorescent. Certified free of detectable RNase, DNase, DNA, and PCR inhibitors. Tested pyrogen free. Ten/box.

		1-9	10+
1438-4600	A24 and P24 notch, natural	$51.00	$43.50
1438-4690	A24 and P24 notch, white	$52.00	$44.25
1438-4700,	A24 notch, natural	$52.00	$44.25
1438-4790,	A24 notch, white	$52.00	$44.25

96-Well Polycarbonate PCR Plate

Clear polycarbonate full-skirted plate is ideal for thermal cycling reactions, sample dilutions, incubations, or storage. V-bottom wells enhance sample retrieval and hold up to 120 µl. The flat surface can be sealed with adhesive film or foil. The plate is flexible and has a functional temperature range of -80°C to 100°C.

2796-3330	Natural color, 25/pack	$137.00

TempAssure® Individual PCR Tubes

Polypropylene thin wall tubes allow rapid, even heat transfer for reliable amplifications. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable levels of RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

Assorted color tubes include blue, green, red, violet, and yellow in separate sleeves.

1402-4300

1402-8100

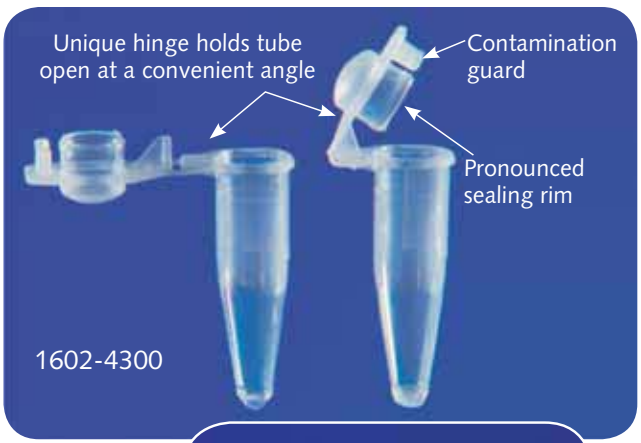
1402-8120

1402-0200

1405-8100

1402-4308

		I-9	10+
0.2 ml Tubes with Dome Caps			
Attached dome cap offers maximum condensate recovery. For traditional PCR. 1000/box.			
1402-4300	Natural	$49.25	$42.25
1402-4308	Assorted colors	$49.25	$42.25
0.2 ml Tubes with Flat Caps			
Attached frosted flat cap provides a writing surface. 1000/box.			
1402-8100	Natural	$49.25	$42.25
1402-8108	Assorted colors	$49.25	$42.25
0.2 ml Tubes for Real-Time PCR			
Attached optically clear flat cap. 1000/box.			
1402-8120	Natural	$49.25	$42.25
0.2 ml Tubes without Caps			
Seal with cap strips (page C4). Natural color only. 1000/box.			
1402-0200	Natural	$49.25	$42.25
0.5 ml Tubes with Flat Caps			
Attached frosted flat cap provides a writing surface. 1000/box.			
1405-8100	Natural	$38.75	$33.00
1405-8108	Assorted colors	$38.75	$33.00



SealRite® 0.2 ml PCR Tubes

Protect your reactions with Seal-Rite® Thin Wall Tubes

The repeated heating and cooling steps of PCR can lead to sample loss. Seal-Rite thin wall PCR tubes offer superior sealing for minimal sample evaporation.

A contamination guard helps prevent accidental contact with the cap plug while opening or closing the tubes. The support hinge holds the cap open at a convenient angle for quick closure and to avoid interference with other tubes in the same rack. There is an etched writing surface on the dome-shaped caps and on the side of each tube for easier labeling, and the strong collar resists crushing while closing.

Seal-Rite tubes are manufactured under strict conditions and are required to pass several quality control procedures. Tight tolerances ensure proper wall thickness, surface smoothness and reproducibility. All tubes are certified to be free of detectable levels of RNase, DNase, and DNA. Natural color polypropylene. 1000/box.

1602-4300
Seal-Rite 0.2 ml PCR tube

I-9	10+
$61.50	$55.75

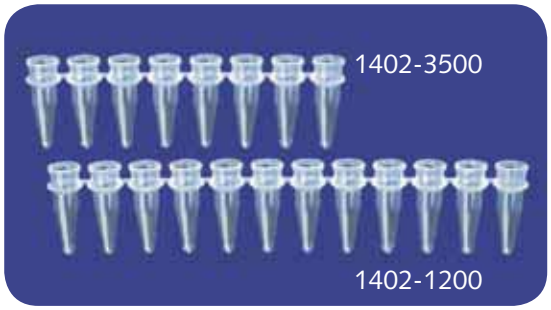
Prices and products subject to change without notice. See www.usascientific.com for current information.

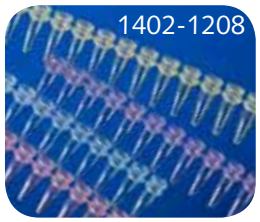
TempAssure® Tubes

Polypropylene thin wall tubes allow rapid, even heat transfer for consistent, high quality amplifications. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable levels of RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

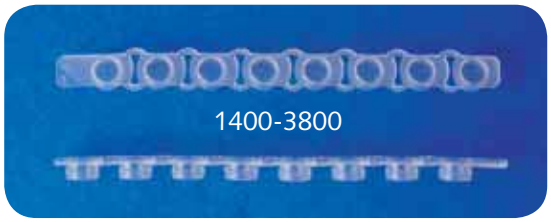
Where indicated, assorted colors are available in packs containing separate sleeves for each color. Natural tubes have one or more sealed, tamper evident inner sleeves for safer handling and storage.

Real-time PCR options: All tube formats are now available with optically clear caps or cap strips. Strip tubes are also available in white with clear caps for increased light reflection and reduced cross-talk.





Assorted colors include blue, green, red, violet, and yellow.



Tube Strips without Caps

Order caps separately or seal with mats (page C18). Natural or assorted. Assorted colors include separate sleeves of blue, green, red, violet, and yellow. Pull-apart design let you separate tubes. Flex-free strips are reinforced to resist bending while handling.

8-Tube Strips
125 strips per box (1000 tubes).

		1-9	10+
1402-3500	0.2 ml, natural, pull-apart	$91.25	$78.00
1402-3508	0.2 ml, assorted colors, pull-apart	$91.25	$78.00
1402-3200	0.1 ml, natural, flex-free **NEW!**	$91.25	$78.00
1402-3280	0.1 ml, white, flex-free **NEW!**	$91.25	$78.00

12-Tube Strips
80 strips per box (960 tubes).

1402-1200	0.2 ml, natural, pull-apart	$91.25	$78.00
1402-1208	0.2 ml, assorted colors, pull-apart	$91.25	$78.00

Cap Strips

Polypropylene caps fit both TempAssure® tubes and TempPlate® plates. Choose dome caps or optically clear flat caps. Assorted colors include separate sleeves of blue, green, red, violet, and yellow.

8-Cap Strips
125 strips per box (1000 caps).

		1-9	10+
1400-0800	dome, natural	$19.25	$16.50
1400-0808	dome, assorted colors	$19.25	$16.50

8-Cap Strips for Real-Time PCR
Optically clear flat caps. 125 strips per box (1000 caps).

1400-3800	flat, natural	$19.25	$16.50

12-Cap Strips
80 strips per box (960 caps).

1400-1200	dome, natural	$19.25	$16.50
1400-1208	dome, assorted colors	$19.25	$16.50

12-Cap Strips for Real-Time PCR
Optically clear flat caps. 80 strips per box (960 caps).

1400-3120	flat, natural	$19.25	$16.50

TempAssure® Tubes

Polypropylene thin wall tubes allow rapid, even heat transfer for consistent, high quality amplifications. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable levels of RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

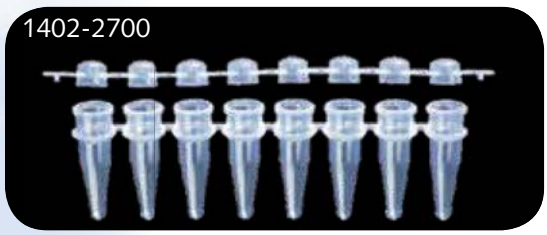
Where indicated, assorted colors are available in packs containing separate sleeves for each color. Natural tubes have one or more sealed, tamper evident inner sleeves for safer handling and storage.

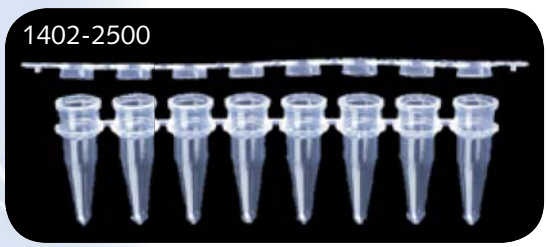
Real-time PCR options: All tube formats are now available with optically clear caps or cap strips. Strip tubes are also available in white with clear caps for increased light reflection and reduced cross-talk.

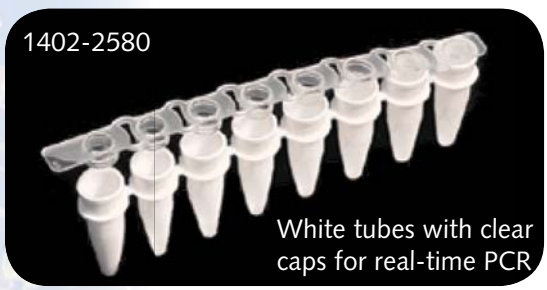
Tube Strips with Separate Cap Strips

Natural, white, or assorted. Assorted colors include separate sleeves of blue, green, red, violet, and yellow.

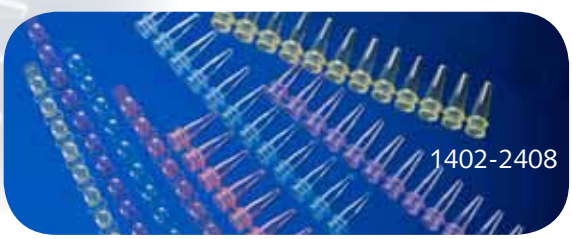
		1-9	10+
8-Tube Strips with Dome Caps			
For traditional PCR. 125 strips per box (1000 tubes).			
1402-2700	0.2 ml, natural	$106.50	$91.00
1402-2708	0.2 ml, assorted colors	$106.50	$91.00
8-Tube Strips for Real-Time PCR			
Natural and white tubes have optically clear flat caps. Pull-apart design lets you separate tubes. Flex-free strips are reinforced to resist bending while handling. 125 strips per box (1000 tubes).			
1402-2500	0.2 ml, natural, pull-apart	$106.50	$91.00
1402-2580	0.2 ml, white, pull-apart	$106.50	$91.00
1402-3600	0.1 ml, natural, flex-free **NEW!**	$106.50	$91.00
1402-3680	0.1 ml, white, flex-free **NEW!**	$106.50	$91.00
12-Tube Strips with Dome Caps			
For traditional PCR. 80 strips per box (960 tubes).			
1402-2400	0.2 ml, natural	$106.50	$91.00
1402-2408	0.2 ml, assorted colors	$106.50	$91.00
12-Tube Strips for Real-Time PCR			
Natural and white tubes have optically clear flat caps. 80 strips per box (960 tubes).			
1402-2600	0.2 ml, natural (not shown)	$106.50	$91.00
1402-2680	0.2 ml, white	$106.50	$91.00







Assorted colors include blue, green, red, violet, and yellow.



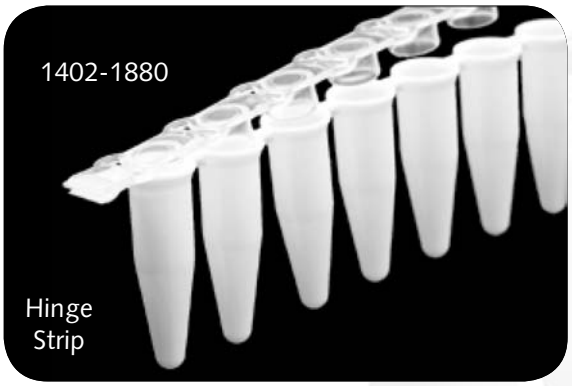
Prices and products subject to change without notice. See www.usascientific.com for current information.

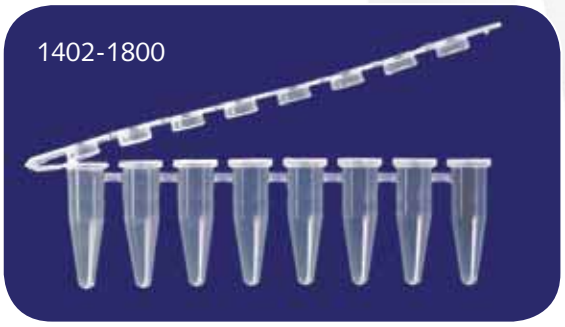
TempAssure® Tubes

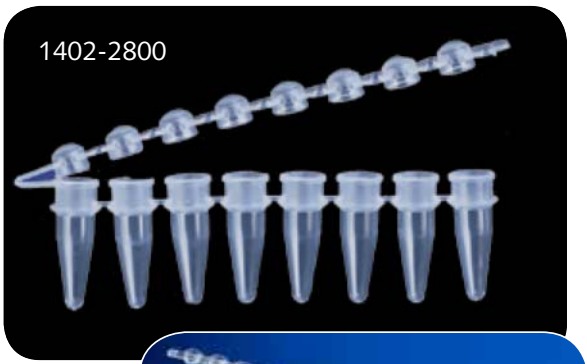
Polypropylene thin wall tubes allow rapid, even heat transfer for consistent, high quality amplifications. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable levels of RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

Where indicated, assorted colors are available in packs containing separate sleeves for each color. Natural tubes have one or more sealed, tamper evident inner sleeves for safer handling and storage.

Real-time PCR options: All tube formats are now available with optically clear caps or cap strips. Strip tubes are also available in white with clear caps for increased light reflection and reduced cross-talk.







Tube Strips with Attached Cap Strips

Hinge strip caps are attached at one end of the tube strip for convenient sealing and easy handling. Thin lower walls allow rapid, even heat transfer for consistent, high quality amplifications. Manufactured in clean room conditions from virgin polypropylene that is tested to be non-autofluorescent. Certified free of detectable levels of RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

8-Tube Strips for Real-Time PCR
Natural, white, or assorted color tubes have optically clear flat caps. Flex-free strips are reinforced to resist bending while handing. Assorted colors include five separate sleeves of blue, green, red, violet, and yellow. 125 strips per box (1000 tubes).

		1-9	10+
1402-1800	0.2 ml, natural	$116.75	$99.50
1402-1880	0.2 ml, white	$116.75	$99.50
1402-1808	0.2 ml, assorted colors	$116.75	$99.50

8-Tube Strips with Dome Caps
For traditional PCR. Natural tubes with natural dome caps. 125 strips per box (1000 tubes).

1402-2800	0.2 ml, natural	$120.50	$103.00

TempAssure® Tubes

Polypropylene thin wall tubes allow rapid, even heat transfer for consistent, high quality amplifications. Manufactured in the USA from non-autofluorescent, FDA approved virgin polypropylene. Certified free of detectable levels of RNase, DNase, DNA, and PCR inhibitors and tested pyrogen free.

Where indicated, assorted colors are available in packs containing separate sleeves for each color. Natural tubes have one or more sealed, tamper evident inner sleeves for safer handling and storage.

Real-time PCR options: All tube formats are now available with optically clear caps or cap strips. Strip tubes are also available in white with clear caps for increased light reflection and reduced cross-talk.

Tube Strips with Individually Attached Caps

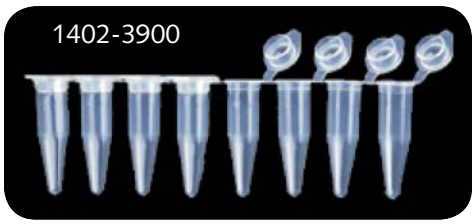
Easy to handle, individual caps reduce the risk of cross-contamination between tubes. Caps are attached to each tube at an offset angle that is compatible with closely spaced racks.

8-Tube Strips for Real-Time PCR
All have optically clear flat caps. Pull-apart design lets you separate tubes. Flex-free strips are reinforced to resist bending while handling. White tubes have clear caps. 120 strips of 8 per box (960 tubes).

		1-9	10+
1402-4700	0.2 ml, natural, flex-free	$116.75	$99.50
1402-4780	0.2 ml, white, flex-free	$116.75	$99.50
1402-2300	0.1 ml, natural, flex-free	$116.75	$99.50
1402-2380	0.1 ml, white, flex-free	$116.75	$99.50
1402-3900	0.2 ml, natural, pull-apart	$119.75	$102.00

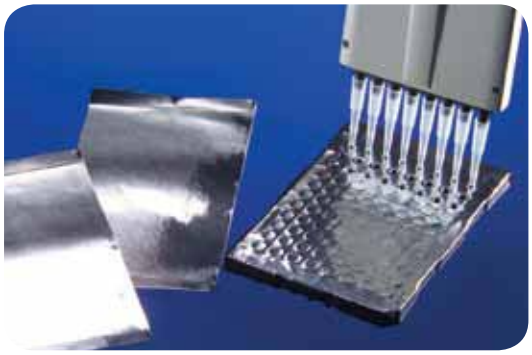
8-Tube Strips with Dome Caps
Original, pull-apart design lets you separate tubes. For traditional PCR. Assorted colors include five separate sleeves of blue, green, red, violet, and yellow. 120 strips of 8 per box (960 tubes).

1402-2900	0.2 ml, natural	$119.75	$102.00
1402-2908	0.2 ml, assorted colors	$119.75	$102.00



Prices and products subject to change without notice. See www.usascientific.com for current information.

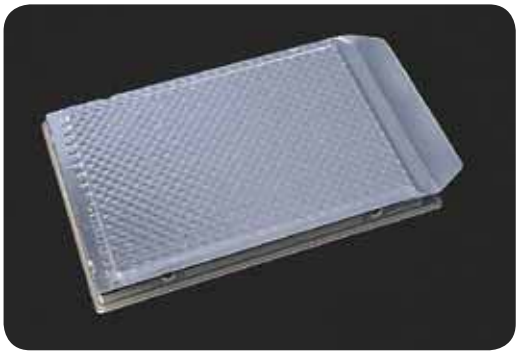
PCR SEALING FOILS AND MATS



TempPlate® PCR Foil

Pliable foil provides a strong seal without heat sealing devices. Excellent moisture and light barrier; resistant to chemicals. Standard size fits PCR plates without raised sides. Pierceable. Certified RNase, DNase, and nucleic acid free. Also available on a 100 meter roll (see page F13).

2923-0100 Non-sterile, 100/box $80.50
2923-0110 Sterile, 50/box $61.25



TempPlate® Single Tab Foil

Pliable foil has one non-perforated end tab that extends along the full length of one side. The remaining sides extend to the edges of the plate; see measurements below. Good chemical resistance; blocks light during testing or storage. Pierceable. Certified RNase, DNase, and nucleic acid free.

2938-4100 Non-sterile, 100 sheets/box. $63.00

TempPlate® Inset Cut PCR Foil

Pliable foil is cut smaller to fit PCR plates with raised sides. One partial width non-perforated end tab. Good chemical resistance; blocks light during testing or storage. Pierceable. Sealing paddle 2928-7355 (page C18) is recommended. Certified RNase, DNase, and nucleic acid free.

2939-6100 Non-sterile, 100 sheets/box. $47.25

TempPlate® Sealing Mat

Non-reactive medical grade silicone rubber firmly seals most 96-well PCR plates in thermal cyclers with pressure fit lids. May be cut to fit 24-, 32-, or 48-well plates. Autoclave or disinfect with 10% bleach. Natural.

1400-9605 Pack of 5 mats $39.50

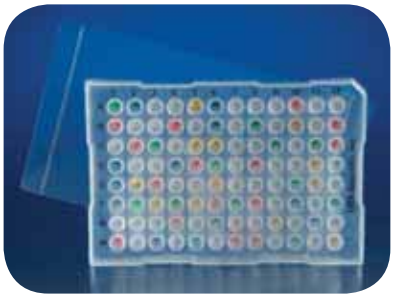
Specifications for TempPlate® PCR Sealing Foils

	TempPlate®	Single Tab, Traditional Cut	Single Tab, Inset Cut
Non-sterile	2923-0100	2938-4100	2939-6100
Sterile	2923-0110	--	--
Format(s)	Standard	Standard	Inset Cut
End tab(s)	2	1, not perforated	1, not perforated
Temperature range	-80°C to +120°C	-80°C to +120°C	-80°C to +120°C
Dimensions with end tab(s)	82.5 x 146.1 mm	82.5 x 137.3 mm	77.8 x 127 mm
Length excluding tab(s)	125.4 mm	123.8 mm	117.5 mm
Material; thickness	Aluminum; 36 µm	Aluminum; 38 µm	Aluminum; 38 µm
Adhesive; thickness	Acrylic; 28 µm	Acrylic; 38 µm	Acrylic; 38 µm
Adhesive strength	Strong	Strong	Strong
Pierceable	Yes	Yes	Yes
RNase/DNase free	Yes	Yes	Yes

TempPlate® PCR Film

Chemical-resistant film withstands repeated temperature cycles of PCR. Standard size for plates without raised sides. Also available in pre-cut 19 mm x 97.3 mm strips for sealing one or two rows. Certified RNase, DNase, and nucleic acid free.

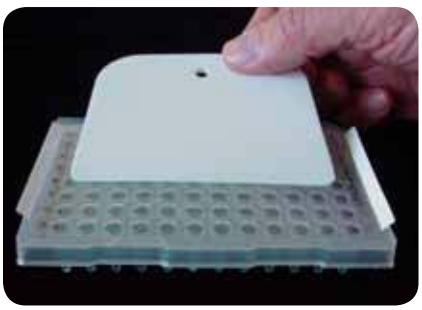
2921-0000	Non-sterile, 100/box	$59.00
2921-0010	Sterile, 100/box	$81.00
2972-0850	Pre-cut strips, 200/box	$57.50



TempPlate® RT qPCR Film

Optically-clear; non-fluorescing adhesive and an ultra-smooth plastic liner minimize distortion for a better signal. Recommended for real-time PCR and crystallography. Certified RNase, DNase, and nucleic acid free. 100 sheets/box.

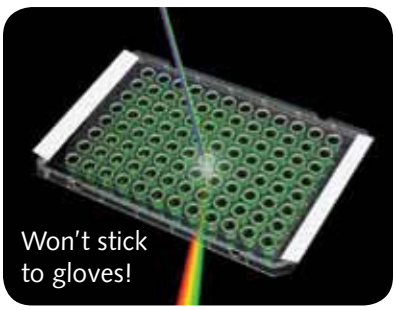
2978-2100	Non-sterile, 50 µm, standard cut	$125.00
2978-2700	Non-sterile, 50 µm, inset cut	$117.00



TempPlate® XP PCR Film

Extra performance sealing film has a strong, flexible base and a thicker adhesive for better adhesion, reduced evaporation, and increased tear resistance. Use for storage or PCR. Certified RNase, DNase, and nucleic acid free. 100 sheets/box.

2972-2100	Non-sterile, standard cut	$70.50
2928-0100	Non-sterile, inset cut	$69.50



TempPlate® RT Select qPCR Film

Optically clear film with strong silicone adhesive prevents evaporation and edge effects. Recommended for real-time PCR and crystallography. The encapsulated adhesive is only released with pressure; samples wells are not exposed to the adhesive. Each box includes one sealing paddle. Certified RNase, DNase, and nucleic acid free. (See page F14 for 65 meter roll.) 100 sheets/box.

2921-7800	Non-sterile	$172.00

Specifications for PCR Sealing Films

	TempPlate®	TempPlate® RT	TempPlate® XP	TempPlate® RT Select
Non-sterile	2921-0000, 2972-0850	2978-2100*	2972-2100*	2921-7800
Sterile	2921-0010	--	--	--
Formats	Standard cut or strips	Standard cut	Standard cut	Inset cut
End tab(s)	2	2	2	2
Temperature range	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-70°C to +100°C
Dimensions with end tabs	79.4 x 135.1 mm	79.4 x 142.9 mm	79.4 x 139.7 mm	78.6 x 139.7 mm
Length excluding tabs	123.1 mm	121.9 mm	125.1 mm	113 mm
Material; thickness	Polypropylene; 50 µm	Polyester; 50 µm	Polyester; 50 µm	Polyolefin; 50 µm
Adhesive; thickness	Acrylic; 25 µm	Acrylic; 25 µm	Acrylic; 41 µm	Silicone; 50 µm
Adhesive strength	Strong	Very Strong	Strongest Available	Strongest Available
Pierceable	No	No	No	No
RNase/DNase free	Yes	Yes	Yes	Yes

*Inset cut 2978-2700 is 77.8 x 130.8/118.1 mm with/without end tabs. 2928-0100 is 77.8 x 135.5/118.1 mm with/without end tabs.

PCR RACKS AND ACCESSORIES

96-Place Compact PCR Tube Rack

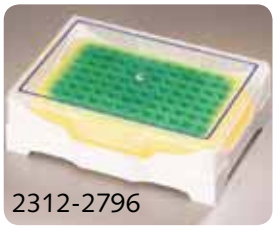
Polypropylene; includes transparent lids with stacking rims. 5″ L x 3½″ D x 1⁵⁄₁₆″ H. See page D15 for more information. Five/pack.

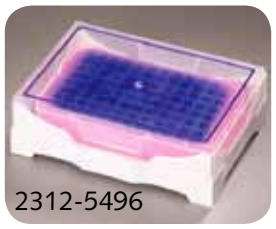
2300-9602 $29.75/pack; 10+ packs $27.25 each

96-Place Stackable PCR Tube/Plate Rack

Holds skirted and non-skirted PCR plates or 0.1/0.2 ml tubes. See page D15 for more information. Five/pack.

2300-9708 $35.55/pack; 10+ packs $32.25 each

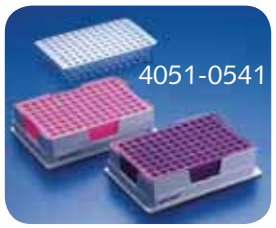




ArcticIce® PCR Chill Rack

Pre-chilled rack slowly warms to and stays at 4°C for over 3 hours. See page D15 for more information. Two/pack.

		1-9	10+
2312-2796	Standard rack, green/yellow	$94.75	$85.75
2312-5496	Standard rack, purple/pink	$94.75	$85.75
2312-2725	Automation rack, purple/pink	$94.75	$85.75



Eppendorf® PCR-Cooler

Keeps 0.2 ml tubes or plates at 0°C for over one hour and between 0°C and 7°C for approximately two hours. The color changes above 7°C. See page D15 for more information.

4051-0541	Pink/purple, one/pack	$72.00
4051-0525	Light blue/dark blue, one/pack	$72.00
4051-0509	One each pink and blue racks	$139.00

Personal PCR Centrifuge

Holds individual or 8-strip 0.1/0.2 ml tubes. Spins at 6000 rpm (2000 x g); on/off switch. Dual rotor model also includes a 6-place rotor for 1.5 ml tubes. See page H3 for more information.

2641-0016	Dual rotor centrifuge	$295.00
2621-0016	PCR tube centrifuge	$275.00

Capping Tool

Seal multiple 0.1/0.2 ml tubes or plates quickly with a rocking motion.

1442-5360 $19.50

Brayer

Soft 4″ rubber roller seals films or foils tightly to eliminate leakage.

9127-2940 $20.75

Sealing Paddle

Polyethylene paddle helps apply firm, even pressure to films and foils. Works with standard or raised side plates. 5/pack.

2928-7355 $7.75

PCR Tube Labels

Teeny Tough-Tags® and Tough-Spots® for 0.2 ml tubes. Temperature range: 9186-1000 and 9188-8690: -40°C to 121°C; 9187-8690: -196°C to 80°C. White only.

9186-1000	0.91″ x 0.32″ on sheets, 3850/box	$63.00
9188-8690	0.81″ x 0.28″ on rolls, 1500/roll	$30.00
9187-8690	3/16″ diameter on rolls, 1500/roll	$40.00

Workstations with Filtration

AirClean® Combination PCR Workstations with HEPA filtration combine an ISO 5 (FS209E) Class 100 clean air environment with UV light sterilization for optimal sample protection. Vertical laminar air flow prevents outside contaminants from entering the work area during manipulation.

The folding front sash provides full access while working. The polypropylene base reflects ultraviolet energy and makes cleaning easier. Clear polycarbonate sides block the transmission of UV energy and will not craze with exposure. There are no joints or gaps in construction that would allow ultraviolet energy to escape during sterilization.

32″ and 48″ workstations have a UVTect™ controller that monitors the effectiveness of the workstation and alerts you if the HEPA filter or UV bulb needs to be replaced. UVTect™ allows manual adjustment of the airflow to accommodate fragile samples. Additional features include a digital 0-59 minute UV light timer and a lab event timer. (24″ combination workstations do not have UVTect™ controllers.)

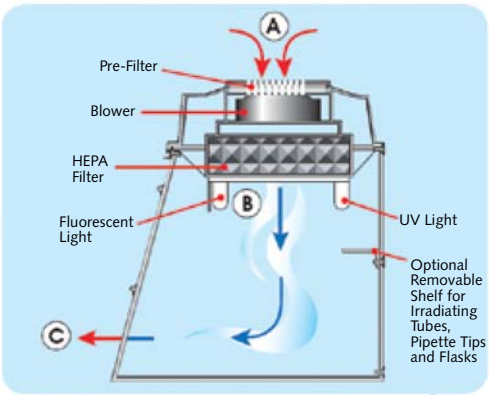
PCR Workstations

4263-2588	32″ W x 24″ D x 30″ H, 110 V	$3250.00
4264-8588	48″ W x 26″ D x 32″ H, 110 V	$4350.00
4262-4588	24″ W x 24″ D x 30″ H, 110 V	$2875.00

Epoxy Coated Steel Support Carts

For PCR Workstations, Dead Air Boxes, and Microscope Enclosures (page H19).

4232-1011	32″ W x 24″ D x 34″ H	$875.00
4248-1039	48″ W x 26″ D x 34″ H	$1045.00
4224-1001	24″ W x 24″ D x 34″ H	$695.00



Room air enters at Ⓐ. Air is forced through the HEPA filter, creating a vertical laminar flow. Clean air enters the working chamber at Ⓑ and exits at Ⓒ. The UV light sterilizes pipet tips, tubes, and other items placed inside.

Combination Workstation Airflow Diagram

Already have an AirClean® workstation?

Keep it working at optimum levels with new bulbs and filters. 48″ units require two filters.

4288-2540	UV bulbs, 4/pack	$185.00
4235-3773	Pre-filters for 32″ units, 12/pack	$175.00
4235-3777	Pre-filters for 48″ units, 12/pack	$235.00
4234-3720	HEPA filter for 32″ units, each	$375.00
4234-3718	HEPA filter for 24″ and 48″ units, each	$325.00

Dead Air Box

The Dead Air Box provides a circulation free environment with UV light sterilization. Includes a fluorescent light and a 0-15 minute mechanical timer for sterilization. A safety interlock switch prevents exposure to UV light when the full access folding sash is raised. Polycarbonate and polypropylene design reflects UV energy. (Does not include the UVTect™ controller or HEPA filtration.)

4263-2532	32″ W x 24″ D x 30″ H, 110 V	$2095.00
4264-8532	48″ W x 26″ D x 32″ H, 110 V	$3150.00
4262-4532	24″ W x 24″ D x 30″ H, 110 V	$1745.00

Eppendorf Mastercycler® nexus Thermal Cyclers

4095-0015

Mastercycler nexus cyclers have a universal sample block and an adjustable height lid. They feature intuitive graphic programming, email notification capability, low power consumption, and a small footprint. Up to two Mastercycler nexus eco units can be connected to the Mastercycler nexus or Mastercycler nexus gradient.

The gradient option features SteadySlope® technology for heating and cooling ramp rates that are identical in both gradient and normal operation. A true gradient with 12 different temperatures is an extremely powerful tool that can help you optimize your PCR. 120 V, 50–60 Hz. Two-year warranty.

4063-3125	Mastercycler nexus gradient	$8100.00
4063-3322	Mastercycler nexus	$7200.00
4063-3229	Mastercycler nexus eco (requires connection to one of the units above)	$5500.00

	Mastercycler® nexus gradient	Mastercycler® nexus	Mastercycler® nexus eco
Thermoblock material	Aluminium		
Sample capacity	96 × 0.2 ml PCR tubes, 1 x 96-well PCR plate, or up to 71 × 0.5 ml PCR tubes		
Block temperature control range	4–99 °C		
Gradient range	1–20 °C, 12 rows	--	--
Gradient temperature range	30–99 °C	--	--
Lid temperature range	37–110 °C with Thermal Sample Protection		
Block temperature accuracy	± 0.2 °C		
Heating rate*, approx.	3 °C/s		
Cooling rate*, approx.	2 °C/s		
Dimensions (W × D × H)	25 × 41.2 × 32.1 cm		
Weight	10.9 kg (24 lbs)	10.9 kg (24 lbs)	10.4 kg (23 lbs)
Interfaces	USB, Ethernet, CAN in, CAN out		CAN in, CAN out

* Heating and cooling rates measured at block

4095-4015

Eppendorf Mastercycler® pro Thermal Cyclers

The Mastercycler pro is unparalleled in reproducibility, specificity and speed. The proprietary ***vapo***.*protect*® technology reduces evaporation to a minimum. Therefore, concentrations in your PCR master mix remain consistent leading to stable and reproducible specificity, and non-specific binding is minimized. For the fastest heating and cooling rates, choose the Mastercycler pro S with the silver block. 120 V, 50–60 Hz. Two-year warranty.

Mastercycler pro can operate as a stand alone unit, a system of 5 units on one control panel, or a computer controlled network of up to 30 units. Units listed below include one control panel. Full specifications are online.

4095-4015	Mastercycler pro, 96-place block	$9,510.00
4095-4025	Mastercycler pro S, 96-place block	$10,337.00
4095-4035	Mastercycler pro 384, 384-place block	$10,026.00

D

LABELS, RACKS, AND BOXES

BESTBOX®
FREEZER RACKS
BESTRACK®
ENZYME STORAGE
TOTALLY TUBULAR®
TUBE RACKS
DIRECT THERMAL PRINTERS
CHILL RACKS
GLACIERbrand™
FREEZER BOXES
CRYOTAGS®
LABORATORY LABELS

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Metal Water Bath Racks.....D14
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Cardboard Boxes.....D21
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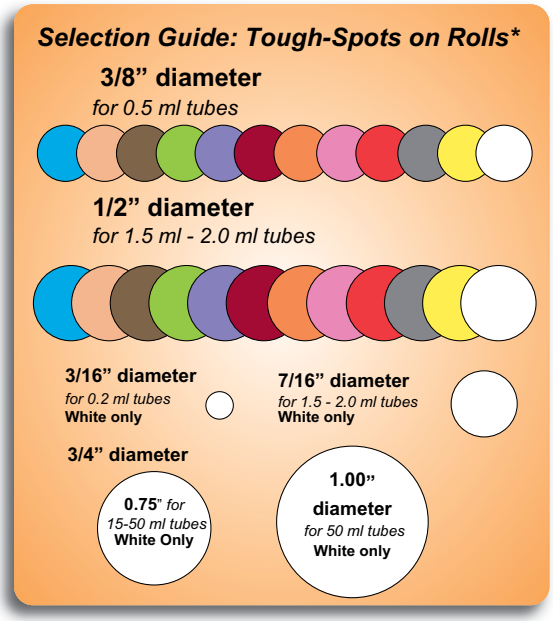
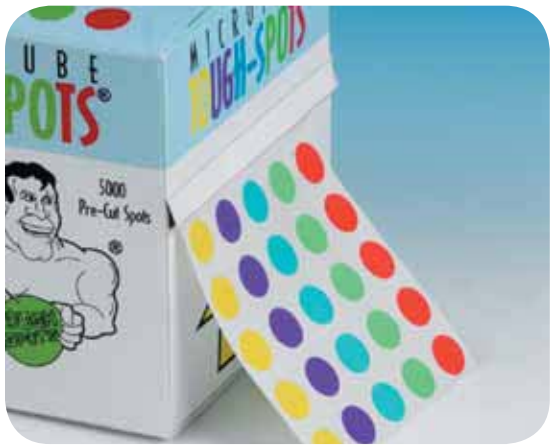
Chest Freezer Racks.....D26
Custom Stainless Steel Racks.....D26

See Section I for additional racks and laboratory organizers.

USA SCIENTIFIC®



*Not to scale.



TOUGH-SPOTS®

Temperature resistant from -196°C to 80°C

Tough-Spots are pre-cut tough vinyl labels that withstand freezing, sustained humidity, or soaking without peeling or becoming brittle. They adhere to most plastics, glass, and metals and are resistant to many chemicals. Supplied in convenient dispenser boxes. All are available in white. 3/8" and 1/2" Tough-Spots are also available in 11 colors.

Tough-Spots

9185-0000	3/8" (9 mm) diameter, white, 1000/roll	$25.00
9185-00XX*	3/8" (9 mm) diameter, colors, 1000/roll	$25.00
9185-0500	1/2" (13 mm) diameter, white, 1000/roll	$25.00
9185-05XX*	1/2" (13 mm) diameter, colors, 1000/roll	$25.00
9185-0750	3/4" (19 mm) diameter, white, 500/roll	$27.00
9185-0100	1" (25 mm) diameter, white, 500/roll	$27.00
9187-8690	3/16" (4.8 mm) diameter, white, 1500/roll	$40.00
9185-4400	7/16" (11 mm) diameter, white, 1000/roll	$25.00

*To order a color replace XX with: 01=blue, 02=green, 03=orange, 04=red, 05=violet, 06=yellow, 07=pink, 14=maroon, 16=gold, 17=coffee, or 18=silver.

5-Across Tough-Spots®

Large rolls of Tough-Spots are convenient for high-volume users. The multicolor roll keeps five colors (blue, green, red, violet, and yellow) of Tough-Spots close at hand. 5000/roll.

5-Across Tough-Spots		$99.50
9175-1000	3/8" (9 mm) diameter, white	
9175-1100	3/8" (9 mm) diameter, multicolor	
9175-2000	1/2" (13 mm) diameter, white	
9175-2100	1/2" (13 mm) diameter, multicolor	

Pre-Printed Tough-Spots®

Convenient, printed 3/8" diameter Tough-Spots save time when labeling and organizing samples.

9176-1000	Numbers 1-10 on white labels, 1000/roll	$25.00
9176-2000	Numbers 1-100 on white labels, 1000/roll	$25.00
9176-3000	Numbers A1-H12 on white labels, 1056/roll	$25.00
9185-7000	Radiation hazard warning, 1000/roll	$25.00
9124-1000	Biohazard warning, 1000/roll	$25.00

CRYO-BABIES® AND CRYOTAGS® on Rolls

Temperature resistant from -196°C to 150°C

Cryo-Babies and Cryo-Tags are flexible, polyvinyl labels for conventional and cryogenic freezer storage (vapor and liquid phase nitrogen storage at -196°C). They adhere strongly to plastics, glass, and metal and can withstand autoclaving, boiling, water baths, or boiling, water baths, dry heat up to 150°C without peeling, cracking, or degrading. They are resistant to most chemicals and will stand up to soaking at room temperature or 100% relative humidity at 35°C for at least 24 hours.

Cryo-Babies and Cryo-Tags will accept any marking instrument. 1000 labels/roll.

Cryo-Babies and Cryo-Tags

9188-0500	0.94″ x 0.5″, for 0.5 ml tubes, white	$30.00
9188-2000	1.28″ x 0.5″, for 1.5-2.0 ml tubes, white	$30.00
9188-200X*	1.28″ x 0.5″, for 1.5-2.0 ml tubes, colors	$35.00 **NEW**
9188-1500	1.5″ x 0.75″, for general use, white	$30.00
9188-150X*	1.5″ x 0.75″, for general use, colors	$35.00 **NEW**

*To order a color replace X with 1=blue, 2=green, 3=orange, 4=red, 6=yellow.

TOUGH-TAGS® on Rolls

Temperature resistant from -40°C to 121°C

Tough-Tags are flexible polyester labels that can withstand autoclaving, boiling, water baths, freezing to -40°C, or heating up to 121°C without peeling, cracking, or falling off. They adhere strongly to plastics and other materials and are resistant to most chemicals.

Tough-Tags will accept any marking instrument. Lab markers dry quickly and resist fading. Tough-Tags are thin and will not stop tubes from fitting into centrifuge rotors. 1000 labels/roll.

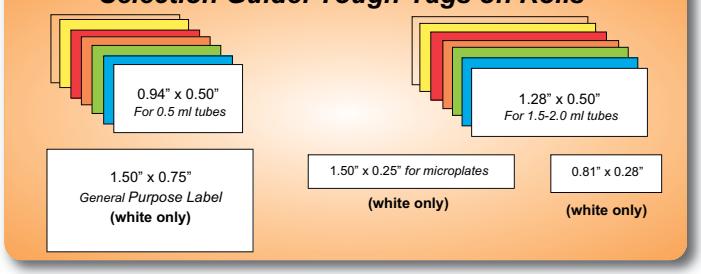
Tough-Tags

9188-1000	0.94″ x 0.5″, for 0.5 ml tubes, white	$25.00
9188-100X*	0.94″ x 0.5″, for 0.5 ml tubes, colors	$29.00
9172-1000	0.94″ x 0.5″, for 0.5 ml tubes, clear	$29.00
9187-1000	1.28″ x 0.5″, for 1.5-2.0 ml tubes, white	$25.00
9187-100X*	1.28″ x 0.5″, for 1.5-2.0 ml tubes, colors	$31.50
9152-1000	1.28″ x 0.5″, for 1.5-2.0 ml tubes, clear	$31.50
9188-7925	1.5″ x 0.25″, for microplates, white	$30.00
9147-1000	1.5″ x 0.75″, for general use, white	$45.00

*To order a color replace X with 1=blue, 2=green, 3=orange, 4=red, 6=yellow.

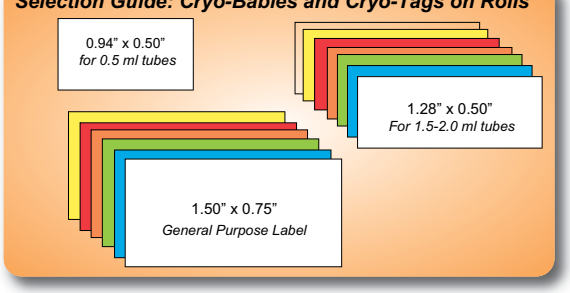
NOTE: Tubes must be dry when applying Tough-Spots, Tough-Tags, Cryo-Babies, or Cryo-Tags. Labels may not adhere well if tubes are not pure polypropylene or if tubes contain silicone or other additives.

Selection Guide: Tough-Tags on Rolls*



*Not to scale.

Selection Guide: Cryo-Babies and Cryo-Tags on Rolls*



*Not to scale.

CRYO-BABIES® AND CRYOTAGS® for Laser Printers

Temperature resistant from -196°C to 150°C

Cryo-Babies and Cryo-Tags are designed for difficult conditions. Unique combination of flexible polyolefin label and acrylic adhesive expands and contracts together through temperature fluctuations. The result is a strong adhesive bond that withstands cold storage (conventional freezers, vapor, and liquid phase nitrogen); autoclaving; boiling water baths; or dry heat up to 150°C without peeling, cracking, or degrading. They are resistant to most chemicals.

Labels on 8½" x 11" sheets for laser printers include instructions for printing with Microsoft® Word. Selected labels are available in separate and assorted colors (four sheets each blue, green, orange, red, and yellow).

Cryo-Babies and Cryo-Tags $60.00

9187-2380* 0.94" x 0.5", for 0.5 ml tubes, white, 2380/pack
9187-1700* 1.28" x 0.5", for 1.5-2.0 ml tubes, white, 1700/pack
9188-7433* 1.5" x 0.25", for microplates, white, 3120/pack
9187-1200* 1.5" x 0.75", for general use, white, 1200/pack
9187-1100* 1.69" x 0.75", for cryo tubes, white, 1040/pack
9187-1258 2.625" x 1", for racks and boxes, white, 600/pack
9187-3020 3" x 2", for bottles and beakers, white, 240/pack
9187-0100 1.28" x 0.50" and 3/8" combo, 1360 sets/pack

* To order a color replace the last two digits of the catalog number with 01=blue, 02=green, 03=orange, 04=red, 06=yellow, 08=assorted.

CRYO-CLEAR LASER LABELS

for Laser Printers

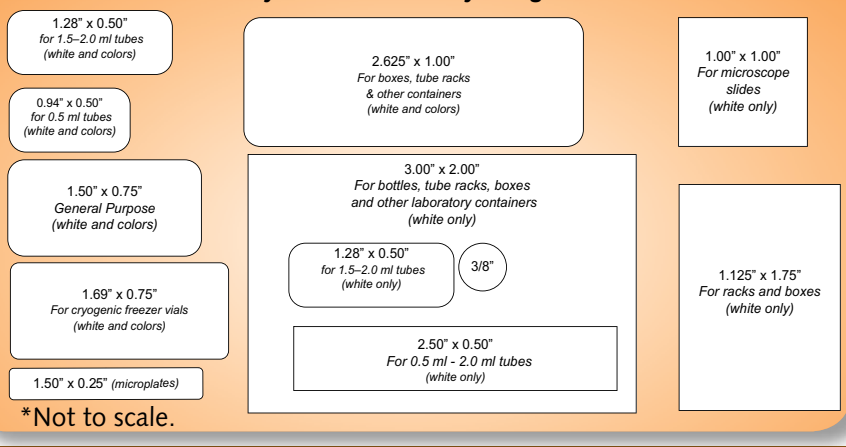
Temperature resistant from -196°C to 70°C

Clear labels let you view tube contents easily. Designed for extreme cold storage in liquid or vapor phase nitrogen. Adheres to polypropylene, glass, and metals without cracking, peeling, or degrading. 8½" x 11" sheets.

Cryo-Clear $60.00

9125-0238 0.94" x 0.5", for 0.5 ml tubes, 2380/pack
9125-0170 1.28" x 0.5", for 1.5 ml tubes, 1700/pack

*Selection Guide: Cryo-Babies and Cryo-Tags for Laser Printers**



*Not to scale.

Selected sizes are available in colors.

Blue	Green	Orange
Red	Yellow	White

NOTE: Tubes must be dry when applying labels. Labels may not adhere well if tubes are not pure polypropylene or if tubes contain silicone or other additives.

TOUGH-TAGS® for Laser Printers

Temperature resistant from -40°C to 121°C

Tough-Tags are flexible polyester labels that can withstand autoclaving, boiling water baths, freezing to -40°C, or heating up to 121°C without peeling, cracking, or falling off. They adhere strongly to plastics and other materials and are resistant to most chemicals. Tough-Tags are thin and will not stop tubes from fitting into centrifuge rotors.

Heat-resistant 8½″ x 11″ sheets stay flat and will not jam in laser printers. Includes instructions for printing with Microsoft® Word. Selected labels are available in assorted colors (five sheets each blue, green, orange, red, and yellow).

Tough-Tags, Opaque $63.00

9185-2240*	0.94″ x 0.5″, for 0.5 ml tubes, white, 2975/pack
9187-2016	1.28″ x 0.5″, for 1.5-2.0 ml tubes, white, 2125/pack
9187-2X16**	1.28″ x 0.5″, for 1.5-2.0 ml tubes, colors, 2125/pack
9147-1050*	1.5″ x 0.75″, for general use, white, 1500/pack
9135-1000	2.5″ x 0.5″, for 0.5-2.0 ml tubes, white, 1500/pack
9186-1000	0.91″ x 0.32″, for 0.2 ml PCR tubes, white, 3850/pack
9164-1000*	0.88″ x 088″, for slides, white, 2400/pack
9184-1000	1.0″ x 1.0″, for slides or general use, white, 1600/pack

Tough-Tags, Clear $63.00

9115-3000	1.05″ x 0.50″, for 0.5 ml tubes, 1920/pack
9115-2000	1.50″ x 0.50″, for 1.5-2.0 ml tubes, 1600/pack
9115-1000	1.50″ x 0.75″, for general use, 1200/pack

*To order a color replace the last digit of the catalog number with 1=blue, 2=green, 3=orange, 4=red, 6=yellow, 8=assorted.

**To order a color, replace X with 1=blue, 2=green, 3=orange, 4=red, 6=yellow, 8=assorted.

NOTE: Tubes must be dry when applying labels. Labels may not adhere well if tubes are not pure polypropylene or if tubes contain silicone or other additives.

Selection Guide: Tough-Tags for Laser Printers

1.28" x 0.50"
for 1.5–2.0 ml tubes

0.94" x 0.50"
For 0.5 ml tubes

1.50" x 0.75"
General Purpose Label

0.875"
square for microscope slides

Selected opaque Tough-Tags are available in individual colors or assorted packs. (5 sheets of each color)

Blue | ***Green*** | ***Orange*** | ***Red*** | ***Yellow***

1.50" x 0.75"
General Purpose

1.50" x 0.50"
For 1.5-2.0 ml tubes

1.05" x 0.50"
For 0.5 ml tubes

Available in CLEAR only

1.00" x 1.00"
for microscope slides

2.50" x 0.50"
for 1.5–2.0 ml tubes

0.91" x 0.32"

Available in White only

2.625" x 0.1875"

1.625" x 0.625"
General Purpose Label

TOUGH-SPOTS®
for Laser Printers

Temperature resistant from -196°C to 150°C

Tough-Spots are designed for difficult conditions. Unique combination of flexible polyolefin label and acrylic adhesive expands and contracts together through temperature fluctuations. The result is a strong adhesive bond that withstands cold storage (conventional freezers, vapor, and liquid phase nitrogen), autoclaving, boiling, or dry heat up to 150°C without peeling, cracking, or degrading. They are resistant to most chemicals.

Heat-resistant 8½" x 11" sheets stay flat and will not jam in laser printers. Includes instructions for printing with Microsoft® Word. Instructions are also available at www.usascientific.com. Selected labels are available in assorted colors (four sheets each blue, green, orange, red, and yellow). Polyolefin. 20 sheets/box.

Tough-Spots		$60.00
9185-1000*	3/8" (9.5 mm), for 0.5 ml tubes, 3840/pack, white	
9185-2000*	½" (13 mm), for 1.5-2.0 ml tubes, 3840/pack, white	
9185-5000	7/16" (11mm), for 1.5-2.0 ml tubes, 4680/pack, white	
9185-3000	¾" (19 mm), for 15 ml tubes, 2160/pack, white	
9185-4000	1" (25 mm), for 50 ml tubes, 1260/pack, white	

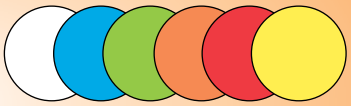
*To order a color replace the last digit of the catalog number with 1=blue, 2=green, 3=orange, 4=red, 6=yellow, 8=assorted.

NOTE: Tubes must be dry when applying labels. Labels may not adhere well if tubes are not pure polypropylene or if tubes contain silicone or other additives.

Selection Guide: Tough- Spots for Laser Printers

3/8" diameter
for 0.5 ml tubes

1/2" diameter
for 1.5 ml - 2.0 ml tubes



***Assorted packs contain 4 sheets each of blue, green, orange, red and yellow.**

7/16" diameter
for 1.5 ml - 2.0 ml tubes
White only

3/4" diameter
for 15-50 ml tubes
White Only

1.00" diameter
for 50 ml tubes
White only

CRYOTAGS®

for Direct Thermal Printers

Temperature resistant from -196°C to 70°C

Print laboratory labels and barcodes on a roll from your computer. Direct Thermal Cryo-Tags® work with convenient Dymo® desktop printers. Ideal for laboratories that need an alternative to sheet labels. Solvent resistant; recommended for storage from -196°C to 70°C. White, blue, green, or yellow labels are on 1″ diameter core rolls.

The Dymo® LabelWriter® 450 printer is compatible with PCs or Mac computers. Cryo-Tags require definition files that can be downloaded free of charge from www.usascientific.com/labels.

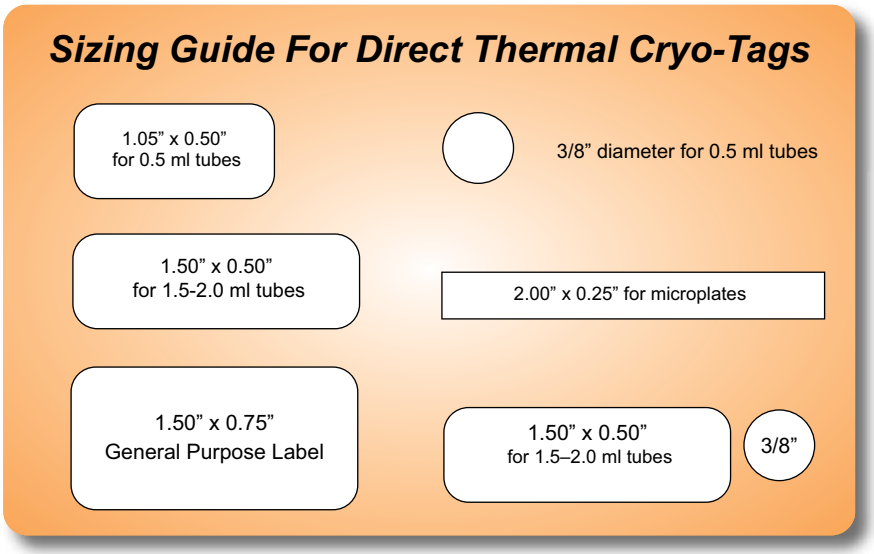
Direct Thermal Cryo-Tags

9138-1000	1.05″ x 0.50″, for 0.5 ml tubes, white, 1000/roll	$43.00
9138-100X*	1.05″ x 0.50″, for 0.5 ml tubes, colors, 1000/roll	$43.00
9138-2750	1.50″ x 0.50″, for 1.5 ml tubes, white, 750/roll	$40.00
9138-275X*	1.50″ x 0.50″, for 1.5 ml tubes, colors, 750/roll	$40.00
9138-3750	1.50″ x 0.75″, for 2.0 ml tubes, white, 750/roll	$42.00
9138-375X*	1.50″ x 0.75″, for 2.0 ml tubes, colors, 750/roll	$42.00
9138-4000	3/8″ diam., for 0.5-2.0 ml tubes, white, 4000/roll	$61.00
9138-400X*	3/8″ diam., for 0.5-2.0 ml tubes, colors, 4000/roll	$61.00
9138-5000	2.00″ x 0.25″, for microplates, 1000/roll	$79.00
9138-6000	1.50″ x 0.50″ and 3/8″ combo, white, 500 sets/roll	$58.00
9138-600X*	1.50″ x 0.50″ and 3/8″ combo, colors, 500 sets/roll	$58.00
9127-0450	Dymo® LabelWriter® 450 Printer	$225.00

* To order a color replace the last digit of the catalog number with 1=blue, 2=green, 6=yellow.

NOTE: Tubes must be dry when applying labels. Labels may not adhere well if tubes are not pure polypropylene or if tubes contain silicone or other additives.

Sizing Guide For Direct Thermal Cryo-Tags



NEW!
NOW AVAILABLE IN COLORS.

WETGRIP Labels

WetGrip labels adhere to wet, frost-covered, and frozen surfaces. Resistant to common laboratory solvents, they are ideal for plastic, glass, metal, and paperboard surfaces. Choose labels on rolls for hand printing, sheets for laser printers, or rolls for direct thermal printers.

WetGrip™ on Rolls
Temperature resistant from -80ºC to 100ºC
White labels on rolls for use with most laboratory marking pens.

9146-1000	1.28″ x 0.50″, for 1.5-2.0 ml tubes, 1000/roll	$35.00
9146-2000	1.50″ x 0.75″ for general use, 1000/roll	$35.00

WetGrip™ for Laser Printers
Temperature resistant from -40ºC to 100ºC
White labels on 8½″ x 11″ sheets.

9145-2380	0.94″ x 0.50″ for 0.5 ml tubes, 2380/pack	$63.00
9145-2160	1.28″ x 0.50″, for 1.5-2.0 ml tubes, 1700/pack	$63.00
9145-1050	1.50″ x 0.75″ for general use, 1500/pack	$63.00
9145-1000	0.875″ x 0.875″, for slides, 2400/pack	$63.00

WetGrip™ for Direct Thermal Printers
Temperature resistant from -80ºC to 70ºC
White labels on 1″ ID core rolls for Dymo® 450 direct thermal printers.

9143-1000	1.05″ x 0.50″ for 0.5 ml tubes, 1000/roll	$45.00
9143-2750	1.50″ x 0.50″, for 1.5 ml tubes, 750/roll	$50.00
9143-3750	1.50″ x 0.75″, general use, 750/roll	$45.00
9143-4000	⅜″diameter for 0.5-2.0 ml tubes 4000/roll	$65.00
9143-5000	2.00″ x 0.25″, for microplates, 1000/roll	$75.00
9143-6000	1.5″ x 0.5″ and ⅜″ combo, 500 sets/roll	$60.00

LABEL ACCESSORIES

Tough-Tag Station

Keep up to six rolls of Tough-Tags®, Tough-Spots®, or Cryo-Babies® in this convenient acrylic holder. The cutting ledge makes it easy to detach the right amount of labels. (Accepts labels packaged in standard 3.25″ deep boxes and the 5-Across Tough-Spots format. Not for use with 9185-0100 Tough-Spots, 9188-1500 Cryo-Tags, 9147-1000 General Purpose Tough-Tags, or Direct Thermal labels.)

9172-9000 $59.50

Lab Markers
Markers resist solvents such as xylene, alcohol, acetone and formalin when used with labels on rolls (Tough-Tags®, Cryo-Tags®, etc.). May also be used on frosted glass. Not recommended for direct use on polypropylene, polyethylene, or similar surfaces. Extra fine 0.6 mm tip. Markings on plastic may be removed with acetic acid, isopropanol, ethanol/xylene mixtures, or paraffin.

9173-1220

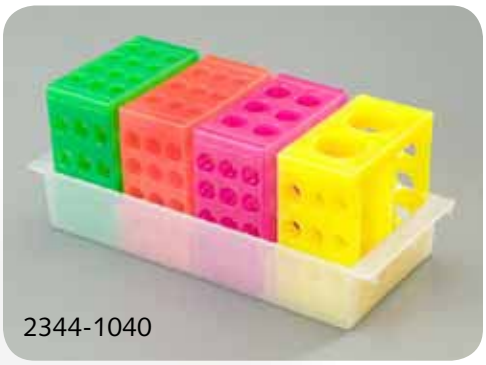
9173-1220	Black ink	$5.95
9173-1300	Red ink (not shown)	$5.95

Totally Tubular®

Modular rack includes four removable blocks that can be positioned to support four sizes of tubes. Durable polypropylene withstands freezing and autoclaving. Mixed standard colors include blue, green, red, and yellow. Mixed neon colors include orange, green, pink, and yellow. Complete set measures 9½" L x 4" W x 3¾" H.

Ideal for 15 and 50 ml conical tubes; 1.5 and 2.0 ml microcentrifuge tubes; and 12 x 75, 13 x 100, 16 x 125, and 17 x 100 mm culture tubes.

2344-1000	Standard colors, one set	$36.75
2344-4000	Standard colors, four sets (case)	$137.00
2344-1040	Neon colors, one set	$36.75
2344-4040	Neon colors, four sets (case)	$137.00


2344-1040

2344-1000

Modular Tube Station

Modular polypropylene workstation holds many different tube sizes. Connect the individual blocks together with a twist to create an expandable rack with variable configurations or lengths. One pack contains four blocks, one each blue, green, red, and yellow.

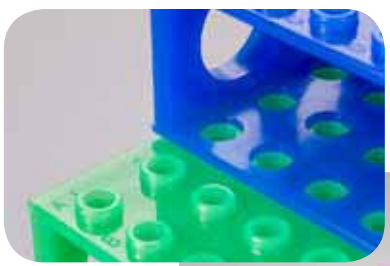
Each block will hold two 50 ml, eight 15 ml, twelve 1.5 or 2.0 ml, six 0.5 ml, 48 0.2 ml PCR, or six 8-tube PCR tube strips. Two components will hold one 96-well PCR plate or eight 12-tube PCR tube strips. Autoclavable.

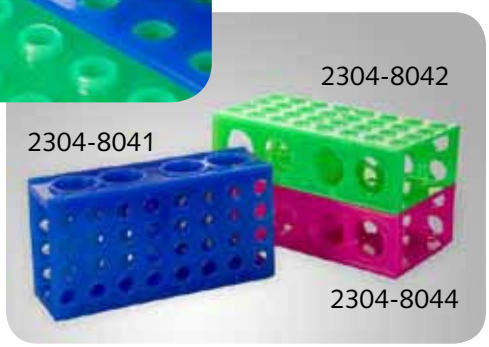
2354-1000 $50.50

4-Way Rack

Polypropylene rack stands on any of four sides to support a variety of tubes: 4 x 50 ml, 12 x 15 ml, 32 x 1.5/2.0 ml, or 32 x 0.5 ml. Racks can be joined together to support several sets of 50 and 15 ml tubes. One per pack. Measures 6¾" x 3⅝" x 2³/₁₆". Autoclavable.

		1-9	10+
2304-8041	Neon blue	$10.25	$9.00
2304-8042	Neon green	$10.25	$9.00
2304-8044	Neon pink	$10.25	$9.00

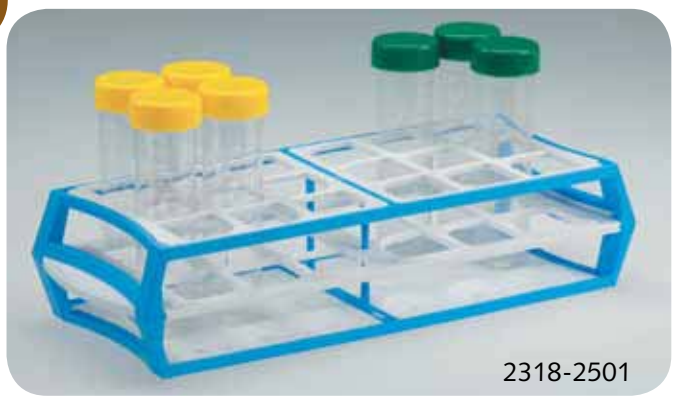



2304-8042

2304-8041

2304-8044

Prices and products subject to change without notice. See www.usascientific.com for current information.



2318-2501

Polymer Tube Rack

Acetal polymer racks hold a variety of tubes and are resistant to most laboratory chemicals. Suitable for water baths, freezers, incubators, and many other uses. Unlike coated metal racks, they will not peel or rust. Racks measure 11 11/16" L x 4½" W x 2½" H. Autoclavable.

*Remove caps from 15 ml and 50 ml tubes for maximum capacity.

		1-9	10+
2318-2501	18-place rack for 30 mm or 50 mm tubes*, blue	$21.50	$17.00
2384-1602	60-place rack for 16 mm or 15 ml tubes*, green	$21.50	$17.00
2384-1306	84-place rack for 13 mm or culture tubes, yellow	$21.50	$17.00

2384-1602

2384-1306

BestRack® Jr.

Reversible 64-place polypropylene rack holds 1.5 and 2.0 ml tubes on one side or 0.5 ml tubes on the other. Also holds most screw cap microcentrifuge tubes and cryogenic vials. Features alphanumeric sample identification and a transparent lid with two frosted labeling areas. Mixed standard colors include blue, green, orange, red, yellow, violet, and natural. Mixed neon colors include blue, green, orange, red, yellow, natural, and black. Measures 5 1/8" L x 5 1/8" W x 2" H with lid and fits inside standard freezer racks.

		1-9	10+
2364-1008	Standard colors, 7/pack	$58.25	$50.00
2364-1048	Neon colors, 7/pack	$58.25	$50.00
2364-1000	Natural, 7/pack	$58.25	$50.00

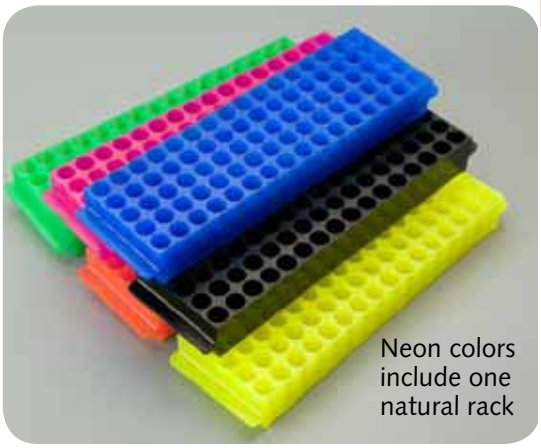
See pages D22, D23, and D26 for information on stainless steel freezer storage racks for BestRack Jr.

80-Place Tube Rack

Polypropylene 80-place tube rack holds 1.5 ml and 2.0 ml tubes, including screw cap tubes. Withstands freezing (-90°C) or autoclaving. Mixed standard colors include blue, green, orange, red, yellow, violet, and natural. Mixed neon colors include blue, green, orange, pink, yellow, natural, and black. Measures 9″ L x 2⅝″ W x 1⅛″ H.

NEW! Hinged polypropylene container helps keep 80-place racks neatly stored and organized. Measures 9⅓″ x 3⅓″ x 2⅛″ high. Natural color.

		1-9	10+
2380-1008	Mixed standard racks, 7/pack	$39.25	$35.75
2380-1048	Mixed neon racks, 7/pack	$39.25	$35.75
2380-1000	Natural racks, 7/pack	$39.25	$35.75
2380-2000	Hinged containers, 5/pack	$22.00	$19.80



Reversa-Rack™

Reversible polypropylene 80-place rack. One side holds 1.5 ml, 2.0 ml, 12 x 75 mm and most cryo storage tubes. The other side holds up to sixty 0.5 ml and 0.2 ml tubes. Detachable handles for easy stacking. Removable clips connect racks for large experiments. Withstands freezing (-90°C) or autoclaving. Mixed neon colors include blue, green, orange, red, and yellow. Measures 9³⁄₁₆″ L x 2¹³⁄₁₆″ W x 2½″ H with handles and clips and 9³⁄₁₆″ x 2⅝″ x 1¹⁄₁₆″ without handles and clips.

2380-2408	
Pack of 5 racks	$31.25
10+ packs, each	$28.25

Acrylic Holders for 80-Place Racks

Keep racks organized on the bench or in -20°C freezers. Shelves slide out for easy access or cleaning. Holds nine standard 80-place racks. Top rim and non-slip feet ensure secure stacking. Measures 10″ W x 9¼″ D x 9¾″ H x ¼″ thick. 80-place racks sold separately.

3014-0207	$136.25

MiniFlip Rack

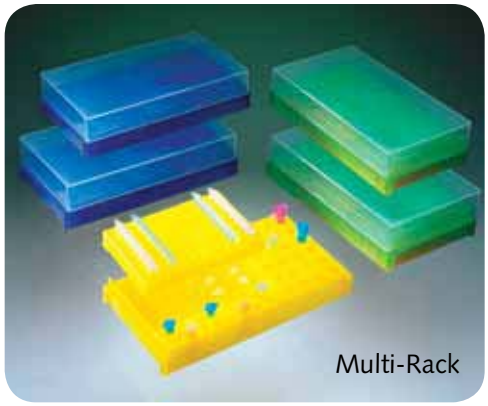
One MiniFlip™ rack supports 60 PCR tubes on one side and 1.5 or 2.0 ml tubes (24) and 0.5 ml tubes (16) on the other. Lock multiple blocks together for larger experiments. Clear lids (included) cover two connected racks for storage. A single rack measures 130 mm L x 54 mm W x 35 mm H. Two racks together with a lid measure 133 mm L x 107 mm W x 56 mm H. One pack includes four blocks, one each of blue, green, red, and yellow, and two lids. Autoclavable polypropylene.

2353-1200 $40.25

Combo Tube Rack

One side of this polypropylene rack has 32 places for 1.5 or 2.0 ml tubes and 8 places for 0.5 ml tubes; the reverse side holds 32 x 0.5 ml tubes and 8 x 1.5 or 2.0 ml tubes. The rows and columns are marked for easy sample identification. Withstands freezing (-90°C) or autoclaving. Mixed neon colors include blue, green, orange, pink, yellow, natural, and black. Measures 6⅝″ L x 3¼″ W x 2″ H with lid.

		1-9	10+
2332-1048	Mixed neon colors, 7/pack	$50.25	$43.00



Multi-Rack

Polypropylene rack holds four sizes of tubes: 0.2 ml individual (32), 0.2 ml in strips (96), 0.5 ml (16), and 1.5 or 2.0 ml (24). The 96-place inset rack is removable. Measures 8½″ L x 4⅝″ W x 2″ H with transparent lid.

		1-9	10+
2324-2041	Blue, 2/pack	$32.50	$29.50
2324-2042	Green, 2/pack	$32.50	$29.50
2324-2046	Yellow, 2/pack	$32.50	$29.50

Flexirack

Modular tiered rack holds a wide variety of tube sizes and lets you create a workstation based on your needs. Color coded polypropylene inserts have quick release tabs for easy repositioning. Optional reagent basin inserts hold your working solutions.

Complete system includes two racks, two stacking brackets, and twelve inserts: 1.5 ml (6), 0.5 ml (2), 15 ml (2), and 50 ml (2). Additional inserts and basins are available at www.usascientific.com.

3807-6000 Complete Flexirack system $62.00

Easy release tabs allow quick insert changes.

Optional reagent basin

BestRack® 96-Place Reversible Rack

Reversible rack holds 96 samples in an 8 x 12 array with alphanumeric sample identification. One side holds 1.5 and 2.0 ml tubes and the other side holds 0.5 ml tubes. The transparent lid has a snug fit and is tall enough to store most screw-cap microcentrifuge tubes.

Mixed neon pack includes blue, green, orange, pink, and yellow racks with natural lids. See www.usascientific.com for additional colors. Measures 8 7/16" L x 4 5/8" W x 2" H with lid and has frosted labeling areas on four sides. Polypropylene; withstands freezing (-90°C) and autoclaving.

		1-9	10+
2396-5048	Mixed neon colors, 5/pack	$53.25	$45.50
2396-5000	Natural, 5/pack	$53.25	$45.50
2396-5001	Blue, 5/pack	$53.25	$45.50
2396-5002	Green, 5/pack	$53.25	$45.50

Acrylic BestRack® Holder

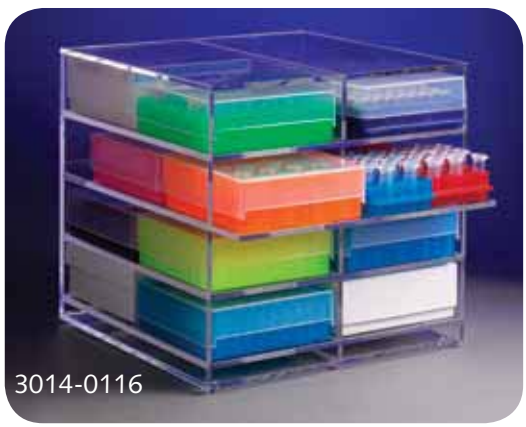
Organize ten 96-place BestRack racks with lids for bench top or -20°C storage. Shelves slide out for easy access or cleaning. Top rim and non-slip feet for stacking. Measures 10½" W x 8¾" D x 14" H. Made from ¼" thick acrylic. Shipping weight: 12 pounds. Racks sold separately.

3014-0110 $144.50

Acrylic Box and Rack Holder

Eight-section organizer holds sixteen 5¼" x 5¼" x 2" H boxes or 80-place racks. Shelves slide out for easy access or cleaning. Measures 11¼" W x 10¾" D x 10½" H. Made from ¼" thick acrylic. Shipping weight: 13 pounds. Racks and boxes sold separately.

3014-0116 $147.75



Made to Measure and Custom Acrylics

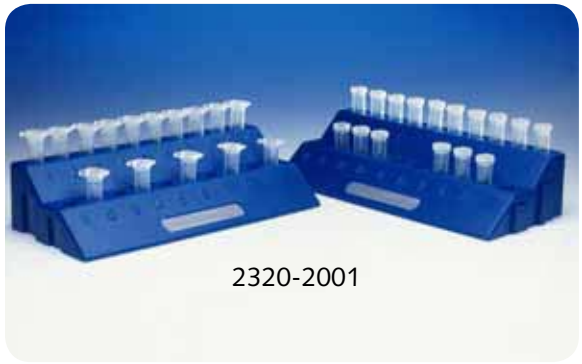
USA Scientific makes acrylic racks, boxes, shields, and other items. We can create a product for you or modify one of our standard items. For more information, please call 800-522-8477 or complete our on-line custom acrylics form. Price estimates provided at no charge.

Beaker Buddy™

Anodized aluminum rack keeps microcentrifuge tubes closed while boiling. Place the tubes in the rack and screw on the handle to hold down the cover. Long handle (5⅛" L) assists removal from hot beakers. Rack measures 3½" in diameter and holds up to 16 tubes.

- For 1.5 and 2.0 ml tubes
- Fits standard 800 ml or larger beakers
- Thermometer slot for monitoring temperature
- Aluminum legs for free-standing use
- Non-corrosive

2016-7801	$55.50



Tiered Rack

Two levels for easy access to all tubes. Blue polypropylene rack holds twenty 1.5 ml tubes in individually numbered slots that aid sample identification. Measures 8⅜" L x 3½" W x 2" H. Freezer and autoclave safe. Two racks/pack.

- Open bottom for use in ice buckets
- Interlock racks for larger experiments

2320-2001	$22.00

Acrylic Racks

Clear acrylic racks shield beta emitting samples stored in microcentrifuge tubes. See page I7 for complete information.

3008-0000	8-place rack	$30.25
3008-2415	39-place rack	$44.50

Floating Foam Tube Racks

High-density polyethylene foam racks float in water baths, tubs, or beakers. Closed-cell foam resists water absorption so racks can be washed and reused. The 18-place round blue rack measures 3.25" in diameter and holds 0.2 ml, 0.5 ml, 1.5 ml, or 2.0 ml tubes. The 24-place rectangular yellow rack holds 1.5 ml or 2.0 ml tubes. Racks include handles.

9138-7540	18-place round blue rack, 5/pack	$16.25
9138-7510	24-place rectangular yellow rack, 5/pack	$16.25
9138-7520	8-place blue rack for 15 ml tubes, 5/pack	$16.25
9138-7530	4-place green rack for 50 ml tubes, 5/pack	$16.25

Compact PCR Tube Rack

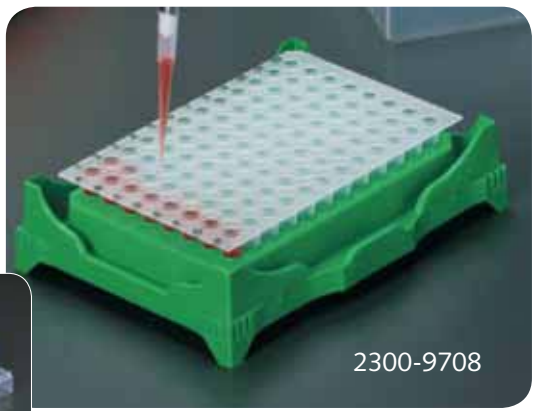
Compact rack holds 0.1 ml and 0.2 ml individual or strip tubes. Polypropylene rack withstands freezing (-90°C) and autoclaving. Includes transparent lids with stacking rims for safer storage and transport. Measures 5″ L x 3½″ D x 1⁵⁄₁₆″ H. Five mixed neon (blue, green, orange, pink, and yellow) racks and natural lids per pack.

2300-9602

Pack of 5 racks	$29.75
10+ packs, each	$27.25

Stackable PCR Rack

Stackable rack holds skirted and non-skirted 96-well PCR plates or 0.1/0.2 ml tubes. The clear lid snaps into the base for secure storage. May be stacked with or without the lid. Measures 5½″ L x 4¹⁄₈″ W x 1⁹⁄₁₆″ H (1³⁄₁₆″ H without lid). Assorted pack of blue, green, red, violet, and yellow racks. Polypropylene.

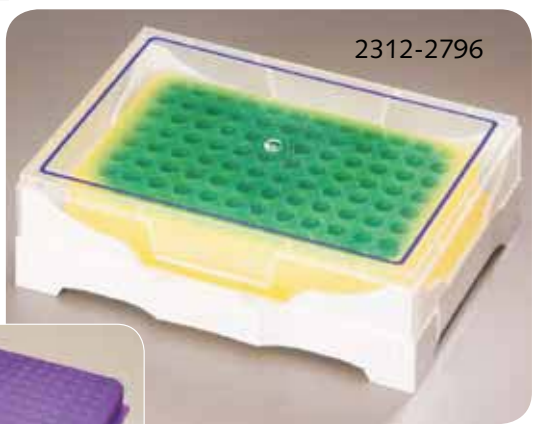


2300-9708

Pack of 5 racks	$35.55
10+ packs, each	$32.25

ArcticIce® PCR

Chill rack for 0.2 ml tubes changes color as the temperature increases above 7°C. When thoroughly chilled at -20°C before use, the rack will slowly rise above 0°C and remain below 4°C for almost four hours. Standard version measures 5.56″ L x 3.9″ W x 1.74″H (141 mm x 99 mm x 44 mm) with the locking lid. Automation version is 128 mm x 85 mm x 26 mm, does not include a lid, and maintains 4°C for over 2.5 hours. Two racks per pack.

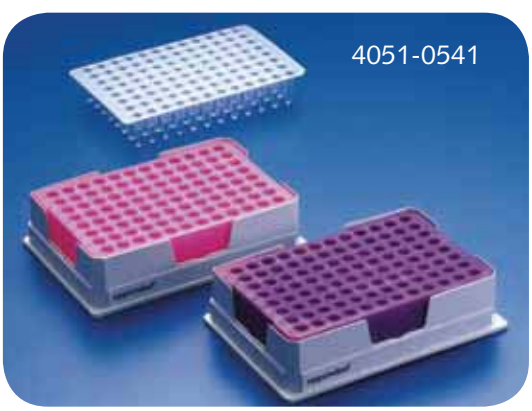


Color change occurs at 7°C

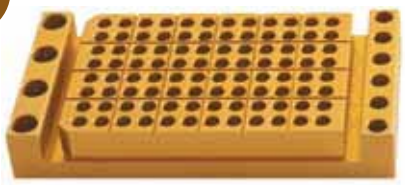
		1-9	10+
2312-2796	Standard rack, green/yellow	$94.75	$85.75
2312-5496	Standard rack, purple/pink	$94.75	$85.75
2312-2725	Automation rack, purple/pink	$94.75	$85.75

Eppendorf® PCR-Cooler

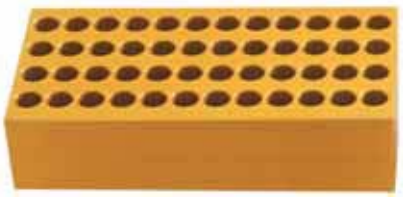
Keeps 0.2 ml tubes or plates at 0°C for over one hour and between 0°C and 7°C for approximately two hours. The color changes (purple to pink or dark blue to light blue) when the temperature exceeds 7°C. Use to prepare cycle sequencing reactions, restriction digestions, or prevent non-specific primer annealing. Pre-chill before use.



4051-0541	Pink/purple	$72.00
4051-0525	Light blue/dark blue	$72.00
4051-0509	Pink and blue, set of 2 racks	$139.00



9124-0100



9124-3000

9124-5000

9124-8000

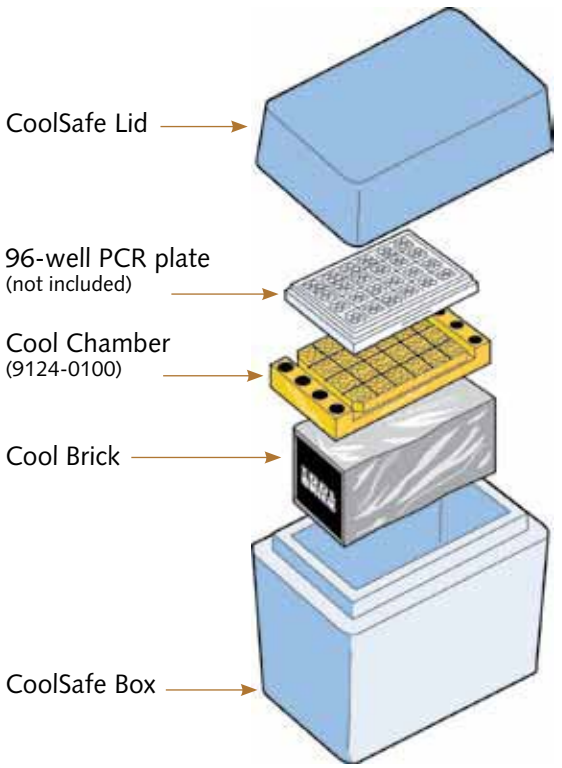
CoolSafe™ Chambers

Anodized aluminum blocks provide rapid transfer of cooling or heating procedures to your samples. Use with ice buckets or water baths to prevent tubes from getting wet, or with hot plates to provide wrap around heat. See www.usascientific.com for additional blocks. Selected chambers are compatible with CoolSafe storage systems (see below).

CATALOG NO.	TUBE OR PLATE TYPE AND CAPACITY	DIMENSIONS L x W x H	PRICE
9124-0100*	96-well PCR; 6 x 0.5 ml; 4 x 1.5 ml	6 1/8" x 3 1/8" x 1"	$214.00
9124-1020	2 x 96-well PCR; 12 x 0.5 ml; 8 x 1.5 ml	6 1/8" x 6 3/4" x 1"	$368.00
9124-3000*	48 x 1.5 ml	6 1/8" x 3 1/8" x 1 1/2"	$189.00
9124-3840*	384-well PCR; 6 x 0.5 ml; 4 x 1.5 ml	6 1/8" x 3 1/8" x 1"	$265.00
9124-5000*	24 x 0.2 ml; 35 x 0.5 ml; 20 x 1.5 ml	6 1/8" x 3 1/8" x 1 1/2"	$189.00
9124-6000	6 x 15 ml	3 1/2" x 1 3/4" x 3 1/2"	$189.00
9124-6050	12 x 15 ml	3 1/2" x 3 1/2" x 3 1/2"	$190.00
9124-7000	2 x 50 ml	3 1/2" x 1 3/4" x 3 1/2"	$162.00
9124-7050	4 x 50 ml	3 1/2" x 3 1/2" x 3 1/2"	$189.00
9124-8000	80 x 1.5 ml	8 1/4" x 2 5/8" x 1 1/4"	$155.00

*Complete CoolSafe systems are available for these chamber sizes.

A complete CoolSafe system



CoolSafe™ Cooling and Storage Systems

The CoolSafe system is a versatile bench top cooling and storage system. The CoolSafe box is made of triple density expanded polystyrene and molded under extreme pressure to create a durable container that guarantees temperature stability.

The CoolSafe system includes one CoolSafe box with lid, one aluminum chamber for specific tubes or plates, a Cool Brick that will maintain a temperature of 1°C, and a second Cool Brick that will maintain a temperature of -10°C for up to ten hours. Additional systems are listed online at www.usascientific.com.

9128-1000	96 x 0.2 ml PCR tube system	$277.50
9128-2000	91 x 0.5 ml tube system	$277.50
9128-3000	48 x 1.5 ml tube system	$254.00
9128-3840	384-well PCR plate system	$304.50

CoolSafe chambers

ArcticIce® MCT

Chill rack for microcentrifuge tubes changes color as the temperature rises above 7°C. To use, simply pre-chill the rack at -20°C, move it to your bench, and add your tubes. The rack slowly warms, taking approximately 4 hours before there is a complete color change. Each rack holds 24 tubes in a 6 x 4 array and will hold conical and skirted 0.5, 1.5, or 2.0 ml tubes.

Choose either purple/pink (cold/warm) or green/yellow (cold/warm) racks. Each includes a natural polypropylene lid.

		1-9	10+
2324-2754	Purple/pink	$72.75	$62.25
2324-2726	Green/yellow	$72.75	$62.25

ArcticIce®

Reversible 20-place block protects enzymes and temperature sensitive reagents or samples during transport, storage, or use. A pre-chilled ArcticIce will hold the specified temperature range up to 3 hours. Contains a non-toxic freezing gel that also protects samples from frost-free freezer cycles. Polycarbonate block has numbered positions for 1.5, 2.0 ml, or 0.5 ml tubes. Includes a clear lid with stacking rim. Measures 6⅝" L x 4¼" W x 4⅛" H.

Choose the blue ArcticIce for holding samples at -10°C to -20°C. Choose the white ArcticIce for 0°C.

		1-9	10+
2312-2721	Blue ArcticIce	$72.75	$62.25
2312-2720	White ArcticIce	$72.75	$62.25

Alcohol Chilling Jar

Fill the jar with isopropyl alcohol, add sample tubes to the carrier and place the jar in the freezer to chill samples at -1°C per minute. To thaw samples, float the carrier in a warm water bath. Includes an insulating foam sleeve for bench top use. Holds eight 1.2-2.0 ml cryogenic vials.

2316-3232 Alcohol chill jar $85.00

2316-3232

50-Place Boxes

Small 50-place polypropylene box holds 1.5 and 2.0 ml tubes and other tubes with a maximum ½" (13 mm) diameter. Permanent dividers are 27 mm tall. The contoured base provides venting for easier opening. Withstands freezing (-90°C) and autoclaving. Box measures 5¾" L x 3" W x 1½" H.

		1-9	10+
2350-0500	50-place box, natural, 5/pack	$15.75	$14.25

See page D24 for stainless steel freezer racks for 50-place boxes.

Hinged 50-Place Boxes

Polypropylene boxes have a durable, rolling hinge that withstands freezer storage and a snap-clasp that keeps boxes closed. Bold alpha-numeric markings aid sample identification. Natural and mixed neon colors (blue, green, orange, pink, and yellow) have transparent lids. Black boxes are opaque and block out light for secure storage of light sensitive samples.

50-place boxes holds 1.5 and 2.0 ml tubes and most 2.0 ml cryogenic vials. They withstand -90°C storage and autoclaving. Internal cell dimensions are 12 x 12 x 26 mm H. Outer box dimensions are $5^{9}/_{16}$" L x $3^{3}/_{8}$" D x $2^{3}/_{16}$" H.

		1-9	10+
2350-5800	50-place box, natural, 5/pack	$20.00	$17.25
2350-5848	50-place box, mixed colors, 5/pack	$23.75	$20.50
2350-5809	50-place box, black, 5/pack	$27.25	$23.50

BestBox® 49-Place Boxes

Polypropylene freezer box will accept tubes with a maximum OD of approximately 0.65" x 2.4" H (16.5 x 60 mm). A fully closed box measures 5.1" L x 5.1" W x 1.8" H. Each box has a frosted writing surface and vent slots under each cell. Permanent dividers won't lift out. Withstands freezing (-90°C) or autoclaving.

		1-9	10+
2349-5000	49-place box, natural, 5/pack	$35.50	$31.75

See pages D22, D23, and D26 for stainless steel freezer racks for BestBox 49-place boxes.

81-Place Polypropylene Freezer Boxes

Polypropylene 81-place boxes hold 1.5 ml, 2.0 ml tubes, and most cryogenic storage vials. The bases have high contrast, easy-to-read alphanumeric markings. Clear lids make it easy to view contents. Lids also feature frosted writing panels for labeling. Mixed neon colors include blue, green, orange, pink, and yellow. Boxes withstand freezing (-90°C) and autoclaving.

81-place boxes fit most freezer racks. Permanent dividers won't lift out and are low for easy tube removal. Internal cell dimensions are 13 x 13 x 26 mm H. Outer box dimensions are 5 1/8" L x 5 1/8" W x 1 7/8" H with lid. See pages D22, D23, and D26 for compatible freezer racks.

		I-9	10+
2381-5048	81-place color-coded box, 5/pack	$34.50	$29.50
2381-5800	81-place box, natural, 5/pack	$34.50	$29.50

Hinged 100-Place Boxes

Polypropylene boxes have a durable rolling hinge, a snap-clasp, and bold alphanumerics for easy sample identification. Natural and mixed neon colors (blue, green, orange, pink, and yellow) have transparent lids. Black boxes are opaque for safer storage of light sensitive samples.

100-place boxes hold 1.5 and 2.0 ml tubes and most 2.0 ml cryogenic vials. They withstand -90°C storage and autoclaving. Internal cell dimensions are 12 x 12 x 26 mm H. Outer box dimensions are 5 9/16" L x 6" D x 2 3/16" H. See page D24 for compatible freezer racks.

		I-9	10+
2310-5800	100-place box, natural, 5/pack	$33.25	$30.25
2310-5848	100-place box, mixed colors, 5/pack	$35.50	$31.50
2310-5809	100-place box, black, 5/pack	$35.50	$31.50

BestBox® 81-Place Boxes

Popular freezer boxes hold 1.5-2.0 ml tubes and most cryo vials up to 60 mm tall. Boxes feature vent slots under each cell and writing surfaces on the lids. Polypropylene boxes withstand freezing (-90°C) and autoclaving. For storage in liquid nitrogen, choose Zylar® (an impact-modified styrene-acrylic co-polymer resin).

BestBox 81-place boxes fit most freezer racks. Permanent dividers won't lift out. Cell dimensions are approximately 0.5" x 1.25" H (12.7 x 31.7 mm H). Outer dimensions are 5.1" L x 5.1" W x 1.8" H.

		I-9	10+
2381-5000	Polypropylene BestBox, 5/pack	$34.50	$29.50
2381-5300	Zylar® BestBox, 5/pack	$48.25	$44.75

See pages D22, D23, and D26 for compatible freezer racks.

Prices and products subject to change without notice. See www.usascientific.com for current information.

2300-5000

BestBox® without Dividers

Polypropylene box with lid has a solid bottom without dividers or venting holes. Natural color. Withstands freezing (-90°C) and autoclaving. Measures 4¾″ L x 4¾″ W x 1½″ H (ID) and 5.1″ L x 5.1″ W x 1.8″ H (OD) with lid.

		1-9	10+
2300-5000	BestBox, 5/pack	$31.75	$29.25

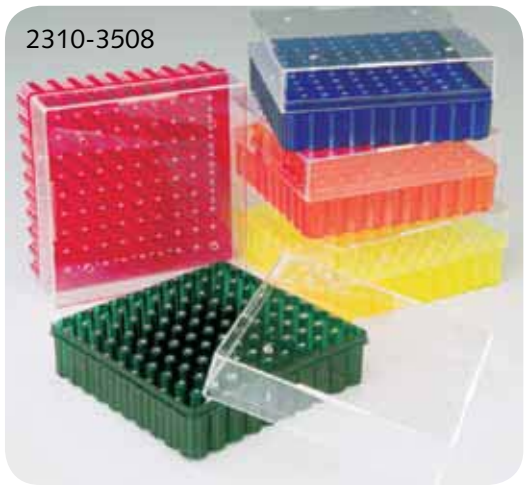
See pages D22, D23, and D26 for compatible stainless steel freezer racks.

2305-5000

BestBox®-50 Jr.

Small 50-place box holds 0.5 ml tubes. The lid has a frosted labeling surface and the base has finger grips for easier opening. Measures 4 11/16″ L x 2 7/16″ W x 1¾″ H with lid in place. Each cell measures 10 x 10 x 24 mm. Natural polypropylene withstands freezing (-90°C) and autoclaving. (Two BestBox-50 Jr. boxes will fit side by side in freezer racks designed for the BestBox 81-place box or a standard 5¼″ square, 2″ H cardboard box. See pages D22, D23, and D26 for compatible stainless steel freezer racks.)

		1-9	10+
2305-5000	BestBox-50 Jr.	$22.60	$21.53


2310-3508

Polycarbonate Cryostorage Boxes

Polycarbonate storage boxes have clear lids and high contrast alphanumerics for easy sample viewing and identification. 2.1″ H boxes hold most cryogenic vials up to 2.0 ml; 3.7″ H boxes are for 4.5 ml vials. All are vented for rapid pressure equalization. Temperature range: -196°C to +120°C (autoclaving not recommended); use in mechanical freezers or liquid nitrogen. Five assorted color boxes per pack.

2325-3508	25-place box, 2.95″ x 2.95″ x 2.05″ H	$28.00
2381-3508	81-place box, 5.2″ X 5.2″ X 2.1″ H	$46.25
2310-3508	100-place box, 5.2″ X 5.2″ X 2.1″ H	$46.25
2381-5308	81-place box, 5.2″ X 5.2″ X 3.7″ H	$61.50 **NEW**

2381-3508

2381-5308

Premium 81-Place Cardboard Boxes

Sturdy cardboard boxes have a coating on both the inside and outside for increased moisture resistance and durability. Boxes fit most freezer racks. Shallow, low profile lids (15/16″ overlap) accommodate short tubes (48 mm). Deep, high profile (1 3/8″ overlap) lids accommodate taller tubes (70 mm). Each cell is 12.7 x 12.7 x 33.3 mm. Box with lid measures 5¼″ L x 5¼″ W x 2″ H (OD). Vented boxes have four 9 mm holes, one at each corner of the base.

Holds 1.5 ml and 2.0 ml tubes, most cryogenic vials, and ½ dram glass vials.

9023-4981	Shallow lid 81-place box	$5.00
9024-4981	Shallow lid 81-place box, vented	$5.00
9023-8181	Deep lid 81-place box	$5.00
9024-8181	Deep lid 81-place box, vented	$5.00

See pages D22, D23, and D26 for compatible freezer racks.

9023-8181

Premium 49-Place Cardboard Boxes

Sturdy cardboard boxes have a coating on both the inside and outside for increased moisture resistance and durability. Boxes fit most freezer racks. Shallow, low profile lids (15/16″ overlap) accommodate short tubes (48 mm). Deep, high profile (1 3/8″ overlap) lids accommodate taller tubes (70 mm). Each cell is 16.7 x 16.7 x 33.3 mm. Box with lid measures 5¼″ L x 5¼″ W x 2″ H (OD). Vented boxes have four 9 mm holes, one at each corner of the base.

Holds one-dram glass vials and most 5 ml and 7 ml scintillation vials.

9023-4949	Shallow lid 49-place box	$5.00
9024-4949	Shallow lid 49-place box, vented	$5.00
9023-8149	Deep lid 49-place box	$5.00
9024-8149	Deep lid 49-place box, vented	$5.00

See pages D22, D23, and D26 for compatible freezer racks.

9023-4949

Expanded Polystyrene Box

Insulating storage box holds 1.5 and 2.0 ml tubes in clearly marked rows for easy sample identification. Wide spacing provides easy tube access; stacking feature keeps freezer neat.

100-place box measures 13 1/8″ L x 3 11/16″ W x 2¾″ H. 50-place box measures 8″ L x 4¼″W x 2¾″ H. Ten boxes per pack.

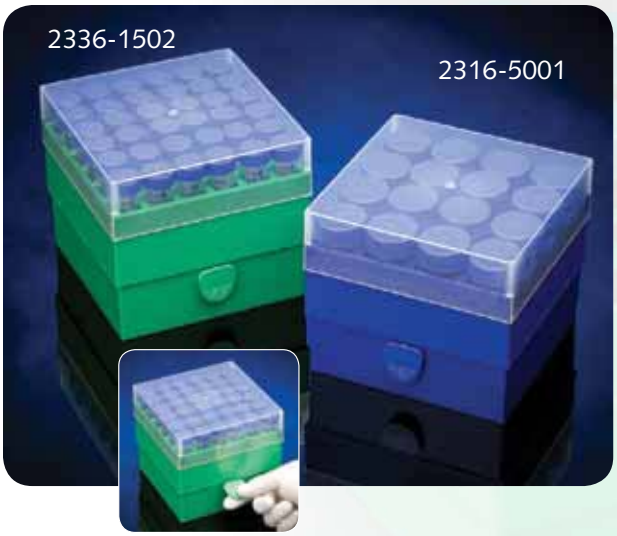
2348-1000	100-place box, pack of ten	$64.00
2348-0500	50-place box, pack of ten	$60.50

2348-1000

Assorted Cardboard Boxes

CATALOG NO.	CELLS	TUBE SIZE	BOX HEIGHT	PRICE PER BOX 1 - 9	10 +
5¼" L x 5¼" W					
9023-3100	100*	12 x 75 mm	2 15/16"	$6.75	$6.00
9023-3381	81	Cryogenic	2 7/8"	$4.25	$3.75
5¾" L x 5¾" W					
9023-1615	36	15 ml	3"**	$6.75	$6.00
9023-1650	16	50 ml	3"**	$6.75	$6.00

*100-place boxes have drain holes in the base.
**4¾" high with 15 or 50 ml tubes. See pages D24 and D27 for compatible freezer racks.



15 ml and 50 ml Tube Boxes

Autoclavable polypropylene boxes feature grids with easy-to-read cell numbers. Solid base contains spills if tubes crack. Boxes measure 5 5/8" W x 5 5/8" D x 5" H when closed. Temperature resistant from -80°C to +121°C. See pages D24 and D27 for compatible freezer racks. Two boxes per pack.

		1-9	10+
2336-1502	36-place 15 ml tube box, green	$21.50	$18.50
2316-5001	16-place 50 ml tube box, blue	$21.50	$18.50

Slide Storage Box

Store slides vertically with the labels up for easy identification or bar code reading. The removable slide tray has 100 numbered slots that hold one or two slides each. For maximum storage of 400 slides, remove the tray. Measures 3¼" W x 9 5/8" D x 3 3/8" H. Blue base with a clear, hinged lid with stacking guides. High impact polystyrene; not autoclavable.

2324-7101 $14.25

Top Load Slide-Out Freezer Rack

16-place rack offers easy access to freezer boxes from the top or either side of each drawer. Corrosion resistant stainless steel. For 2" H boxes. Measures 22.34" L x 5.47" W x 9.29" H. Boxes sold separately.

		1-9	10+
2687-4400	4 L x 4 H top load rack	$261.00	$231.00

Racks for Standard 2″ and 3″ High Boxes

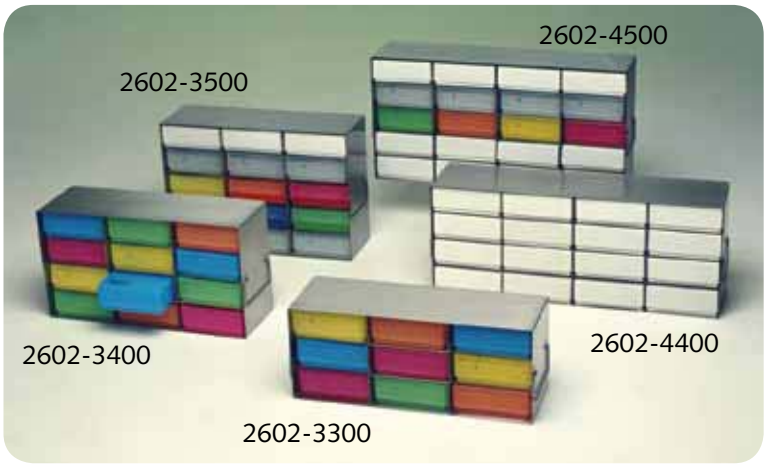
Corrosion resistant stainless steel freezer racks. Each holds one 5¼″ x 5¼″ box or two 4$^{11}/_{16}$″ x 2$^{7}/_{16}$″ boxes per section. Boxes sold separately.

Recommended boxes and racks:

2″ H polypropylene: 2381-5048, 2381-5800, 2381-5000, 2381-5300, 2349-5000, 2364-1008, 2300-5000, 2305-5000

2″ H cardboard: 9023-4981, 9023-8181, 9023-4949, 9023-4981

3″ H cardboard: 9023-3381



CATALOG NO.	BOX HEIGHT	SECTIONS L X H	DIMENSIONS L x W x H	PRICE PER RACK 1 - 4	5 +
2602-3300	2”	3 x 3	16$^{5}/_{16}$” x 5½” x 6$^{5}/_{8}$”	$107.75	$96.75
2602-3400	2”	3 x 4	16$^{5}/_{16}$” x 5½” x 8$^{7}/_{8}$”	$123.75	$111.50
2602-3500	2”	3 x 5	16$^{5}/_{16}$” x 5½” x 11”	$140.75	$126.75
2602-4300	2”	4 x 3	21$^{5}/_{8}$” x 5½” x 6$^{5}/_{8}$”	$123.75	$103.75
2602-4400	2”	4 x 4	21$^{5}/_{8}$” x 5½” x 8$^{7}/_{8}$”	$152.50	$137.25
2602-4500	2”	4 x 5	21$^{5}/_{8}$” x 5½” x 11”	$189.25	$170.50
2602-4600	2”	4 x 6	21$^{5}/_{8}$” x 5½” x 12$^{5}/_{8}$”	$225.00	$193.50
2602-5500	2”	5 x 5	26¾” x 5½” x 11”	$261.00	$231.00
2603-3300	3”	3 x 3	16$^{5}/_{8}$” x 5½” x 9$^{5}/_{8}$”	$96.25	$86.75
2603-4300	3”	4 x 3	22$^{1}/_{8}$” x 5½” x 9$^{5}/_{8}$”	$139.00	$127.00

Additional sizes of racks are available. Call 1-800-522-8477 for information.

Racks with Drawers

Sliding drawers let you reach boxes at the back of the freezer without removing the entire rack. Drawers have accessible sides for easy box removal. Holds one 5¼″ x 5¼″ x 2″ H box per section. Corrosion resistant stainless steel. Boxes sold separately. Accepts the same 2″ high boxes as the racks shown above.

CATALOG NO.	SECTIONS L X H	DIMENSIONS L x W x H	PRICE PER RACK 1 - 4	5 +
2632-3300	3 x 3	16½” x 5½” x 7$^{1}/_{8}$”	$262.00	$235.75
2632-3400	3 x 4	16½” x 5½” x 9$^{7}/_{16}$”	$322.25	$290.00
2632-4300	4 x 3	22” x 5½” x 7$^{1}/_{8}$”	$263.50	$237.25
2632-4400	4 x 4	22” x 5½” x 9$^{7}/_{16}$”	$344.50	$310.25
2632-4500	4 x 5	22” x 5½” x 11$^{13}/_{16}$”	$425.00	$382.50
2632-5500	5 x 5	26¾” x 5½” x 11$^{4}/_{5}$”	$530.00	$477.00

Additional sizes of racks are available. Call 1-800-522-8477 for information. Racks are also available for 3″ H boxes.

2610-0800

Racks for 100-Place Hinged Boxes

Corrosion resistant stainless steel racks with handles. Holds one 5 9/16" x 6" x 2 3/16" H box per section. All racks are 5 7/8" deep. Boxes sold separately. We recommend the 2310-5800 or 2310-5848 100-place hinged boxes on page D19.

		1-4	5+
2610-0800	2 x 4, 12½" L x 9¼" H	$102.50	$92.25
2610-1200	3 x 4, 18¾" L x 9¼" H	$131.00	$118.00
2610-1500	3 x 5, 18¾" L x 11 9/16" H	$152.00	$130.50

Additional sizes are available. Call 1-800-522-8477 for information.

2610-1200

Racks for 50-Place Boxes

Corrosion resistant stainless steel racks with handles. Store two 5¾" L x 3" W x 1½" H boxes per section. All racks are 5 7/8" deep. Boxes sold separately. We recommend 2350-0500 on page D18.

		1-4	5+
2686-1015	1 x 5, 6¼" L x 11½" H	$97.25	$87.75
2686-1215	2 x 3, 12¾" L x 7" H	$111.25	$100.25
2686-1615	2 x 4, 12¾" L x 9¼" H	$124.00	$111.75
2686-2415	3 x 4, 19" L x 9¼" H	$166.50	$149.50

Additional sizes are available. Call 1-800-522-8477 for information.

2686-2415

2623-9006

Racks for Large Boxes

Corrosion resistant stainless steel racks have solid sides with handles. Accessible back panels allow boxes to be pushed forward. Holds one box per section.

We recommend the following boxes shown on page D22:

9023-1615 Cardboard, 5¾" x 5¾" x 4¾" H
9023-1650 Cardboard, 5¾" x 5¾" x 4¾" H
2316-5001 Polypropylene (PP), 5 5/8" x 5 5/8" x 5" H
2336-1502 Polypropylene (PP), 5 5/8" x 5 5/8" x 5" H

CATALOG NO.	SECTIONS L X H	BOX TYPE	DIMENSIONS L X W X H	PRICE PER RACK 1 - 4	5+
2623-9004	2 x 2	Cardboard Only	12¼" x 5 7/8" x 9 7/8"	$80.00	$73.50
2623-9006	3 x 2	Cardboard Only	18¼" x 5 7/8" x 9 7/8"	$104.00	$93.75
2623-9008	4 x 2	Cardboard Only	24" x 5 7/8" x 9 7/8"	$120.00	$108.00
2606-1550	3 x 2	PP or Cardboard	17¾" x 6" x 10 7/16"	$97.75	$78.75
2608-1550	4 x 2	PP or Cardboard	23½" x 6" x 10 7/16"	$118.00	$100.50

Racks for Multiple Well Plates

Corrosion resistant stainless steel racks with handles. Selected racks have locking rods to prevent the contents from spilling during transport. Holds any plate or rack with a 5″ x 3⅜″ footprint.

Recommended for:
- Multiple well plates
- Deep well plates
- Micronic® tube racks
- PCR tube racks (2300-9602 page D15)

2662-0957

CATALOG NO.	SECTIONS L X H	PLATE CAPACITY**	DIMENSIONS L X W X H	PRICE PER RACK 1 - 4	5 +
2642-0957	4 x 2*	56 / 64	14¾" x 5½" x 9¼"	$137.50	$105.50
2652-0957	5 x 2*	70 / 80	18⅜" x 5½" x 9 3/16"	$150.75	$135.75
2662-0957	6 x 2*	84 / 96	22" x 5½" x 9 3/16"	$184.75	$166.50
2651-0900	5 x 1	70 / 80	18½" x 5½" x 9¼"	$148.75	$134.00
2661-0900	6 x 1	84 / 96	22⅛" x 5½" x 9¼"	$172.50	$155.25

*Includes locking rods
**Standard size 96-well plate with lids/without lids. Additional sizes of racks are available. Call 1-800-522-8477 for information.

Multiple Well Plate Rack with Drawers

Four drawers with six dividers hold 72 standard multiple well plates with lids or 96 plates without lids. Corrosion resistant stainless steel. Measures 21½″ L x 5 7/16″ W x 9 11/16″ H.

2696-4600

2696-4600	$324.00
5+ racks, each	$292.00

Tube Racks

No boxes are required to store 15 ml or 50 ml tubes in these drawer style racks. Stabilizers keep the tubes from shifting and promote uniform air circulation. Tube grids may be removed for storage of bottles. Each stainless steel rack has two drawers and is 5½″ wide x 9 15/16″ high.

2483-3815

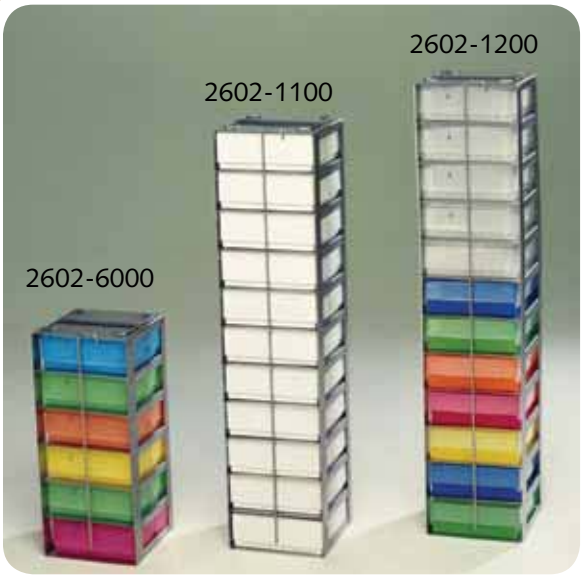
16.5" Long Racks

2483-3815	120-place rack for 15 ml tubes	$169.75
2483-3850	60-place rack for 50 ml tubes	$169.75

2483-3550

22" Long Racks

2483-3515	160-place rack for 15 ml tubes	$209.00
2483-3550	78-place rack for 50 ml tubes	$209.00



Racks for Standard 2″ and 3″ High Boxes

Corrosion resistant stainless steel racks have handles and removable locking rods. Racks hold one 5¼″ x 5¼″ box or two 4 11/16″ x 2 7/16″ boxes per section.

Recommended boxes and racks:

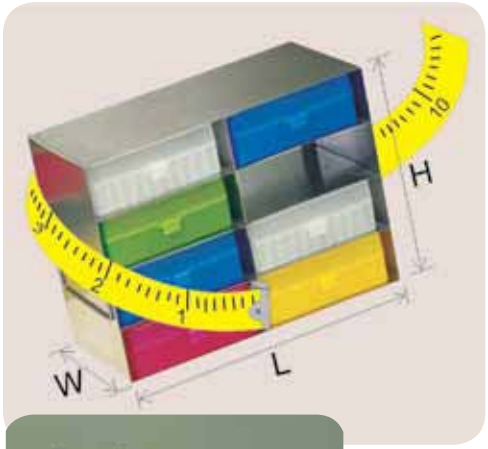
2″ H polypropylene: 2381-5048, 2381-5800, 2381-5000, 2381-5300, 2349-5000, 2364-1008, 2300-5000, 2305-5000

2″ H cardboard: 9023-4981, 9023-8181, 9023-4949, 9023-4981

3″ H cardboard: 9023-3381

		SECTIONS	DIMENSIONS	PRICE PER RACK	
CATALOG NO.	BOX HEIGHT	L X H	L x W x H	1 - 4	5+
2602-6000	2”	1 x 6	5½” x 5 5/8” x 13 5/16”	$73.50	$66.25
2602-9000	2”	1 x 9	5½” x 5 5/8” x 19 13/16”	$106.00	$95.75
2602-1000	2”	1 x 10	5½” x 5 5/8” x 22 1/16”	$108.00	$101.75
2602-1100	2”	1 x 11	5½” x 5 5/8” x 24¼”	$110.25	$99.50
2602-1200	2”	1 x 12	5½” x 5 5/8” x 26 3/8”	$115.00	$102.75
2603-8000	3”	1 x 8	5½” x 5 5/8” x 25 7/8”	$106.00	$95.50

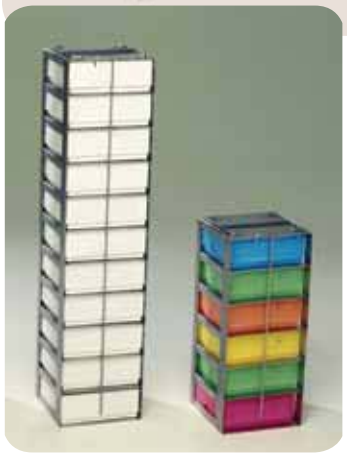
Additional sizes of racks are available. Call 1-800-522-8477 for information.



Custom Stainless Steel Freezer Racks

Maximize your freezer space with racks made to your specifications. Ask your USA Scientific representative, call 1-800-LAB-TIPS (522-8477), or use our online custom request form at www.usascientific.com to request a free quote. Please tell us the inside dimensions of your freezer and the type and sizes of items being stored (racks, boxes, multiple-well plates, etc.).

All stainless steel rack dimensions in this catalog are measured as shown at left. Please use this same format when ordering custom racks.



Racks for Large Boxes

Corrosion resistant stainless steel racks have handles for easy transport and freezer removal. Holds one box per section.

We recommend the following boxes shown on page D22:

9023-1615 Cardboard, 5¾" x 5¾" x 4¾" H
9023-1650 Cardboard, 5¾" x 5¾" x 4¾" H
2316-5001 Polypropylene (PP), 5⅝" x 5⅝" x 5" H
2336-1502 Polypropylene (PP), 5⅝" x 5⅝" x 5" H

2605-1557

	SECTIONS		DIMENSIONS	PRICE PER RACK	
CATALOG NO.	L X H	BOX TYPE	L x W x H	1 - 4	5+
2690-2304	1 x 4	Cardboard	6" x 6⅛" x 19¾"	$107.00	$96.50
2690-2305	1 x 5	Cardboard	6" x 6⅛" x 24¾"	$104.25	$94.00
2690-2306	1 x 6	Cardboard	6" x 6⅛" x 29⅝"	$100.00	$90.25
2605-1557	1 x 5	PP or Cardboard	5⅞" x 6⅛" x 26"	$98.25	$83.75

Racks for Multiple Well Plates

Corrosion resistant stainless steel racks have handles for easy transport and freezer removal. Accessible back panels allow boxes to be pushed forward for easy removal. Holds any plate or rack with a 5" x 3⅜" footprint.

Recommended for:
- Multiple well plates
- Deep well plates
- Micronic® tube racks
- PCR tube racks (2300-9602, page D15)

2626-7857

	SECTIONS	PLATE	DIMENSIONS	PRICE PER RACK	
CATALOG NO.	L X H	CAPACITY*	L x W x H	1 - 4	5+
2626-7657	1 x 6	30 / 36	5½" x 3⅝" x 19⅞"	$76.00	$66.00
2626-7757	1 x 7	35 / 42	5½" x 3⅝" x 23¼"	$81.75	$71.00
2626-7857	1 x 8	40 / 48	5½" x 3⅝" x 26¼"	$83.00	$72.00

*Standard size 96-well plate with lids/without lids
Additional sizes of racks are available. Call 1-800-522-8477 for information.

Prices and products subject to change without notice. See www.usascientific.com for current information.

GLACIERbrand™ Ice Pans

Triple density expanded polystyrene containers are lightweight yet durable. They will not sweat or leave puddles of condensation on the bench top. Ice pans have a stackable design that saves storage space and feature a molded lip for easy handling. Ice buckets have prominent handles for easy carrying and include lids. All are suitable for ice-alcohol slurries, dry ice, liquid nitrogen, and are resistant to mild chemicals.

GLACIERbrand Ice Pans and Buckets

	Dimensions	Blue	Green	Pink	Price
1 L Pan	6.13" x 6.13" x 3.61" H	9172-6101	9172-6102	9172-6104	$15.00
4 L Pan	12.25" x 8.75" x 4.75" H	9172-6201	9172-6202	9172-6204	$35.00
9 L Pan	17.25 x 13.50" x 4.96" H	9172-6301	9172-6302	9172-6304	$49.00
2.5 L Bucket	10.625" x 4.375" H	9142-1000	9142-1100	--	$35.00
5 L Bucket	10.625" x 6.25" H	9142-2000	9142-2100	--	$45.00

NEW!

Polyurethane Ice Buckets and Pans

Durable molded polyurethane ice buckets and pans offer excellent insulation with ice, ice-salt, or alcohol slurries. Snug lid features a recessed knob and can be stored underneath the bucket or pan when not in use. Both formats feature a convenient pour spout and large handles for easy transport. Tapered for easy stacking.

2328-7145 4L polyurethane ice bucket, black $99.00
2328-7242 4L polyurethane ice pan, blue $101.00

Angled Bottle Rest

Hands free support for media bottles. Acrylic stand features a 45° angle for comfortable pipetting and reduction of arm and wrist strain. Holds round or square 200 ml, 500 ml, or 1 liter bottles.

9178-1000 $68.00

E

GLOVES

SYNTHETIC EXAM GLOVES

HIGH FIVE® HIGH PERFORMANCE GLOVES

POWDER-FREE LATEX EXAM GLOVES

NITRILE

NEOGARD® CHLOROPRENE EXAM GLOVES

AloeSense® Sensation™ Enhanced sensitivity & comfort

GLOVE ACCESSORIES

USA SCIENTIFIC®

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Overview of Glove Materials

Nitrile

Nitrile provides exceptional durability without the concerns of natural rubber proteins. Nitrile gloves are easy to don, odor-free, and offer an unequaled fit and feel. The unique, low modulus formulation reduces hand fatigue and offers puncture and chemical resistance.

Latex

Latex is the benchmark for fit, comfort, and protection due to superior elasticity and tensile strength. Powder-free latex gloves have low levels of allergens. However, these gloves are not recommended for anyone with a tendency towards latex allergies.

Chloroprene

Chloroprene provides outstanding resistance to chemicals, oils, and ozone. This technologically advanced synthetic material is more puncture resistant than latex while offering similar comfort and flexibility.

Synthetic

Applause® synthetic gloves are made from a proprietary PVC formulation that offers exceptional elasticity and tensile strength without the worries of protein allergies. They are not recommended for aggressive chemicals, solvents, or high risk applications.

Comparison of Powder-Free Exam Glove Features

MATERIAL	LATEX-FREE	COLOR	SPECIAL FEATURE	AVAILABLE SIZES	PAGE
Latex		Natural	Popular latex lab standard	XS, S, M, L, XL	E3
Latex		Natural	Aloe helps condition hands	XS, S, M, L, XL	E4
Nitrile	√	Cobalt	Most popular nitrile lab standard	S, M, L, XL	E5
Nitrile	√	Light blue	Familiar blue color, lab standard	XS, S, M, L, XL	E6
Nitrile	√	Periwinkle blue	Softest and most comfortable nitrile	XS, S, M, L, XL	E7
Nitrile	√	Caribbean blue	Soft and stretchy formula	XS, S, M, L, XL	E8
Nitrile	√	Cobalt	Thin comfort with greater durability	S, M, L, XL	E9
Nitrile	√	Blue-green	Soft and comfortable nitrile with aloe for conditioning	XS, S, M, L, XL	E10
Nitrile	√	Light green	Aloe helps condition hands	S, M, L, XL	E10
Nitrile	√	White	Thicker construction	S, M, L, XL	E11
Nitrile	√	Teal	Thicker with extra-long 12" cuffs	S, M, L, XL	E11
Chloroprene	√	Green	Latex comfort in a synthetic	S, M, L, XL	E12
Synthetic	√	Tan	Light duty latex alternative	S, M, L, XL	E12

Helpful Terms

AQL	AQL refers to the acceptable quality levels for leaks and visual defects observed during FDA testing of exam gloves. Effective December 19, 2010, exam gloves must have an AQL of less than 2.5. All gloves in this section meet or exceed this standard.
Tensile Strength	Indicates the minimum force required to stretch the glove until it breaks.
Elongation	Indicates how far a glove will stretch before breaking.
510K Approval	Exam gloves are Class I medical devices and must be submitted to the FDA to receive this approval demonstrating their safety and effectiveness. All gloves in this section have 510K approval.

Powder-Free Latex Exam Gloves

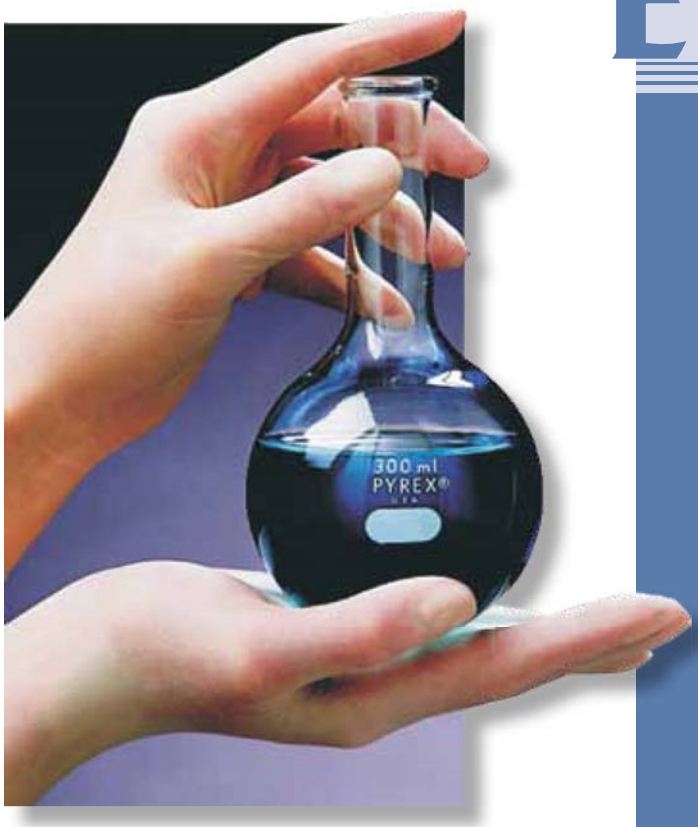
- Micro-textured satin finish for exceptional wet grip and tactile sensitivity
- High elasticity and tensile strength
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration test (ASTM F1671)

Powder free latex gloves have a subtle texture that offers exceptional gripping power without compromising tactile sensitivity.
A proprietary, on-line, single chlorination process enhances flexibility and the ease of donning.

During production, extractable chemicals and water soluble proteins are reduced to nearly undetectable levels, minimizing the risk of skin irritations and allergies. Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9002 certified.

Non-sterile; approved for medical use (FDA 510k). Natural color. Each box is color coded by size for easy identification.

Micro-textured latex gloves, box of 100	$20.00
Micro-textured latex gloves, case of 1000	$153.75



HIGH FIVE®
HIGH PERFORMANCE GLOVES

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Extra Small	Box	100	4910-1100
	Case	10 x 100	4900-1100
Small	Box	100	4910-2200
	Case	10 x 100	4900-2200
Medium	Box	100	4910-3300
	Case	10 x 100	4900-3300
Large	Box	100	4910-4400
	Case	10 x 100	4900-4400
Extra Large	Box	100	4910-5500
	Case	10 x 100	4900-5500

SPECIFICATIONS

Material	Natural rubber latex
Color	Natural
Finish	Micro-textured
Thickness (mil) ± 0.01	
Palm	5.0
Finger	6.0
Cuff	4.0
Tensile strength	22 Mpa (min)
Elasticity/Elongation	800% (min)
AQL	1.5
Length	9.5"

HIGH FIVE®
HIGH PERFORMANCE GLOVES

Powder-Free Latex Exam Gloves with Aloe

- Aloe vera conditions skin and makes donning easier
- Fully textured for exceptional wet grip and sensitivity
- High elasticity and tensile strength
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration test (ASTM F1671)

Help prevent chapped and dry hands with aloe gloves. An internal coating of aloe protects your skin from moisture loss and helps to condition your hands while you wear gloves. The fully textured outer surface offers exceptional gripping power without compromising tactile sensitivity.

During production, extractable chemicals and water soluble proteins are reduced to nearly undetectable levels, minimizing the risk of skin irritations and allergies. Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards, and the gloves are 100% tested for pinholes and defects. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k).
Each box is color coded by size for easy identification.
Natural color.

Latex gloves with aloe, box of 100	$23.50
Latex gloves with aloe, case of 1000	$211.25

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Extra Small	Box	100	4919-1100
	Case	10 x 100	4909-1100
Small	Box	100	4919-2200
	Case	10 x 100	4909-2200
Medium	Box	100	4919-3300
	Case	10 x 100	4909-3300
Large	Box	100	4919-4400
	Case	10 x 100	4909-4400
Extra Large	Box	100	4919-5500
	Case	10 x 100	4909-5500

SPECIFICATIONS	
Material	Natural rubber latex
Internal coating	Aloe vera
Color	Natural
Finish	Textured
Thickness (mil) ± 0.01	
Palm	5.5
Finger	6.0
Cuff	4.5
Tensile strength	18 Mpa (min)
Elasticity/Elongation	750% (min)
AQL	1.5
Length	9.5"

COBALT

Powder-Free Nitrile Exam Gloves

- 100% latex-free with no natural rubber proteins
- Odor-free nitrile
- Fully textured for exceptional wet grip and sensitivity
- Cobalt blue color
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration tests (ASTM F1671)

Powder-free, Cobalt® nitrile gloves are an excellent alternative to latex. Soft and supple, they are easy to don and offer unequaled fit and feel compared to conventional exam gloves. The synthetic formulation offers superior chemical resistance compared to latex or vinyl gloves.

There are no irritating MBTs or thiurams used in production and no detectable carbamates that might cause skin reactions or allergies. Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k).
Each box is color coded by size for easy identification.

Cobalt® blue nitrile gloves, box of 100	$23.25
Cobalt® blue nitrile gloves, case of 1000	$192.00

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Small	Box	100	4914-2200
	Case	10 x 100	4904-2200
Medium	Box	100	4914-3300
	Case	10 x 100	4904-3300
Large	Box	100	4914-4400
	Case	10 x 100	4904-4400
Extra Large	Box	100	4914-5500
	Case	10 x 100	4904-5500

HIGH FIVE® HIGH PERFORMANCE GLOVES

SPECIFICATIONS

Material	100% nitrile
Color	Cobalt blue
Finish	Textured
Thickness (mil) ± 0.01	
Palm	4.0
Finger	4.5
Cuff	4.0
Tensile strength	19 Mpa (min)
Elasticity/Elongation	600% (min)
AQL	2.0
Length	9.5"

HIGH FIVE®
HIGH PERFORMANCE GLOVES

Powder-Free Nitrile Exam Gloves

- 100% latex-free with no natural rubber proteins
- Odor-free nitrile
- Fully textured for exceptional wet grip and sensitivity
- Light blue color
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration tests (ASTM F1671)

Powder-free, light blue nitrile gloves are an excellent alternative to latex. Soft and supple, they are easy to don and offer unequaled fit and feel compared to conventional exam gloves. This synthetic formulation offers superior chemical resistance compared to latex or vinyl gloves.

There are no irritating MBTs or thiurams used in production and no detectable carbamates that might cause skin reactions or allergies. Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k). Each box is color coded by size for easy identification.

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Extra Small	Box	100	4941-1100
	Case	10 x 100	4940-1100
Small	Box	100	4941-2200
	Case	10 x 100	4940-2200
Medium	Box	100	4941-3300
	Case	10 x 100	4940-3300
Large	Box	100	4941-4400
	Case	10 x 100	4940-4400
Extra Large	Box	100	4941-5500
	Case	10 x 100	4940-5500

Light blue nitrile gloves, box of 100 $22.75
Light blue nitrile gloves, case of 1000 $183.75

SPECIFICATIONS	
Material	100% nitrile
Color	Light blue
Finish	Textured
Thickness (mil) ± 0.01	
Palm	4.0
Finger	4.7
Cuff	4.0
Tensile strength	19 Mpa (min)
Elasticity/Elongation	600% (min)
AQL	2.0
Length	9.5"

Sensation™
Enhanced sensitivity & comfort

Powder-Free Soft Nitrile Exam Gloves

HIGH FIVE®
HIGH PERFORMANCE GLOVES

- 100% latex-free with no natural rubber proteins
- Enhanced comfort and tactile sensitivity
- Odor-free nitrile
- Textured fingers for improved wet grip
- Periwinkle blue color
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration test (ASTM F1671)

Powder-free, periwinkle blue nitrile gloves are an excellent alternative to latex. These soft, flexible gloves stretch and conform to your hands, eliminating the stiffness sometimes associated with nitrile gloves.

Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k).
Each box is color coded by size for easy identification.

Sensation® nitrile gloves, box of 100	$22.00
Sensation® nitrile gloves, case of 1000	$175.00

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Extra Small	Box	100	4971-1100
	Case	10 x 100	4970-1100
Small	Box	100	4971-2200
	Case	10 x 100	4970-2200
Medium	Box	100	4971-3300
	Case	10 x 100	4970-3300
Large	Box	100	4971-4400
	Case	10 x 100	4970-4400
Extra Large	Box	100	4971-5500
	Case	10 x 100	4970-5500

SPECIFICATIONS	
Material	100% nitrile
Color	Periwinkle blue
Finish	Textured fingers
Thickness (mil) ± 0.01	
Palm	3.0
Finger	3.1
Cuff	2.8
Tensile strength	14 Mpa (min)
Elasticity/Elongation	650% (min)
AQL	1.5
Length	9.5"

Caribbean Blue Powder-Free Soft Nitrile Exam Gloves

- 100% latex-free with no natural rubber proteins
- Enhanced comfort and tactile sensitivity
- Odor-free nitrile
- Fully textured fingers for improved wet grip
- Caribbean blue color
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration test (ASTM F1671)

Soft nitrile gloves stretch and conform to your hands, eliminating the stiffness sometimes associated with nitrile gloves. The optimized thickness balances sensitivity and protection for unsurpassed comfort.

Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k).
Each box is color coded by size for easy identification.

HIGH FIVE®
HIGH PERFORMANCE GLOVES

Caribbean blue nitrile gloves, box of 100	$21.50
Caribbean blue nitrile gloves, case of 1000	$178.25

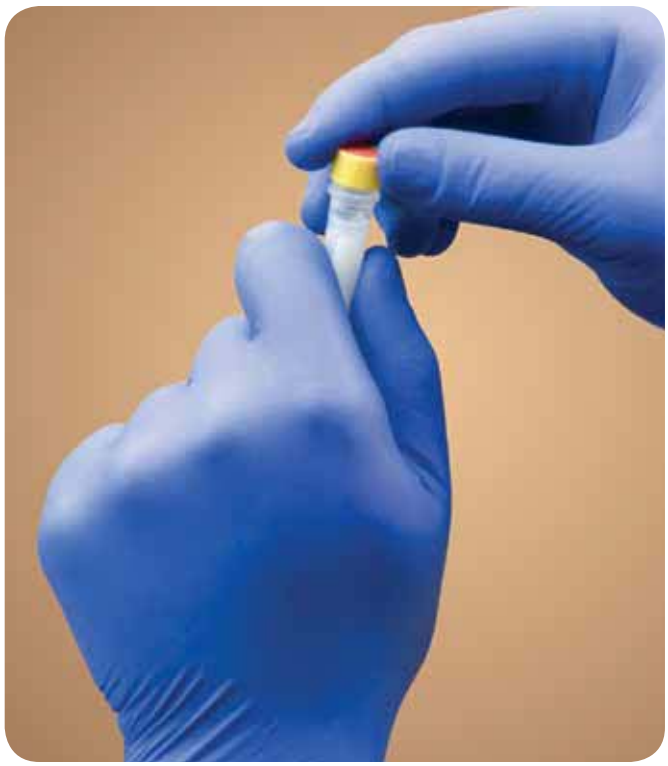
SIZE	PACKAGE	QUANTITY	CATALOG NO.
Extra Small	Box	100	4921-1100
	Case	10 x 100	4920-1100
Small	Box	100	4921-2200
	Case	10 x 100	4920-2200
Medium	Box	100	4921-3300
	Case	10 x 100	4920-3300
Large	Box	100	4921-4400
	Case	10 x 100	4920-4400
Extra Large	Box	100	4921-5500
	Case	10 x 100	4920-5500

SPECIFICATIONS	
Material	100% nitrile
Color	Caribbean blue
Finish	Textured fingers
Thickness (mil) ± 0.01	
Palm	3.0
Finger	3.5
Cuff	2.8
Tensile strength	20 Mpa (min)
Elasticity/Elongation	650% (min)
AQL	1.5
Length	9.5"

COBALT ULTRA

Powder-Free Soft Nitrile Exam Gloves

NEW!



- 100% latex-free with no natural rubber proteins
- Enhanced comfort and tactile sensitivity
- 200 gloves per box
- Odor-free nitrile
- Textured fingers for improved wet grip
- Cobalt blue color
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration test (ASTM F1671)

Need a comfortable thinner glove with the durability and elasticity of a thicker one? New Cobalt Ultra soft nitrile gloves conform to your hands for reduced fatigue and improved tactile sensitivity. New formulation provides both strength and puncture resistance while reducing thickness. Economically packed with twice as many gloves per box.

Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9002 certified.

Non-sterile; approved for medical use (FDA 510k).
Each box is color coded by size for easy identification.

HIGH FIVE®
HIGH PERFORMANCE GLOVES

Cobalt® Ultra nitrile gloves, box of 200	$20.50
Cobalt® Ultra nitrile gloves, case of 2000	$185.00

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Small	Box	200	4951-2200
	Case	10 x 200	4950-2200
Medium	Box	200	4951-3300
	Case	10 x 200	4950-3300
Large	Box	200	4951-4400
	Case	10 x 200	4950-4400
Extra Large	Box	200	4951-5500
	Case	10 x 200	4950-5500

SPECIFICATIONS	
Material	100% nitrile
Color	Cobalt blue
Finish	Textured fingers
Thickness (mil) ± 0.01	
Palm	2.8
Finger	3.0
Cuff	2.5
Tensile strength	20.5 Mpa (min)
Elasticity/Elongation	650% (min)
AQL	1.5
Length	9.5"

HIGH FIVE® HIGH PERFORMANCE GLOVES

Powder-Free Nitrile Exam Gloves with Aloe

- Aloe vera conditions skin
- 100% latex-free with no natural rubber proteins
- Odor-free nitrile
- Ambidextrous, 9½" long with beaded cuff
- Passes viral penetration test (ASTM F1671)

Help prevent chapped and dry hands. An internal coating of aloe protects your skin from moisture loss and helps to condition your hands while you wear gloves. Textured surfaces offer exceptional gripping power without compromising tactile sensitivity.

Powder-free nitrile gloves with aloe are an excellent alternative to latex. Soft and supple, they are easy to don and offer unequaled fit and feel compared to conventional exam gloves. The proprietary low modulus formulation reduces hand fatigue for more comfortable use. There are no irritating MBTs or thiurams used in production and no detectable carbamates that might cause skin reactions or allergies. Nitrile formulation also offers superior chemical resistance compared to latex or vinyl gloves.

Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k). Each box is color coded by size for easy identification.

Nitrile Exam Gloves with Aloe

Box of 100	$24.50
Case of 1000	$225.00

AloeSense® Soft Nitrile Exam Gloves with Aloe

Thin film technology creates a softer, more comfortable glove.

Box of 100	$22.75
Case of 1000	$196.75

Aloe Nitrile GLOVES

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Small	Box	100	4918-2200
	Case	10 x 100	4908-2200
Medium	Box	100	4918-3300
	Case	10 x 100	4908-3300
Large	Box	100	4918-4400
	Case	10 x 100	4908-4400
Extra Large	Box	100	4918-5500
	Case	10 x 100	4908-5500

AloeSense® SOFT NITRILE GLOVES

Extra Small	Box	100	4981-1100
	Case	10 x 100	4980-1100
Small	Box	100	4981-2200
	Case	10 x 100	4980-2200
Medium	Box	100	4981-3300
	Case	10 x 100	4980-3300
Large	Box	100	4981-4400
	Case	10 x 100	4980-4400
Extra Large	Box	100	4981-5500
	Case	10 x 100	4980-5500

SPECIFICATIONS

	Aloe Nitrile	AloeSense®
Material	100% low modulus nitrile	
Internal coating	Aloe vera	
Color	Light green	Blue-green
Finish	Fully textured	Textured fingers
Thickness (mil) ± 0.01		
Palm	5.5	3.0
Finger	6.0	3.5
Cuff	5.5	2.8
Tensile strength	17 Mpa (min)	20 Mpa (min)
Elasticity/Elongation	700% (min)	650% (min)
AQL	1.5	1.5
Length	9.5"	9.5"

Powder-Free Nitrile Exam Gloves

HIGH FIVE® HIGH PERFORMANCE GLOVES

- 100% latex-free with no natural rubber proteins
- Odor-free nitrile
- Superior tear, puncture, and chemical resistance
- Fully textured for exceptional wet grip and sensitivity
- Passes viral penetration test (ASTM F1671)

Need more protection in a nitrile glove?

These fully textured gloves offer exceptional gripping power without compromising tactile sensitivity.

There are no irritating MBTs or thiurams used in production and no detectable carbamates that might cause skin reactions or allergies. Quality assurance levels are set to meet or exceed federal and ASTM tear and puncture-resistance standards. All gloves are 100% tested for pinholes and defects. The manufacturing process is ISO 9001 certified.

Non-sterile; approved for medical use (FDA 510k).
Each box is color coded by size for easy identification.

Premium White Nitrile Gloves
Ambidextrous. 9½" long with beaded cuff.

Premium nitrile gloves, box of 100	$26.50
Premium nitrile gloves, case of 1000	$223.50

Extra Protection Long Nitrile Gloves
Ambidextrous with beaded cuff. Extended 12" length provides additional protection. Tested for use with chemotherapy drugs (ASTMF739).

Extra Protection nitrile gloves, case of 500	$142.50

Premium White Nitrile Gloves

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Small	Box	100	4916-2200
	Case	10 x 100	4906-2200
Medium	Box	100	4916-3300
	Case	10 x 100	4906-3300
Large	Box	100	4916-4400
	Case	10 x 100	4906-4400
Extra Large	Box	100	4916-5500
	Case	10 x 100	4906-5500
Extra Protection 12" Long Teal Nitrile Gloves			
Small	Case	10 x 50	4906-2212
Medium	Case	10 x 50	4906-3312
Large	Case	10 x 50	4906-4412
Extra Large	Case	10 x 50	4906-5512

SPECIFICATIONS

	9.5" White	12" Teal
Material	100% low modulus nitrile	
Color	White	Teal
Finish	Textured	Textured
Thickness (mil) ± 0.01		
Palm	5.5	6.0
Finger	6.0	7.0
Cuff	4.5	4.5
Tensile strength	20.5 Mpa (min)	21 Mpa (min)
Elasticity/Elongation	700% (min)	500% (min)
AQL	1.5	1.5
Length	9.5"	12"

HIGH FIVE® HIGH PERFORMANCE GLOVES

NEOGARD® Powder-Free Exam Gloves

- Synthetic material with the flexibility of latex
- Textured fingers for exceptional wet grip
- Passes viral penetration test (ASTM F1671)

Neogard™ powder-free chloroprene gloves provide a superior fit and feel that you will notice immediately. These durable gloves are puncture resistant and eliminate concerns associated with latex allergies or nitrile sensitivities. Ambidextrous, 9½" long with beaded cuff.

Meets or exceeds federal and ASTM tear and puncture-resistance standards. ISO 9001 certified. Non-sterile; approved for medical use (FDA 510k). Each box is color coded by size for easy identification.

Neogard® gloves, box of 100 $24.75
Neogard® gloves, case of 1000 $199.00

SPECIFICATIONS	
Material	Chloroprene
Color	Green
Finish	Textured fingers
Thickness (mil) ± 0.01	
Palm	5.1
Finger	6.7
Cuff	4.3
Tensile strength	14 Mpa (min)
Elasticity/Elongation	700% (min)
AQL	1.5
Length	9.5"

SIZE	PACKAGE	QUANTITY	CATALOG NO.
Small	Box	100	4913-2200
	Case	10 x 100	4903-2200
Medium	Box	100	4913-3300
	Case	10 x 100	4903-3300
Large	Box	100	4913-4400
	Case	10 x 100	4903-4400
Extra Large	Box	100	4913-5500
	Case	10 x 100	4903-5500

HIGH FIVE® HIGH PERFORMANCE GLOVES

Applause Exam Gloves

SIZE	CATALOG NO.
Small	4902-2200
Medium	4902-3300
Large	4902-4400
Extra Large	4902-5500

- 100% latex-free with no natural rubber proteins
- High elasticity and tensile strength
- Ambidextrous, 9½" long with beaded cuff

Powder-free, tan synthetic gloves do not contain allergy-causing proteins. The proprietary PVC formulation creates a durable, form-fitting glove. Not for use with solvents, aggressive chemicals, or high risk applications.

Non-sterile; approved for medical use (FDA 510k). Manufacturing process is ISO 9001 certified. Each box is color coded by size for easy identification. 100/box.

Applause synthetic gloves, case of 1000 $120.75

SPECIFICATIONS	
Thickness (mil) ± 0.01	5.0 mil
Tensile strength	20.5 Mpa (min)
Elasticity/Elongation	700% (min)
AQL	1.5
Length	9.5"

Glove Box Holders

- Mount on the wall near sinks, doors, hoods, etc.
- Install under a cabinet to keep bench tops clear
- Aids quick one-handed dispensing

Single holder includes heavy duty magnetic tape. Both holders include wood screws for hanging. Acrylic.

3043-4590 Single holder $58.50
3033-4590 Triple holder $146.25

CHEMICAL COMPATIBILITY OF GLOVE MATERIALS

CHEMICAL	NITRILE	LATEX
Acetaldehyde	POOR	GOOD
Acetic acid	GOOD	EXCELLENT
Acetic anhydride	FAIR	GOOD
Acetone	FAIR	GOOD
Acetonitrile	FAIR	FAIR
Ammonium fluoride, 30-70%	EXCELLENT	EXCELLENT
Ammonium hydroxide, <30%	EXCELLENT	EXCELLENT
Amyl alcohol	EXCELLENT	GOOD
Aniline	FAIR	GOOD
Aqua regia	POOR	POOR
Benzaldehyde	POOR	POOR
Benzene	FAIR	POOR
Boric acid	EXCELLENT	GOOD
Bromopropionic acid	FAIR	GOOD
Butyl cellusolve	GOOD	GOOD
Carbon disulfide	GOOD	POOR
Carbon tetrachloride	POOR	POOR
Chlorobenzene	POOR	POOR
Chloroform	POOR	POOR
Chromic acid	FAIR	POOR
Cisplatin	GOOD	GOOD
Cyclohexane	EXCELLENT	POOR
Cyclohexanol	EXCELLENT	GOOD
Cyclohexanone	POOR	POOR
Cyclohexylamine	POOR	POOR
Di-n-amylamine	EXCELLENT	POOR
Di-butylamine	EXCELLENT	POOR
Di-n-butyl phthalate	EXCELLENT	FAIR
Di-n-octyl phthalate	EXCELLENT	FAIR
Diacetone alcohol	GOOD	FAIR
Dichloroacetyl chloride	POOR	POOR
Diesel fuel	EXCELLENT	POOR
Diethanolamine	EXCELLENT	EXCELLENT
Diethylamine	GOOD	FAIR
Diethylene glycol	EXCELLENT	EXCELLENT
Diethylenetriamine	POOR	POOR
Diisobutyl ketone	GOOD	POOR
Diisobutylamine	EXCELLENT	POOR
Dimethyl ether	GOOD	POOR
Dimethyl sulfoxide (DMSO)	GOOD	EXCELLENT
Dimethylacetamide	FAIR	GOOD
Dimethylformamide (DMF)	POOR	POOR
1,3-dioxane	POOR	FAIR
1,4-dioxane	POOR	POOR
Ethanol	EXCELLENT	EXCELLENT
Ethyl acetate	POOR	FAIR
Ethyl ether	GOOD	POOR
Ethylene glycol dimethyl ether	FAIR	FAIR
Ethylene dichloride	POOR	POOR
Ethylene glycol	EXCELLENT	EXCELLENT
Formaldehyde, 30-70%	EXCELLENT	GOOD
Formic acid	GOOD	EXCELLENT
Freon 113 or tf	EXCELLENT	POOR
Freon tmc	FAIR	FAIR
Furfural	POOR	POOR
Gasoline, 40-50% aromatics	EXCELLENT	POOR
Glutaraldehyde, <5%	GOOD	POOR
Glycerol	EXCELLENT	EXCELLENT
Heptanes	EXCELLENT	POOR
Hexamethyldisiloxane	GOOD	POOR
Hexane	EXCELLENT	POOR
Hydrazine	EXCELLENT	FAIR
Hydrochloric acid, <30%	GOOD	EXCELLENT

CHEMICAL	NITRILE	LATEX
Hydrochloric acid, 30-70%	GOOD	GOOD
Hydrofluoric acid, <50%	EXCELLENT	EXCELLENT
Isobutyl alcohol	EXCELLENT	POOR
Isooctane	EXCELLENT	POOR
Isopropyl alcohol	EXCELLENT	EXCELLENT
Kerosene	EXCELLENT	POOR
Lactic acid	EXCELLENT	EXCELLENT
Methanol	FAIR	FAIR
Methyl acetate	POOR	POOR
Methyl ethyl ketone	POOR	POOR
Methyl isobutyl ketone	POOR	POOR
Methyl methacrylate	POOR	POOR
Methylene chloride	POOR	POOR
N-amyl acetate	FAIR	POOR
N-butyl acetate	FAIR	POOR
N-methyl-2-pyrrolidone	POOR	EXCELLENT
N-propyl alcohol	EXCELLENT	EXCELLENT
Naptha, <3% aromatics	EXCELLENT	POOR
Naptha, 15-20% aromatics	EXCELLENT	EXCELLENT
Nitric acid, <30%	EXCELLENT	POOR
Nitric acid, 30-70%	POOR	POOR
Nitrobenzene	FAIR	FAIR
Nitroethane	POOR	EXCELLENT
Octane	EXCELLENT	POOR
Octyl alcohol	EXCELLENT	EXCELLENT
Oleic acid	EXCELLENT	GOOD
PCB (polychlorinated biphenyls)	GOOD	POOR
Pentachlorophenol	GOOD	POOR
Pentane	EXCELLENT	POOR
Perchloric acid, 30-70%	EXCELLENT	FAIR
Perchlorethylene	GOOD	POOR
Peroxyacetic acid	POOR	POOR
Petroleum ethers, 80-100c	GOOD	POOR
Phenol, >70%	GOOD	GOOD
Phosphoric acid, >70%	EXCELLENT	GOOD
Picric acid	EXCELLENT	GOOD
Potassium hydroxide	EXCELLENT	GOOD
Potassium iodide	EXCELLENT	EXCELLENT
Propyl actetate	FAIR	POOR
Pyridine	POOR	POOR
Silver nitrate	GOOD	EXCELLENT
Sodium carbonate	EXCELLENT	EXCELLENT
Sodium chloride	EXCELLENT	EXCELLENT
Sodium fluoride	EXCELLENT	EXCELLENT
Sodium hydroxide, 30-70%	EXCELLENT	EXCELLENT
Sodium hypochlorite	EXCELLENT	EXCELLENT
Sodium thiosulfate	EXCELLENT	EXCELLENT
Sulfuric acid, <30%	NO INFO	EXCELLENT
Sulfuric acid, 30-70%	FAIR	EXCELLENT
Sulfuric acid, >70%	POOR	POOR
Tannic acid	GOOD	GOOD
1,2,4,5-tetrachlorobenzene	EXCELLENT	NO INFO
1,1,1,2-tetrachloroethane	FAIR	POOR
Tetrahydrofuran	FAIR	POOR
Toluene	FAIR	POOR
Toluene-2,4-diisocyanate (TDI)	POOR	POOR
1,2,4-trichlorobenzene	FAIR	POOR
1,1,1-trichloroethane	POOR	POOR
1,1,2-trichloroethane	POOR	POOR
Trichloroethylene	POOR	POOR
Tricresyl phosphate	GOOD	GOOD
Turpentine	EXCELLENT	POOR
Xylenes	FAIR	POOR

This information should be used for reference purposes only. User must proceed with caution when handling these chemicals.

Prices and products subject to change without notice. See www.usascientific.com for current information.

CHEMICAL COMPATIBILITY OF CHLOROPRENE GLOVES

The chemical compatibility information on this chart is intended to provide general information about the reactions of chloroprene gloves to commonly used chemicals. Chloroprene exam gloves are thin-gauge disposable products and are not designed for applications involving prolonged, direct exposure to chemicals. The rating scale (poor to excellent) takes into consideration 1) the ability of the chemical to permeate the glove; 2) the ability of the chemical to degrade or break down the physical structure of the glove; and 3) the risk to the wearer from contact exposure to the chemical.

CHEMICAL	COMPATIBILITY
Acetaldehyde	FAIR
Acetic Acid	FAIR
Acetic Anhydride	EXCELLENT
Acetone	FAIR
Acrylonitrile	FAIR
Amyl Alcohol	EXCELLENT
Aluminum Hydroxide	EXCELLENT
Aluminum Sulfate	EXCELLENT
Ammonia, 10%	EXCELLENT
Ammonia, Anhydrous	EXCELLENT
Ammonium Acetate	EXCELLENT
Ammonium Hydroxide, 30-70%	EXCELLENT
Ammonium Sulfate	EXCELLENT
Aniline	POOR
Benzaldehyde	POOR
Benzene	POOR
Butane	EXCELLENT
Butyl Alcohol	EXCELLENT
Calcium Carbonate	EXCELLENT
Calcium Hydroxide	EXCELLENT
Calcium Nitrate	EXCELLENT
Calcium Oxide	EXCELLENT
Carbon Tetrachloride	POOR
Chlorobenzene	POOR
Chloroform	POOR
Citric Acid	EXCELLENT
Copper Nitrate	EXCELLENT
Cresol	POOR
Cupric Acid	EXCELLENT
Cyclohexane	POOR
Cyclohexanone	POOR
o-Dichlorobenzene	POOR
1, 2-Dichloroethane	POOR
Diethylamine	EXCELLENT
Diesel Fuel	GOOD
Diethanolamine	EXCELLENT
Diethylene Glycol	EXCELLENT
Dimethyl Formamide	POOR
Ethyl Acetate	POOR
Ethyl Alcohol	EXCELLENT
Ethyl Ether	POOR
Ethylene Glycol	EXCELLENT
Formaldehyde, 30-70%	GOOD
Formic Acid	FAIR
Freon TF	EXCELLENT

CHEMICAL	COMPATIBILITY
Furfural	FAIR
Gasoline, Unleaded	FAIR
Glycolic Acid	EXCELLENT
Heptane	FAIR
Hexane	FAIR
Hexyl Alcohol	EXCELLENT
Hydraulic Oil	EXCELLENT
Hydrazine	EXCELLENT
Hydrochloric Acid, 37%	EXCELLENT
Isobutyl Alcohol	EXCELLENT
Isooctane	EXCELLENT
Kerosene	EXCELLENT
Lactic Acid	EXCELLENT
Methyl Alcohol	POOR
Methyl Acetate	POOR
Methyl Amine	POOR
Methyl Ethyl Ketone	EXCELLENT
Methyl Isobutyl Ketone	EXCELLENT
Methylene Chloride	EXCELLENT
Mineral Oil	EXCELLENT
Mineral Spirits	EXCELLENT
Morpholine	EXCELLENT
Nitric Acid, 5-10%	POOR
Nitrobenzene	POOR
Oleic Acid	POOR
Pentane	EXCELLENT
Perchloric Acid, 30-70%	EXCELLENT
Perchloroethylene	POOR
Petroleum	EXCELLENT
Phosphoric Acid	POOR
Potassium Hydroxide	POOR
Propyl Alcohol	POOR
Soda Ash	POOR
Sodium Bisulfide	EXCELLENT
Sodium Carbonate	GOOD
Sodium Hydroxide	EXCELLENT
Sodium Hypochlorite	EXCELLENT
Stearic Acid	POOR
Stoddard Solvent	POOR
Sulfuric Acid, 10-75%	EXCELLENT
Tannic Acid	POOR
Tricresyl Phosphate	EXCELLENT
Triethanolamine	GOOD
Trisodium Phosphate	FAIR

This information should be used for reference purposes only. User must proceed with caution when handling these chemicals.

F

PLATES AND SEALING FILM

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USA SCIENTIFIC®

- **Sample Preparation**
- **Compound Storage**
- **Washing**
- **Diluting**
- **Cloning**
- **Incubating**
- **Purification**
- **Precipitations**
- **Centrifugation**
- **Analysis**
- **Screening**

PlateOne®

High Functionality and Solvent Resistance

Polypropylene plates can be a better choice than polystyrene when greater solvent resistance, reduced non-specific binding, heat sealing, higher centrifugation strength, and/or a wider functional temperature range is important. Applications that benefit from these features include bacterial and yeast cultures, cloning, DNA/RNA precipitations, cell lysis, and storage of proteins and compounds.

PlateOne offers several advantages compared to other brands of polypropylene plates. See page F3 for additional information.

- High contrast, easy to read alphanumerics
- Bottom shape indicator on each plate
- Excellent centrifugation strength
- Consistently level tops for reliable sealing with films and foils
- Chimney wells and raised well rims to prevent cross contamination
- Stacks without damage to sealing films or foils
- Dimensions are compatible with automated equipment
- Certified free of detectable RNase, DNase, and DNA
- Sterile plates are certified non-pyrogenic

PlateOne is available in several sizes and configurations. All PlateOne plates are made from pure virgin polypropylene. No biocides or processing additives are used during production. Your results will not be compromised by potentially bioactive ingredients. All plates are sealed in plastic and remain protected until you are ready to use them. Sturdy packing boxes provide additional protection. All plates are certified free of detectable RNase, DNase, and DNA. Sterile plates are also certified free of detectable pyrogens.

Please see pages F4-F5 for specifications and ordering information. Barcoding is available; please call for information or see our online form at www.usascientific.com.

Deep well 2.0 ml 96-well

Deep well 1.0 ml 96-well

Deep well 0.5 ml 96-well

Deep well 384-well

Multiple well 96-well

Multiple well 384-well

PlateOne®

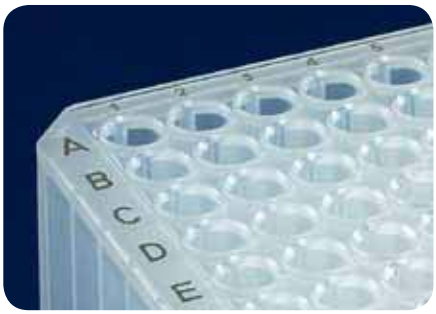
Give Yourself all the Advantages with PlateOne® Deep Well and Multiple Well Plates

- High contrast, etched alphanumerics help identify wells more easily than molded alphanumerics.
- Each plate has a convenient well bottom shape indicator letter.
- Strong construction allows centrifugation for extended periods or at cool temperatures (see page F4 for specifications).
- PlateOne can be heat-sealed or sealed with a variety of films, foils, EVA sealing mats, or TPE cap mats. Deep well 96-well plates have raised rims, and all plates have even, consistently level surfaces to ensure good contact with sealing films and foils. As a result, evaporation is minimized and cross contamination is avoided.
- PlateOne plates are skirted and stack without nesting of the individual wells. Sealing films and foils will not be damaged or distorted. If you stack without sealing film, there is no danger that the bottom of one plate will contact the wells of the plate below.
- 384-well plates have square wells with rounded corners that minimize wicking from capillary action, another possible source of cross contamination.
- Standard dimensions and precision manufacturing ensure compatibility with your automated equipment. PlateOne multiple well plates meet standards ANSI/SLAS 1-2004 through ANSI/SBS 4-2004. PlateOne deepwell plates meet standards ANSI/SLAS 1-2004, ANSI/SLAS 3-2004, and ANSI/SLAS 4-2004.
- PlateOne is certified free of detectable RNase, DNase, and DNA. Sterile plates are also certified non-pyrogenic.

Can your polypropylene plate pass all of these tests? PlateOne® can.

Row/column alphanumeric labels easily visible	Pass
Reliable sealing without cross contamination or stacking damage	Pass
Rounded corners on 384-well plates prevent wicking	Pass
Centrifugation at 6,000 x g for extended periods	Pass
No processing additives that could affect results	Pass
RNase, DNase, and DNA free	Pass

Other brands may pass two or three tests. Will your brand pass all six? Why not choose the one plate that will work throughout multiple phases of your procedures?



Easy to read alphanumerics; A1 orienting notch; raised rims on deep well plates aid sealing and guard against well-to-well contamination.

384-well plates have square wells with rounded corners that minimize capillary wicking.

Bottom shape indicator letter; chimney wells on multiple well plates eliminate cross contamination.

Skirted plates stack easily without well nesting or damage to films or foils.

Prices and products subject to change without notice. See www.usascientific.com for current information.

Flat bottom 96-well plates

Conical bottom 384-well plates

MULTIPLE WELL PLATE SPECIFICATIONS

Temperature range	-86°C to 125°C
Centrifugation, ambient	6,000[1] x g, 60 min
Centrifugation, 4°C	6,000[1] x g, 20 min
96-well working/total volume	
Flat bottom	50-370/400 µl
Round bottom	25-320/360 µl
Conical bottom	25-320/350 µl
384-well working/total volume	
Flat bottom	15-140/150 µl
Conical bottom	10-125/140 µl

[1]Sterile plates have a maximum rate of 5,000 x g.

PlateOne®

Multiple Well Plates

Polypropylene plates feature high contrast, easy to read alphanumerics, a well-bottom shape indicator (F, U, or V), and an A1 orienting notch. High clarity enhances viewing.

PlateOne 96-well plates have chimney wells that help prevent cross-contamination. 384-well plates have square wells with rounded corners for reduced wicking and raised well rims for better sealing. All plates have stacking skirts and meet standards ANSI/SLAS 1-2004 through ANSI/SLAS 4-2004*. They are certified free of detectable RNase, DNase, and DNA. Sterile plates are also certified free of detectable pyrogens. **Please see pages F2-F3 for additional information.**

All plates are packed in tamper evident zip top bags.

		1-9	10+
96-Well Flat Bottom (F) Chimney Well Plates			
Flat bottom maximizes total storage volume.			
1837-9600	20/sleeve, 80/case	$198.00	$181.25
1837-9610	20/sleeve, 80/case, sterile	$237.50	$217.50
96-Well Round Bottom (U) Chimney Well Plates			
Round bottoms eliminate corners for efficient rinsing and mixing.			
1830-9600	20/sleeve, 80/case	$198.00	$181.25
1830-9610	20/sleeve, 80/case, sterile	$237.50	$217.50
96-Well Conical Bottom (V) Chimney Well Plates			
Conical bottom maximizes withdrawal to minimize dead volume.			
1833-9600	20/sleeve, 80/case	$198.00	$181.25
1833-9610	20/sleeve, 80/case, sterile	$237.50	$217.50
384-Well Flat Bottom (F) Plates			
Flat bottom maximizes total storage volume.			
1843-8400	20/sleeve, 80/case	$285.25	$256.75
1843-8410	20/sleeve, 80/case, sterile	$341.50	$307.50
384-Well Conical Bottom (V) Plates			
Conical bottom maximizes withdrawal to minimize dead volume.			
1823-8400	20/sleeve, 80/case	$285.25	$256.75
1823-8410	20/sleeve, 80/case, sterile	$341.50	$307.50

Lids for Polypropylene Plates

Polystyrene ultra low profile lids fit PlateOne polypropylene multiple well or deep well plates. Greiner Bio-One.

5669-1101	Polystyrene lid, 5/sleeve, 100/case	$228.50
5669-1161	Polystyrene lid, sterile, 5/sleeve, 100/case	$244.00

Please see pages F10-F15 for information on gas permeable or other sealing films.

*Plates measure 127.8 mm L x 85.5 mm W x 14.35 mm H.
Additional specifications are online at www.usascientific.com.

PlateOne® Deep Well Plates

Polypropylene plates have high contrast, solvent-resistant alphanumerics. Raised well rims reduce cross contamination and provide good contact for sealing films. Rounded conical well bottoms minimize dead volumes and are clear for easy sample viewing. An A1 notch aids orientation and skirts allow stacking without damage to sealing films or foils. All plates are certified free of detectable RNase, DNase, and DNA. Sterile plates are also certified free of detectable pyrogens.

Please see pages F2-F3 for additional information.

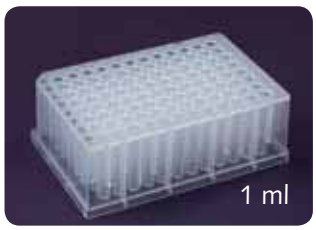
Bulk plates are sealed in zip top bags; plates in sleeves have tamper evident zip top sealing strips. Sterile plates are individually wrapped. All plates are 127.8 mm L x 85.5 mm W and meet standards ANSI/SLAS 1-2004, ANSI/SLAS 3-2004, and ANSI/SLAS 4-2004.

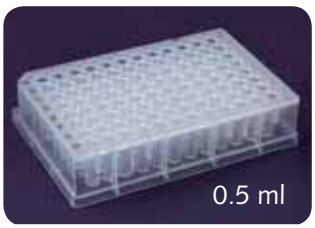
96-Well 2 ml Plates	**1-9**	**10+**
1896-2000 Bulk, 20/pack	$104.00	$92.50
1896-2800 5/sleeve, 20/pack	$115.25	$102.75
1896-2110 1/sleeve, 20/pack, sterile	$138.50	$123.50
96-Well 1 ml Plates		
1896-1000 Bulk, 20/pack	$84.50	$73.50
1896-1800 5/sleeve, 20/pack	$91.75	$81.25
1896-1110 1/sleeve, 20/pack, sterile	$108.25	$97.50
96-Well 0.5 ml Plates		
1896-5000 Bulk, 32/pack	$174.75	$155.50
1896-5800 8/sleeve, 32/pack	$193.75	$172.25
1896-5110 1/sleeve, 32/pack, sterile	$232.75	$205.75
384-Well 200 µl Plates		
1884-2000 Bulk, 40/pack	$243.50	$216.25
1884-2400 10/sleeve, 40/pack	$269.75	$241.25
1884-2410 1/sleeve, 40/pack, sterile	$323.75	$289.50

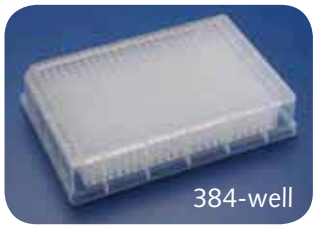
EVA Sealing Mats

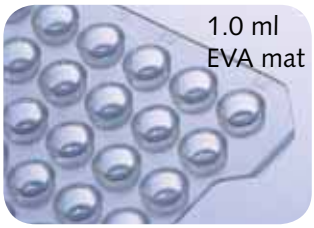
Flexible ethylene vinyl acetate sealing mats are DMSO resistant. For temperatures from -20°C to +60°C. 10/sleeve, 50/case.

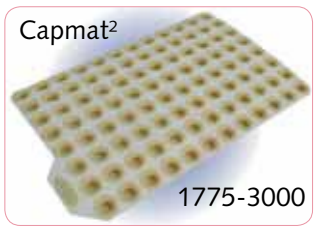
5638-1070 96 round wells $145.25











See pages B22-B23 for more sealing mats and caps.
See pages F10-F15 for sealing films and foils.

DEEP WELL PLATE SPECIFICATIONS

Plate	2 ml	1 ml	0.5 ml	200 µl
Wells	96	96	96	384
Well shape	Square	Round	Round	Rounded Square
Working volume	100-2000 µl	50-1000 µl	30-500 µl	20-200 µl
Total volume	2400 µl	1200 µl	700 µl	240 µl
Height	44.1 mm	44.1 mm	27.1 mm	25.1 mm
Temperature range	-86°C to 125°C			
Centrifugation, ambient	6,000[1] x g, 60 minutes			
Centrifugation, 4°C	6,000[1] x g, 20 minutes			

[1]Sterile polypropylene plates have a maximum rate of 5,000 x g.
[2]Micronic Capmats and Capcluster TPE mats. See www.usascientific.com or pages B22-B23.

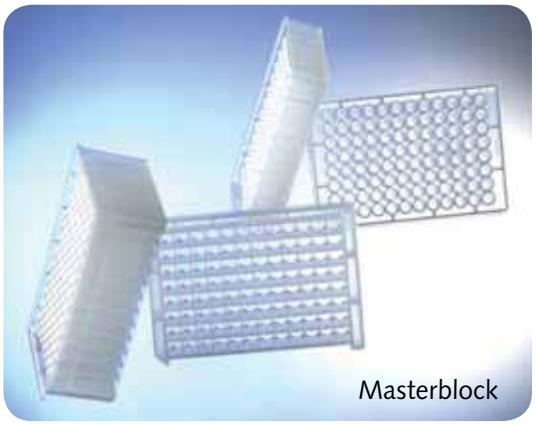
Prices and products subject to change without notice. See www.usascientific.com for current information.

Polypropylene 96-Well Plates

Clear polypropylene plates have low biomolecular binding characteristics, a high temperature tolerance, and are resistant to many standard laboratory chemicals, such as DMSO. Natural color; call for information about black, white, red, blue, green, or yellow plates. Free of endotoxins, DNases, RNases, and human DNA. Greiner Bio-One.

Flexible ethylene vinyl acetate (EVA) cap mat is DMSO resistant and withstands temperatures from -20°C to +60°C.

5665-1201	V-bottom, 340 µl, 10/sleeve, 100/case	$195.75
5665-0201	U-bottom, 355 µl, 10/sleeve, 100/case	$195.75
5665-5201	F-bottom, 392 µl, 10/sleeve, 100/case	$195.75
5638-1070	Round well EVA mat, 10/sleeve, 50/case	$145.25

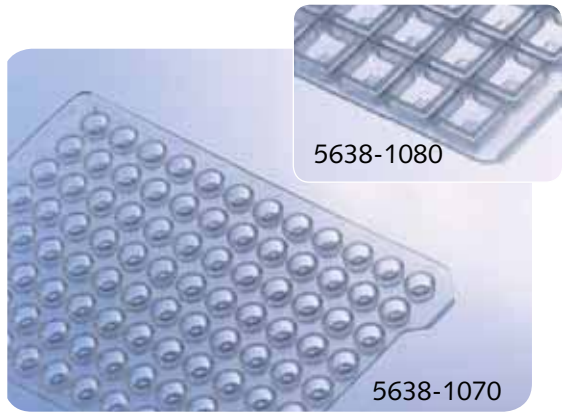


Masterblock® 96-Well Deep Well Plates

Greiner Bio-One polypropylene plates are excellent storage plates for active agents, patient samples, or biomolecules. They are biologically inert, resistant to solvents commonly used in the lab, and are temperature resistant from -196° to +121°C. 0.5 and 2.0 ml plates have V-bottom wells; 1.0 ml plates have round bottom wells. Natural color; call for information about red, blue, green, or yellow plates. Free of endotoxins, DNases, RNases, and human DNA.

Flexible ethylene vinyl acetate (EVA) cap mat is DMSO resistant and withstands temperatures from -20°C to +60°C.

5678-6201	0.5 ml round wells, 780 µl, 8/sleeve, 80/case	$353.50
5678-0215	1.0 ml round wells, 1.22 ml, 5/sleeve, 50/case	$224.75
5678-0285	2.0 ml square wells, 2.42 ml, 5/sleeve, 50/case	$230.25
5638-1070	Round well EVA mat, 10/sleeve, 50/case	$145.25
5638-1080	Square well EVA mat, 10/sleeve, 50/case	$153.75



Polypropylene 384-Well Plates

Polypropylene plates have square-rounded wells and conform to laboratory automation standards. Free of endotoxins, DNases, RNases, and human DNA. Greiner Bio-One.

Standard Height

5678-1280	V-bottom, 140 µl, 10/sleeve, 100/case	$370.00
5678-1201	F-bottom, 152 µl, 10/sleeve, 100/case	$356.25

Deep Well

5678-1270	V-bottom, 240 µl, 6/sleeve, 60/case	$356.25

Greiner Bio-One Polystyrene Plates

Clear 96-well plates have industry standard dimensions for trouble-free performance with automated washers, plate readers, and robotic systems. Lids sold separately.

Half Area plates retain the standard 9 mm spacing, but have smaller diameter flat wells and require less working volume. They feature a standardized well volume path length where 1 cm equals 170 µl and 0.5 cm equals 80 µl.

Free of DNases, RNases, and human DNA. Sterile items are free of detectable endotoxin.

CATALOG NO.	WELL BOTTOM	WORKING/ TOTAL VOLUME	STERILE	SLEEVE/CASE QTY	PRICE
5665-5101	Flat	25-340/382 µl	--	5/100	$83.25
5665-5161	Flat		Yes	2/100	$96.00
5665-0101	U	40-280/323 µl	--	5/100	$78.25
5665-0161	U		Yes	2/100	$93.25
5665-1101	V	40-200/234 µl	--	5/100	$78.25
5665-1161	V		Yes	2/100	$96.00
5667-5101	Half Area	15-175/199 µl	--	10/40	$164.50
5665-6101	Polystyrene lid		--	1/100	$60.50
5665-6161			Yes	1/100	$78.25

See pages F10-F15 for sealing films and foils.

Nunc® MicroWell Plates

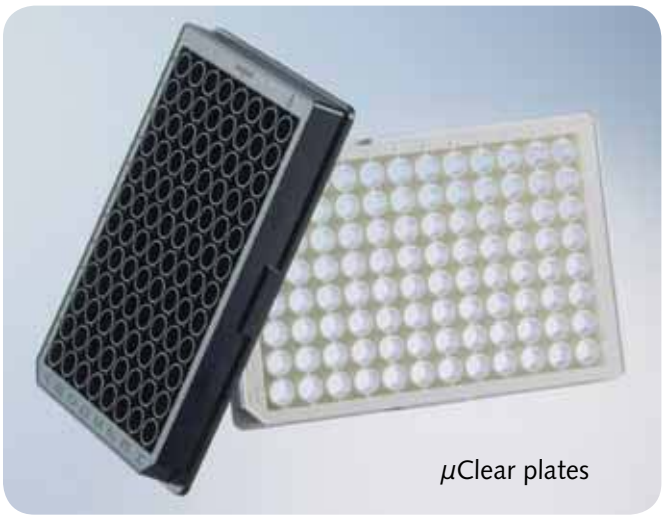
Use for antibiotic screens, serological tests, and storing and screening of compounds or DNA libraries. 96-well plates have raised well rims that reduce the risk of cross contamination. Pinch bar and high flange options aid automated handling. Working volume: 50-250 µl. Clear, non-treated polystyrene.

CATALOG NO.	WELL BOTTOM	FEATURE	STERILE	SLEEVE/ CASE QTY	PRICE
4626-2162*	U	High flange	Yes	1/50	$157.00
4624-9662	V	Pinch bar	Yes	1/50	$157.00
4624-9570	V	Pinch bar	--	10/180	$376.00
4626-9620	Flat	Pinch bar	--	5/60	$126.00
4626-9787	Flat	Pinch bar	Yes	1/50	$157.00
4626-3339	Non-reversible lid with condensation rings		--	5/100	$169.00
4626-4122			Yes	1/50	$124.00

*Includes lid

Additional Nunc plates are available. For more information or a complete catalog, please call 1-800-522-8477.
Plate packaging formats and prices subject to change. Please call 800-522-8477 for current information.

Solid color plates


μClear plates

Immunology Plates

- Clear plates are ideal for ELISA
- Black plates minimize background fluorescence
- White plates minimize cross-talk with luminescence procedures
- μClear® plates offer options for detection systems that read from the bottom

MICROLON®, FLUOTRAC™, and LUMITRAC™ 600 are high binding surfaces that have been specifically treated for increased protein binding. MICROLON, FLUOTRAC, and LUMITRAC 200 offer medium binding, are more hydrophobic than high binding surfaces, and are often more suitable for non polar proteins and peptides. Free of endotoxins, DNases, RNases, and human DNA. Clear polystyrene. Lids sold separately.

Black, white, and μClear plates have a chimney well design. All plates listed have flat bottom wells; visit www.usascientific.com for other options.

μClear polystyrene plates have micro-thin, clear flat bottoms. A choice of black or white sides makes these plates ideal for luminescence or fluorescence assays with detection systems that read from the bottom.

Half Area plates retain the standard 9 mm spacing but have smaller diameter wells and require less working volume. They feature a standardized well volume path length where 1 cm equals 170 μl and 0.5 cm equals 80 μl.

Clear and Solid Color Plates

CATALOG NO.	BINDING SURFACE	COLOR	WORKING/ TOTAL VOLUME	SLEEVE/ CASE QTY	PRICE
5665-5061	Microlon 600	Clear	25-340/382 μl	5/40	$74.75
5665-5077	Fluotrac 600	Black	25-340/392 μl	5/40	$78.25
5665-5074	Lumitrac 600	White	25-340/392 μl	5/40	$83.25
5665-5001	Microlon 200	Clear	25-340/382 μl	5/40	$74.00
5665-5076	Fluotrac 200	Black	25-340/392 μl	5/40	$76.00
5665-5075	Lumitrac 200	White	25-340/392 μl	5/40	$76.00
Half Area Plates					
5667-5001	Microlon 200	Clear	15-175/199 μl	10/40	$164.50
5667-5061	Microlon 600	Clear	15-175/199 μl	10/40	$178.25

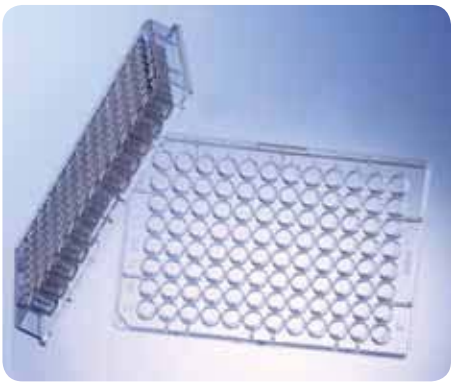
μClear® Bottom Plates

CATALOG NO.	BINDING SURFACE	COLOR	WORKING/ TOTAL VOLUME	SLEEVE/ CASE QTY	PRICE
5665-5097 *	Fluotrac 600 (high)	Black	25-340/392 μl	10/40	$230.00
5665-5094 *	Lumitrac 600 (high)	White	25-340/392 μl	10/40	$235.75
5665-5096	Fluotrac 200 (medium)	Black	25-340/392 μl	10/40	$225.00
5665-5095	Lumitrac 200 (medium)	White	25-340/392 μl	10/40	$230.25

*Sterile

Additional Greiner Bio-One plates are available. All plates are also available with bar codes.
For more information or a complete catalog, please call 1-800-522-8477.

UV-Star® UV Transparent Plates



Analyze DNA and protein samples at 260 nm or 280 nm in disposable plates! Proprietary resin has optical properties similar to quartz. Read down to 230 nm without buying or washing fragile, expensive quartz plates. Free of endotoxins, DNases, RNases, and human DNA. 10/sleeve, 40/case.

Half Area plates have smaller diameter wells with standard 9 mm spacing. They feature a standardized well volume path length where 1 cm equals 170 µl and 0.5 cm equals 80 µl.

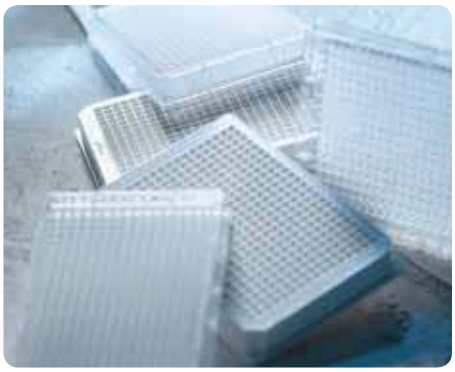
96-Well

5665-5801	Flat bottom, working/total volume: 25-340/392 µl	$400.75
5667-5801	Half Area, working/total volume: 15-175/199 µl	$408.25

384-Well

5678-1801	Flat bottom, working/total volume: 15-110/138 µl	$775.00

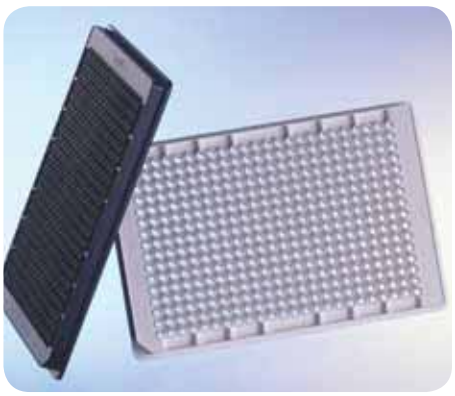
Polystyrene 384-Well Plates



Flat bottom wells with a rounded square design that minimizes wicking. Industry standard dimensions. Working volume: 10-130 µl; total volume: 138 µl. Free of endotoxins, DNases, RNases, and human DNA.

5678-1101	Clear plate, 10/sleeve, 100/case	$405.50
5678-1186	Clear plate with lid, 8/sleeve, 32/case, sterile	$186.00
5678-1076	Black, medium binding, 10/sleeve, 40/case	$203.00
5678-1075	White, medium binding, 10/sleeve, 40/case	$214.25
5665-6101	Polystyrene cover, individually wrapped, 100/case	$60.50

Small Volume 384-Well Plates



Small volume plates save reagent costs. Outer dimensions are the same as standard plates. HiBase design is optimized for standard readers and CCD cameras. Free of endotoxins, DNases, RNases, and human DNA. Working volume: 4-25 µl; total volume: 28 µl. 10/sleeve, 40/case. Polystyrene.

5678-4101	Clear	$356.25
5678-4076	Fluotrac™ 200, medium binding, black	$370.00
5678-4075	Lumitrac™ 200, medium binding, white	$370.00

Bar Coded Plates

Greiner-Bio-One plates are available with custom barcode labels. Advantages include:

- Solvent, temperature, and smudge resistant label stock
- Choice of label color, style, and size
- Low minimum order requirements
- Custom samples provided prior to order placement
- Choice of label placement
- Electronic verification of placement, readability, and print quality
- Verification reports provided with your order

Please call 1-800-522-8477 for additional information or see our online custom barcode form at usascientific.com.

See pages F10-F15 for sealing films and foils.

Prices and products subject to change without notice. See www.usascientific.com for current information.

SEALING FILM APPLICATION GUIDE

Standard and inset cut will fit most plates. Plates with raised outer walls will require inset cut film or foil.

Application	Format	Pierceable	Recommended Films or Foils	Catalog No.	Page
Bacterial and Cell Culture	Standard	No	Breathe-Easy®	9123-6100	F15
	Standard	Yes	Microporous Film	2920-1000	F15
	Standard	Yes	EasyApp™ Microporous Film	2978-5872	F11
	Automation	Yes	Microporous Film Automation Roll	2972-8110	F15
Cold Storage to -40°C, Screening	Standard	No	TempPlate® Film	2921-0000	F12
	Standard	Yes	Single Tab Foil	2938-4100	F13
	Inset Cut	Yes	Single Tab Foil	2939-6100	F13
	Standard	No	Microplate Film	2920-0000	F12
	Standard	No	EasyApp™ Microplate Film	2978-5877	F11
	Standard	Yes	Titer-Tops® Film	9188-6775	F12
	Standard	No	TempPlate® XP Film	2972-2100	F12
	Inset Cut	No	Light Absorbing Film	2925-0500	F15
	Standard	No	ColorTab™ Film	2920-0008	F12
Cold Storage to -80°C, Screening	Standard	Yes	TempPlate® Foil	2923-0100	F13
	Standard	Yes	Cold Storage Foil	2932-0100	F13
	Automation	Yes	TempPlate® Foil Automation Roll	2973-8010	F13
ELISA, General Incubation	Standard	No	Microplate Film	2920-0000	F12
	Standard	No	EasyApp™ Microplate Film	2978-5877	F11
	Standard	Yes	Titer-Tops® Film	9188-6775	F12
	Standard	Yes	TempPlate® Foil	2923-0100	F13
	Standard	Yes	Single Tab Foil	2938-4100	F13
	Inset Cut	Yes	Single Tab Foil	2939-6100	F13
	Inset Cut	No	TempPlate® RT Inset Cut Film	2978-2700	F14
	Inset Cut	No	TempPlate® RT Select Film	2921-7800	F14
	Standard	No	ColorTab™ Film	2920-0008	F12
	Strips	No	Microplate FilmStrips	2972-8500	F12
	Automation	Yes	TempPlate® Foil Automation Roll	2973-8010	F13
	Automation	Yes	TempPlate® RT Select Automation	2978-7965	F14
Fluorescence, Photoprotection	Inset Cut	No	Light Absorbing Film	2925-0500	F15
Luminescence, Microscopy	Inset Cut	No	Light Reflecting Film	2998-6550	F15
Microbiology	Standard	Yes	Microporous Film	2920-1000	F15
	Standard	Yes	EasyApp™ Microporous Film	2978-5872	F11
	Standard	No	Breathe-Easy	9123-6100	F15
	Automation	Yes	Microporous Film Automation Roll	2972-8110	F15
Robotics, Pierceability	Standard	Yes	Titer-Tops® Film	9188-6775	F12
	Inset Cut	No	TempPlate® RT Select Film	2921-7800	F14
	Standard	Yes	X-Pierce™ Film	2997-0100	F14
	Standard	Yes	NAL-96 Film	2923-5000	F14
	Automation	Yes	TempPlate® RT Select Automation	2978-7965	F14
PCR, Qualitative	Standard	No	TempPlate® Film	2921-0000	F12
	Standard	No	TempPlate® XP Film	2972-2100	F12
	Inset Cut	No	TempPlate® XP Film	2928-0100	F12
	Standard	Yes	TempPlate® Foil	2923-0100	F13
	Standard	Yes	Single Tab Foil	2938-4100	F13
	Inset Cut	Yes	Single Tab Foil	2939-6100	F13
	Strips	No	TempPlate® Strips	2972-0850	F12
	Automation	Yes	TempPlate® Foil Automation Roll	2973-8010	F13
PCR, Quantitative Real-Time	Standard	No	TempPlate® RT Film	2978-2100	F14
	Inset Cut	No	TempPlate® RT Select Film	2921-7800	F14
	Inset Cut	No	TempPlate® RT Inset Cut Film	2978-2700	F14
	Automation	Yes	TempPlate® RT Select Automation	2978-7965	F14
Protein Crystallization Studies	Inset Cut	No	TempPlate® RT Select Film	2921-7800	F14
	Standard	No	TempPlate® RT Film	2978-2100	F14
	Automation	Yes	TempPlate® RT Select Automation	2978-7965	F14

EasyApp™ Sealing Film System

Pull out one pre-measured length of film, apply it to the plate, tear at the perforation, and sweep the dispenser over the plate for an even seal. The EasyApp™ sealing film system eliminates handling film boxes, bags, and liner paper. Pulling film from the roll is easier than taking one out of a bag. The dispenser also helps you keep a grasp on the film for better alignment, application, and reduced risk of accidental contact. Seal plates easier and up to three times faster than with conventional film.

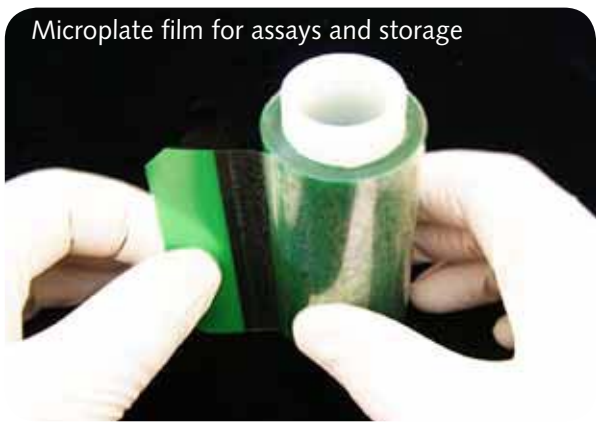
EasyApp™ film rolls are color coded for easy identification and feature the same materials as our standard microplate and microporous films.

EasyApp™ dispenser and film makes sealing microplates easier and faster!

EasyApp™ Microplate Film

Polyester film for ELISA/EIA, short term storage, or incubations. Non-pierceable. For use from -40°C to +120°C. Green end tab; 100 applications/roll. Starter kits include a dispenser and 2 rolls of film (seals 200 plates).

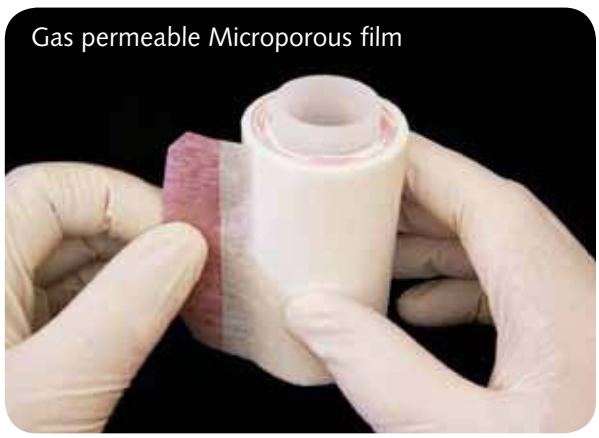
2978-5877	Microplate film starter kit	$117.00
2978-5887	Microplate film starter kit, sterile	$162.50
2977-6772	Microplate film rolls, 2/pack	$108.50
2977-6782	Microplate film rolls, 2/pack, sterile	$147.75


Microplate film for assays and storage

EasyApp™ Microporous Film

Rayon film for cell and bacteria culture allows air and gas exchange while minimizing cross-contamination and evaporation. Pierceable; 140 µm thick. For use from -20°C to +80°C. Red end tab; 50 applications/roll. Starter kits include a dispenser and 2 rolls of film (seals 200 plates).

2978-5872	Microporous film starter kit	$91.25
2978-5827	Microporous film starter kit, sterile	$127.00
2977-6202	Microporous film rolls, 2/pack	$82.50
2977-6282	Microporous film rolls, 2/pack, sterile	$112.25


Gas permeable Microporous film

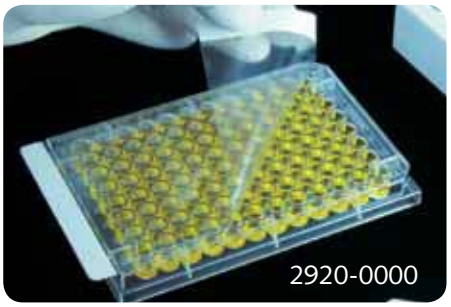
EasyApp™ Dispenser

Dispenser only. Reusable, autoclavable polypropylene dispenser features a locking hinged lid. Use with any EasyApp™ film.

2976-0000	EasyApp dispenser, 1/pack	$18.75
2976-7000	EasyApp dispenser, 1/pack, sterile	$24.75

Specifications for EasyApp™ Films

	Microplate Sealing Film	Microporous Film
Non-sterile	2977-6772	2977-6202
Sterile	2977-6782	2977-6282
Format	Standard cut	Standard cut
End tab	1, green	1, red
Temperature range	-40°C to +120°C	-20°C to +80°C
Dimensions with end tab	79.4 x 139.7 mm	82.6 x 139.7 mm
Material; thickness	Polyester; 38 µm	Rayon; 140 µm
Adhesive; thickness	Acrylic; 25 µm	Medical grade
Pierceable	No	Yes



Microplate Film

Eliminate the "edge effects" that occur with lids. Ideal for ELISA/EIA, incubation, or short term storage. FilmStrips are pre-cut 19 x 102.9 mm strips. ColorTab™ end tabs have white writing areas and assorted color dots for identification. Certified RNase, DNase, and nucleic acid free. Also available in EasyApp™ roll (page F11).

2920-0000	Non-sterile, 100/box	$46.25
2920-0010	Sterile, 100/box	$68.25
2972-8500	FilmStrips, 200/box	$42.50
2920-0008	ColorTab, 50/box	$42.50

Titer-Tops®

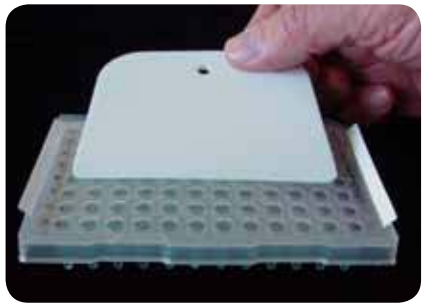
Polyethylene film is non-cytotoxic, gamma sterilized, and easily pierced with a pipet tip. Waterproof, solvent resistant acrylic adhesive remains effective when exposed to 100% humidity. UV transparent to 250 nm. Two scored end tabs. Certified RNase, DNase, and nucleic acid free.

9188-6775	Sterile, 50 sheets/box	$39.00
9188-6771	Sterile, 100 sheets/box	$70.00

TempPlate® Film

Solvent-resistant film withstands the repeated temperature cycles of PCR. If a stronger adhesive is required, see TempPlate® XP film. Also available in pre-cut 19 x 97.3 mm strips for sealing one or two rows. Certified RNase, DNase, and nucleic acid free.

2921-0000	Non-sterile, 100/box	$59.00
2921-0010	Sterile, 100/box	$81.00
2972-0850	Pre-cut strips, 200/box	$57.50



TempPlate® XP Film

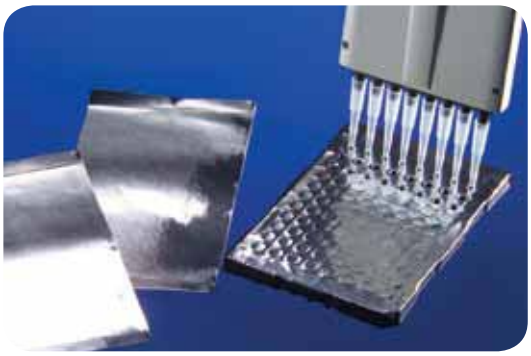
Extra performance sealing film has a strong, flexible base and a thicker adhesive for better adhesion, reduced evaporation, and increased tear resistance. Use for storage or PCR. Inset cut fits standard plates or plates with raised sides. Certified RNase, DNase, and nucleic acid free. 100/sheets box.

2972-2100	Non-sterile, standard cut	$70.50
2928-0100	Non-sterile, inset cut	$69.50

Specifications for Assay, PCR, and Storage Films

	Microplate Sealing Film	Titer-Tops®	TempPlate®	TempPlate® XP
Non-sterile	2920-0000, 2920-0008	--	2921-0000, 2972-0850	2972-2100*
Sterile	2920-0010	9188-6775, 9188-6771	2921-0010	--
Format(s)	Standard cut or strips	Standard cut	Standard cut or strips	Standard cut
End tabs	2	2	2	2
Temperature range	-40°C to +120°C	-40°C to +100°C	-40°C to +120°C	-40°C to +120°C
Dimensions with end tabs	79.4 x 146.1 mm	82.6 x 152.4 mm	79.4 x 135.1 mm	79.4 x 139.7 mm
Length excluding tabs	125.1 mm	127 mm	123.1 mm	125.1 mm
Material; thickness	Polyester; 50 µm	Polyethylene; 112 µm	Polypropylene; 50 µm	Polyester; 50 µm
Adhesive; thickness	Acrylic; 25 µm	Acrylic	Acrylic; 25 µm	Acrylic; 41 µm
Pierceable	No	Yes	No	No

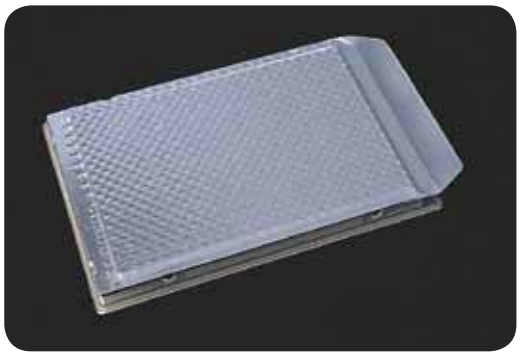
*Inset cut version 2928-0100 is 77.8 mm x 135.5/118.1 mm with/without end tabs.



TempPlate® PCR Foil

Pliable foil provides a strong seal without heat sealing devices. Good resistance to chemicals; blocks light during testing or storage. Excellent moisture barrier. Pierceable. Certified RNase, DNase, and nucleic acid free. Also available on a 100 meter roll (3" plastic core) for sealing up to 830 plates.

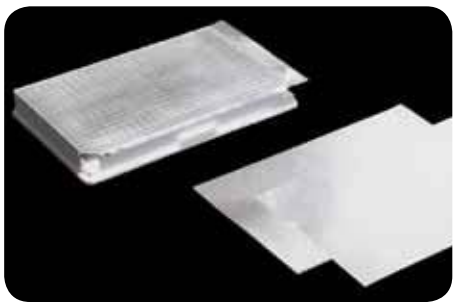
2923-0100	Non-sterile, 100/box	$80.50
2923-0110	Sterile, 50/box	$61.25
2973-8010	80 mm x 100 m roll	$402.50



Single Tab PCR Foil

Pliable foil has one non-perforated end tab that extends along the full length of the side. Good chemical resistance; blocks light during testing or storage. Pierceable. Certified RNase, DNase, and nucleic acid free.

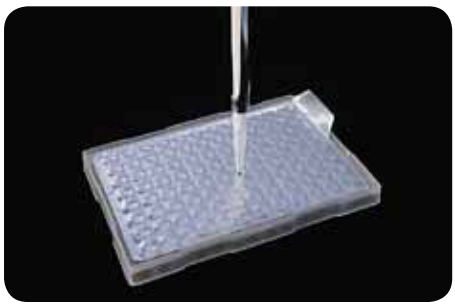
2938-4100	Non-sterile, 100 sheets/box.	$63.00



Cold Storage Foil

Thicker foil and adhesive layer provides the best performance for long-term storage at -80°C. Certified DNase, RNase, and nucleic acid free. Not recommended for PCR.

2932-0100	Non-sterile, 100/box	$85.50
2932-0110	Sterile, 50/box	$59.25



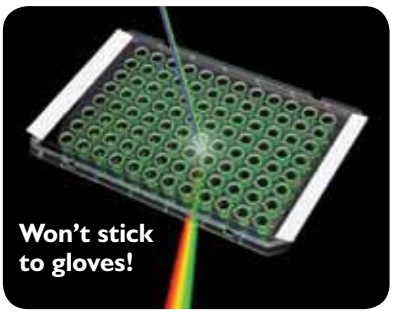
Inset Cut Single Tab PCR Foil

Pliable foil is cut smaller to fit plates with raised sides. One partial width non-perforated end tab. Good chemical resistance; blocks light during testing or storage. Pierceable. Sealing paddle 2928-7355 (page F16) is recommended. Certified RNase, DNase, and nucleic acid free.

2939-6100	Non-sterile, 100 sheets/box.	$47.25

Specifications for Assay, PCR, and Storage Films

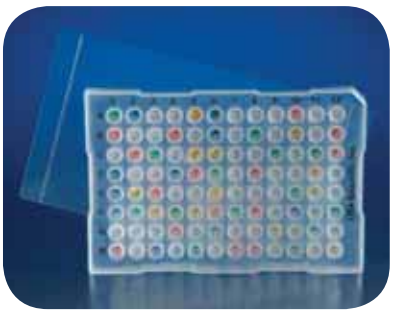
	TempPlate®	Single Tab, Traditional Cut	Cold Storage Foil	Single Tab, Inset Cut
Non-sterile	2923-0100	2938-4100	2932-0100	2939-6100
Sterile	2923-0110	--	2932-0110	--
Format	Standard	Standard	Standard	Inset Cut
End tab(s)	2	1, not perforated	1, not perforated	1, not perforated
Temperature range	-80°C to +120°C	-80°C to +120°C	-80°C to +120°C	-80°C to +120°C
Dimensions with end tab(s)	82.5 x 146.1 mm	82.5 x 137.3 mm	82.6 x 132.6 mm	77.8 x 127 mm
Length excluding tab(s)	125.4 mm	123.8 mm	123.1 mm	117.5 mm
Material; thickness	Aluminum; 36 µm	Aluminum; 38 µm	Aluminum; 50 µm	Aluminum; 38 µm
Adhesive; thickness	Acrylic; 28 µm	Acrylic; 38 µm	Acrylic; 50 µm	Acrylic; 38 µm
Pierceable	Yes	Yes	Yes	Yes



TempPlate® RT Select qPCR Film

Optically clear; strong silicone adhesive and no-curl formulation prevents edge effects. The encapsulated adhesive is only released with pressure. DMSO* resistant and certified RNase, DNase, and nucleic acid free. Includes one sealing paddle. Also available on a 65 meter roll (3" plastic core) for sealing up to 540 plates. Recommended for real-time PCR and crystallography.

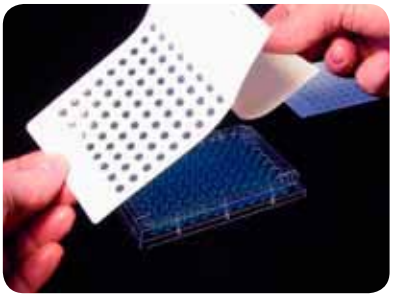
2921-7800	Non-sterile, 100 sheets/box	$172.00
2978-7965	79 mm x 65 m roll	$617.25



TempPlate® RT qPCR Film

Optically-clear; non-fluorescing adhesive and an ultra-smooth plastic liner minimize distortion for a better signal. Recommended for real-time PCR and crystallography. Certified RNase, DNase, and nucleic acid free. 100 sheets/box.

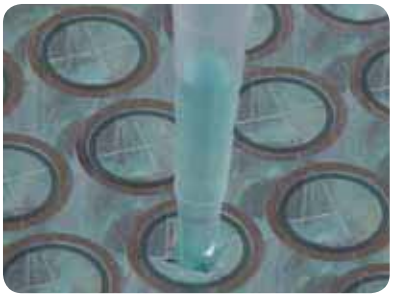
2978-2100	Non-sterile, 50 µm, standard cut	$125.00
2978-2700	Non-sterile, 50 µm, inset cut	$117.00



NAL-96

Eliminate adhesive on probes and/or sample exposure to adhesives. Double layer polyethylene/polypropylene film features an adhesive-free area over each well. Great for autosamplers. Certified RNase, DNase, and nucleic acid free.

2923-5000	Non-sterile, 50 sheets/box	$107.50



X-Pierce™

Pre-cut "X" allows easy piercing. After sampling, pierced flaps return to their original position for temporary sample protection. Certified RNase, DNase, and nucleic acid free.

2997-0100	Non-sterile, 100 sheets/box	$92.25
2997-0110	Sterile, 50 sheets/box	$62.75

Specifications for Special Application Films

	TempPlate® RT Select	TempPlate® RT	TempPlate® RT	NAL-96 Film	X-Pierce™ Film
Non-sterile	2921-7800	2978-2100**	2978-2700	2923-5000	2997-0100
Sterile	--	--	--	2923-5010	2997-0110
Format	Inset cut	Standard	Inset cut	Standard	Standard
End tabs	2	2	2	2	2
Temperature range	-70°C to +100°C	-40°C to +120°C	-40°C to +120°C	-40°C to +90°C	-40°C to +90°C
Dimensions w/end tabs	78.6 x 139.7 mm	79.4 x 142.9 mm	77.8 x 130.8 mm	79.4 x 142.9 mm	79.4 x 145.5 mm
Length excluding tabs	113 mm	121.9 mm	118.1 mm	122 mm	124 mm
Material; thickness	Polyolefin; 50 µm	Polyester; 50 µm	Polyester; 50 µm	PE/PP; 70 µm	Vinyl; 89 µm
Adhesive; thickness	Silicone; 50 µm	Acrylic; 25 µm	Acrylic; 25 µm	Acrylic; 26 µm	Acrylic; 18 µm
Pierceable	No	No	No	Yes	Yes

*Resistance to DMSO is concentration dependent. If in doubt, please request a sample to test with your application.
**Inset cut version 2978-2700 is 77.8 x 130.8/118.1 mm with/without end tabs.

Breathe-Easy® Film

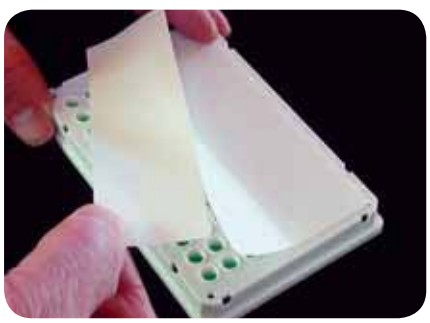
Thin polyurethane film is permeable to O_2, CO_2, and water vapors. Non-cytotoxic, FDA approved acrylic adhesive. UV transparent down to 300 nm. A brayer or sealing paddle is required for proper sealing. Gamma sterilized.

9123-6100	Sterile, 100/box	$86.50

Microporous Film

Microporous rayon film allows air and gas exchange while minimizing well-to-well cross-contamination and evaporation. Non-cytotoxic film has a medical grade adhesive. Liner paper has 2 perforated end tabs. Also available on EasyApp rolls (page F11) and on a 100 meter roll (3″ plastic core) for sealing up to 830 plates.

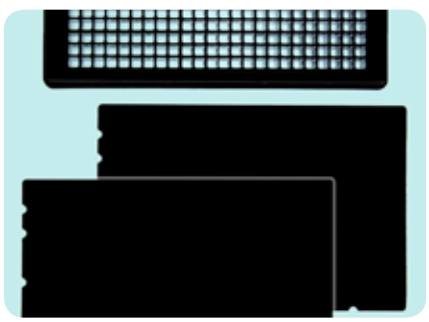
2920-1000	Non-sterile, 100/box	$74.50
2920-1010	Sterile, 50/box	$46.25
2972-8110	79 mm x 100 m roll	$456.25



Light Reflecting Film

White film may be applied to either the top or bottom of the plate to optimize reading results. The light-reflective properties maximize sensitivity of bioluminescence and chemiluminscence assays. May also be used as a backing matrix for microscopy of punchout samples from filter plates. Single slit backing. 50 sheets/box.

2998-6550	Non-sterile	$44.25



Light Absorbing Film

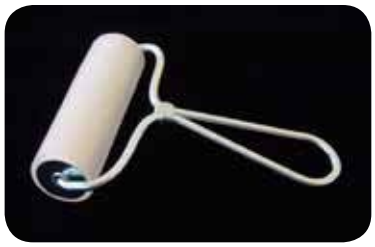
Black film reduces scatter and blocks light for more efficient assays and safer storage. Protects light sensitive samples. Works with 96-well, 384-well, and 1536-well plates. For top reading applications, apply the film to the bottom of clear well plates. For bottom reading, use the film as a top seal. Single slit backing. 50 sheets/box.

2925-0500	Non-sterile	$42.50

Specifications for Breathable and Light Management Films

	Breathe-Easy®	Microporous Film	Light Reflecting Film	Light Absorbing Film
Non-sterile	--	2920-1000	2998-6550	2925-0500
Sterile	9123-6100	2920-1010	--	--
Format	Standard	Standard	Inset cut	Inset cut
End tab(s)	2	2 (liner only)	None	None
Temperature range	-80°C to +100°C	-20°C to +80°C	-40°C to +80°C	-40°C to +80°C
Dimensions with end tab(s)	82.6 x 152.4 mm	82.6 x 142.9 mm	76.2 x 116 mm	76.2 x 114.3 mm
Length excluding tab(s)	127 mm	--	--	--
Material; thickness	Polyurethane; 25 µm	Rayon; 140 µm	Vinyl; 203 µm	Vinyl; 203 µm
Adhesive; thickness	Acrylic	Medical grade	Acrylic; 37 µm	Acrylic; 37 µm
Pierceable	No	Yes	No	No

ACCESSORIES FOR MULTIPLE WELL PLATES



Brayer

Soft 4″ rubber roller seals films or foils tightly.

9127-2940 $20.75

Sealing Paddle

Polyethylene paddle helps apply firm, even pressure to films and foils. Works with standard or raised side plates. 5/pack.

2928-7355 $7.75

Sidewall Cryo-Tags®

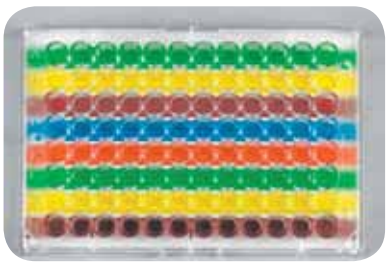
Freezer-safe labels for plates. 1.5″ L x 0.25″ W. For temperatures from -196°C to 150°C. See pages D3-D8 for more information and additional plate labels.

9188-7433 White, 3120/box $60.00
9188-7408 Asst. colors, 3120/box $60.00

Numbered Well Orienter

Identify individual wells quickly. Thin, waterproof plastic card slips under a standard microplate. Bold alpha-numeric print identifies each well for easy reference. Measures 4″ L x 3″ W. Four cards per pack.

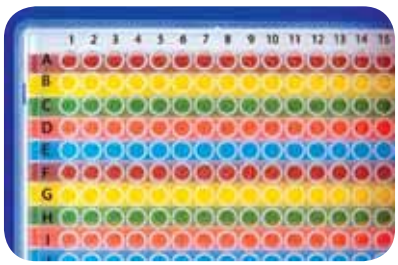
9193-5500 96-well card $25.00
9193-5548 48-well card $25.00
9193-5524 24-well card $25.00



96-Well Color Orienters

Bright stripes distinguish adjacent columns or rows of wells. Two waterproof plastic cards per pack.

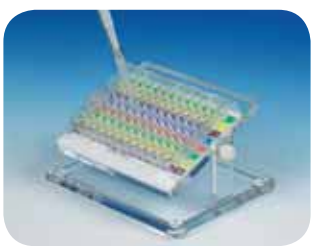
9193-4596 Horizontal stripes $30.00
9193-8596 Vertical stripes $30.00



384-Well Color Orienters

Bright stripes distinguish adjacent columns or rows of wells. Two waterproof plastic cards per pack.

9193-4384 Horizontal stripes $30.00
9193-8384 Vertical stripes $30.00



Adjustable Plate Stand

Clear acrylic stand has a tilting platform that adjusts to a 45° maximum angle. Compact design is only 6″ L x 4.5″ W x 2.5″ H.

9197-5100 $70.00

Plate Stand

White acrylic stand supports one microplate at a comfortable 30° viewing angle. Rubber feet and a neoprene backing prevent the stand and plate from slipping during use.

9197-7800 $35.00

Multiple-Well Pad

Alpha-numeric writing pad represents the wells on a 96-well plate. Mild repositionable adhesive backing for easy insertion into your lab notebook. Measures 7″ L x 5″ W; 50 sheets.

9197-6700 $13.00

G

CELL CULTURE

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CytoOne®

FLASKS **DISHES & PLATES**

CELL CULTURE

CHAMBER SLIDES

SCRAPERS AND LIFTERS

FETAL BOVINE SERUM

PETRI DISHES

SEROLOGICAL PIPETS

GAS PERMEABLE FILM

USA SCIENTIFIC®

CytoOne®

CELL CULTURE PERFORMANCE WARE™

Your cells deserve the best. Consistent surfaces with certified testing. Optically clear, premium grade polystyrene. ISO 9001 production and manufacturing with rigorous quality control.

You also need convenience. CytoOne® cell culture products incorporate features that make handing easier, provide more protection for your cells, and reduce the risks of cross-contamination.

T25, T75, and T150 flasks have inner trays for easy handling.

- Grip tabs on large dishes
- Beveled edges on small dishes
- Ridged grip areas on plate bases
- Plates with Protection Perimeter™ 360º chimney wells
- Easy open, resealable flask sleeves
- Gentle silicone scraper heads with pivot option

CytoOne is available for adherent and suspension cells grown in dishes, flasks, or plates. Outfit your cells with CytoOne cell culture performance ware for optimum growth and handling.

CytoOne Testing and Quality Assurance

All CytoOne flasks, dishes, and plates are gamma sterilized and certified to be free of detectable DNase, RNase, DNA, and pyrogens. Culture tests are performed to assure proper cell attachment and growth. Every flask is pressure tested to assure that there are no leaks. Flasks, plates, and dishes are tested for wettability and flatness and visually inspected to eliminate defects and scratches.

CytoOne Dishes

Sturdy flat bases resist bowing and warping. All sizes have optimized lid/base height ratios that allow easy pickup and handling without accidental lid displacement. 35 and 60 mm dish bases also have beveled outer edges for a more secure grip, and the large 150 mm dish lids have ergonomically placed grip tabs for safe handling with less strain.

- Optically clear for distortion-free microscopy
- Small sleeve quantities minimize contamination risks
- Vented stacking rings reduce condensation between dishes
- Vented, untreated lids improve gas exchange and decrease condensation within the dishes
- Easy to open sleeves
- Certified DNase, RNase, DNA, and pyrogen free; non-cytotoxic
- Gamma sterilized

Tissue Culture Treated Dishes

CC7682-3340	35 x 10 mm, 10/sleeve, 300/case	$156.25
CC7682-3359	60 x 15 mm, 10/sleeve, 300/case	$182.25
CC7682-3394	100 x 20 mm, 10/sleeve, 300/case	$380.00
CC7682-3614	150 x 20 mm, 5/sleeve, 60/case	$156.25

Non-Treated Dishes

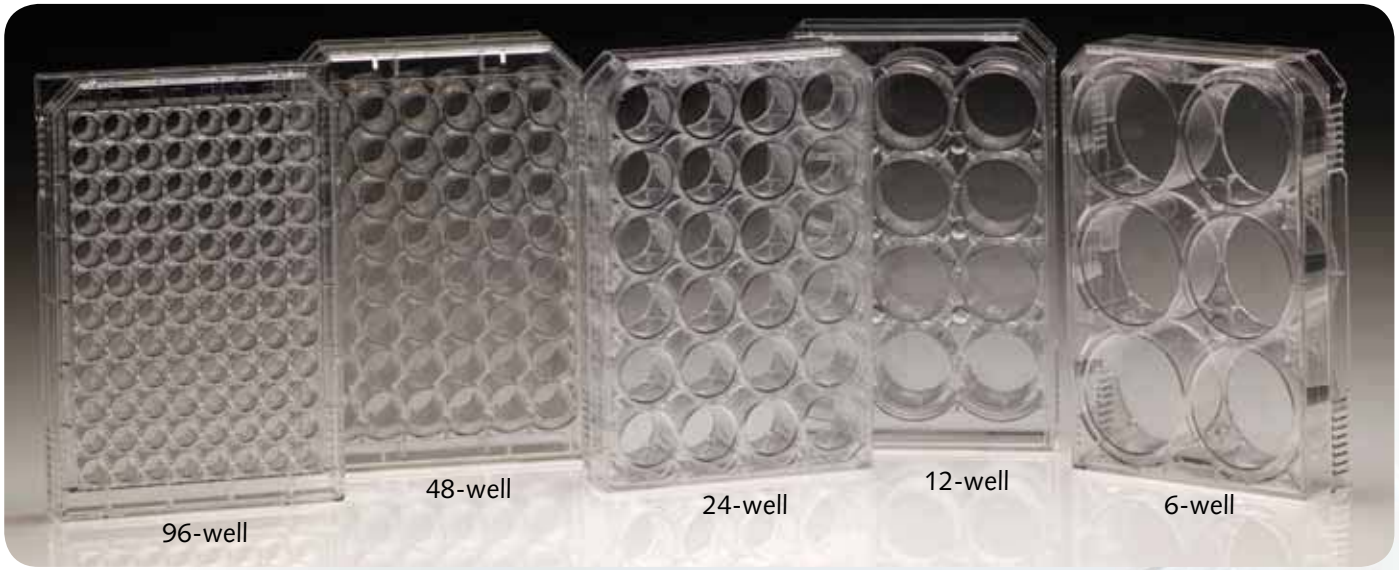
CC7672-3340	35 x 10 mm, 10/sleeve, 300/case	$130.25
CC7672-3359	60 x 15 mm, 10/sleeve, 300/case	$156.00
CC7672-3394	100 x 20 mm, 10/sleeve, 300/case	$354.00
CC7672-3614	150 x 20 mm, 5/sleeve, 60/case	$130.25

Specifications for CytoOne® Dishes

OD x HEIGHT, MM	GROWTH AREA, CM^2	ID, CM	WORKING VOLUME, ML
35 x 10	9.6	3.5	2
60 x 15	21	5.2	5
100 x 20	55	8.5	10
150 x 20	149	13.8	30

CytoOne®

CELL CULTURE PERFORMANCE WARE™

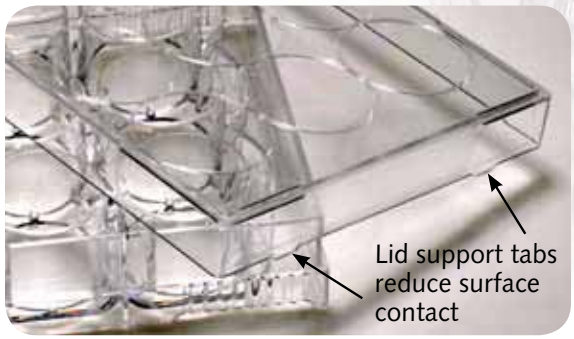


Multiple Well Plates

Designed for optimum growth and secure handling, CytoOne® plates are made from premium grade, virgin polystyrene and offer crystal-clear surfaces for distortion-free microscopy. Non-reversible lids with condensation rings minimize contamination and are vented for improved gas exchange. Support tabs reduce surface contact when lids are set aside or propped open.

CytoOne plates have molded alphanumerics for well identification, frosted writing surfaces, and complete 360° Protection Perimeter™ chimney wells to minimize edge effects and prevent cross contamination. (384-well plates have raised well rims.) Clear plates have gripping areas for safer handling. All plates are certified DNase, RNase, DNA, and pyrogen free and are gamma sterilized. Individually wrapped and lot traceable.

- **Optically clear for distortion free microscopy**
- **Tight manufacturing tolerances maximize flatness**
- **Ridged bases secure your grip**
- **360° Protection Perimeter™ wells prevent cross contamination**
- **Perimeter and inter-well spaces accept media for reduced edge effects**
- **Vented skirt allows air circulation and reduces condensation between stacked plates**
- **Certified DNase, RNase, DNA, and pyrogen free; non-cytotoxic**
- **Gamma sterilized**



Specifications for CytoOne® Multiple Well Plates

WELLS	GROWTH AREA PER WELL, CM²	WORKING VOLUME, ML	WELL DIAMETER, CM
6	9.4	2	3.46
12	3.8	1.5	2.21
24	1.9	1.0	1.55
48	0.76	0.5	0.98
96	0.32	0.2	0.64
384	0.10	0.06	0.32

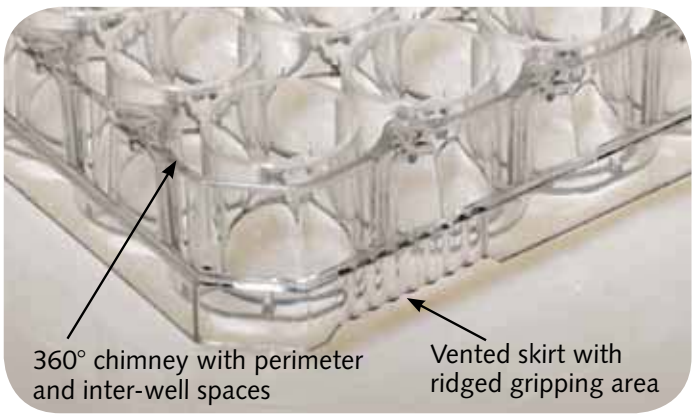
CytoOne®

CELL CULTURE PERFORMANCE WARE™

Multiple Well Plates

Your cells deserve the best. Consistent surfaces with certified testing. Optically clear, premium grade polystyrene. ISO 9001 production and manufacturing with rigorous quality control.

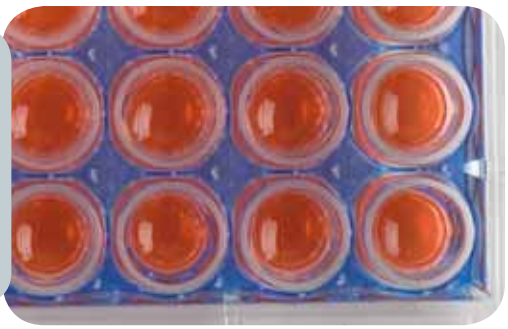
All CytoOne plates are lot traceable and certified DNase, RNase, DNA, and pyrogen free. Non-cytotoxic and gamma sterilized.



TC Treated Multiple Well Plates
Flat-bottom. Individually wrapped with lids. 50/case.

CC7682-7506	6-well, clear	$120.00
CC7682-7512	12-well, clear	$130.25
CC7682-7524	24-well, clear	$151.00
CC7682-7548	48-well, clear	$172.00
CC7682-7596	96-well, clear	$172.00
CC7682-7968	96-well, white	$317.50
CC7682-7969	96-well, black	$317.50

Protection Perimeter™ inter-well spaces on 96-well plate demonstrated with blue solution.



Having problems with cells clumping around the outer edges of a well? CytoOne plates accept fluid in their inter-well spaces for reduced edge effects. See more information online at usascientific.com/cytoone.

Non-Treated Multiple Well Plates
Flat-bottom. Individually wrapped with lids. 50/case.

CC7672-7506	6-well, clear	$120.00
CC7672-7524	24-well, clear	$130.25
CC7672-7548	48-well, clear	$151.00
CC7672-7596	96-well, clear	$161.50

CC7682-7969

CC7682-7968

TC Treated 384-Well Plates
Tissue culture treated for optimum cell attachment and growth. Flat-bottom plates have gripping areas for easy handling; molded alphanumerics identify wells. Raised well rims minimize cross-contamination. Manufactured from premium grade, virgin polystyrene. Individually wrapped with vented lids. 50/case.

CC7682-7384	384-well, clear	$364.25
CC7682-7389	384-well, white	$364.25

CC7682-7384

CC7682-7389

Prices and products subject to change without notice. See www.usascientific.com for current information.

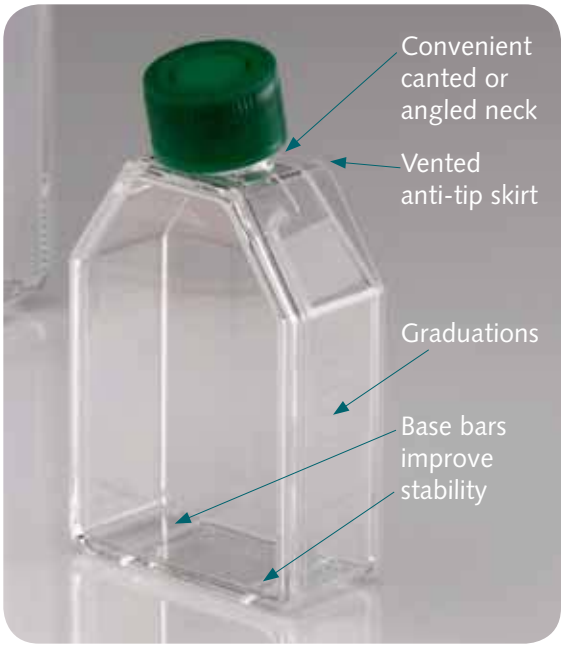
CytoOne®

Flasks with Two-Position Cap

Choose tissue culture treated for optimum cell attachment and growth or non-treated for hybridoma and suspension cultures. Two-position plug seal cap lets you choose secure manual venting or an airtight seal. Convenient molded volume graduations and frosted writing surfaces. T25, T75, and T150 flasks have traceable lot numbers etched into the base. All flasks are 100% pressure tested for leak-free assurance.

Two-position cap offers visual and tactile feedback of vented or closed position.

Easy-open, resealable zip top sleeve



- Easy open, resealable zip top bags protect unused flasks
- Anti-tip skirts and base bars improve stability
- Wide, anti-drip necks provide easy access while minimizing contamination
- Optical clarity provides distortion-free microscopy
- Vented stacking rims minimize condensation between flasks
- Certified DNase, RNase, DNA, and pyrogen free
- Gamma sterilized; non-cytotoxic

TC Treated Flasks, Green Caps

CC7682-4325	T25, 10/sleeve, 300/case	$364.25
CC7682-4175	T75, 5/sleeve, 100/case	$260.25
CC7682-4415	T150, 5/sleeve, 40/case	$192.75
CC7682-4225	T225, 5/sleeve, 25/case	$172.00

Non-Treated Flasks, White Caps

CC7672-4325	T25, 10/sleeve, 300/case	$380.00
CC7672-4175	T75, 5/sleeve, 100/case	$203.00
CC7672-4225	T225, 5/sleeve, 25/case	$156.25

Specifications For CytoOne® Flasks

FLASK TYPE	GROWTH AREA, CM^2	NECK	WORKING VOLUME, ML	MAXIMUM VOLUME, ML
T25	25	Canted	5	70
T75	75	Canted	20	279
T150	150	Canted	30	591
T225	225	Angled	60	1006

CytoOne Testing and Quality Assurance

CytoOne flasks, dishes, and plates are certified to be free of detectable DNase, RNase, DNA, and pyrogens. Culture tests are performed to assure proper cell attachment and growth. Flasks, plates, and dishes are tested for wettability and flatness and visually inspected to eliminate defects and scratches.

CytoOne®

TC Flasks with Vented Filter Cap

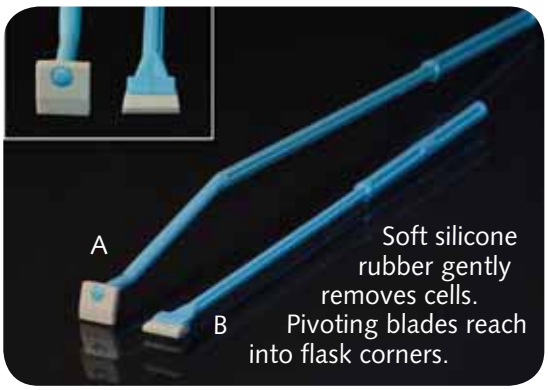
Tissue culture treated for optimum cell attachment and growth. Vented filter caps have a 0.2 µm hydrophobic membrane to exclude bacteria and fungal contaminates. Convenient molded volume graduations and frosted writing surfaces. T25, T75, and T150 flasks have traceable lot numbers etched into the base. All flasks are 100% pressure tested for leak-free assurance. See page G4 for specifications.

TC Treated Flasks with Green Vented Filter Caps

CC7682-4825	T25, 10/sleeve, 300/case	$494.25
CC7682-4875	T75, 5/sleeve, 100/case	$296.75
CC7682-4815	T150, 5/sleeve, 40/case	$234.25
CC7682-4822	T225, 5/sleeve, 25/case	$203.00

CytoOne® Cell Scrapers

Gentle silicone rubber blades are available in three sizes for cell harvesting in a variety of dishes, flasks, or plates. Pivoting blade scrapers reach into corners easily and have a flexible ABS handle for better contact inside flasks. Fixed blade scraper lifts cells from 6-, 12-, or 24-well plates or dishes. Individually wrapped with 25/inner pack, 100/case. Gamma sterilized.



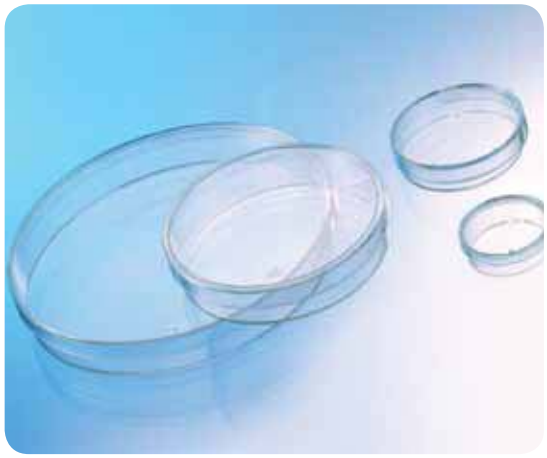
CC7600-0250	10 mm pivoting blade, 25 cm handle	$172.00
CC7600-0320	12 mm pivoting blade, 32 cm handle (A)	$172.00
CC7600-0220	11 mm fixed blade, 22 cm handle (B)	$172.00

CytoOne® Cell Counting Chamber

Eliminate the concerns of cleaning, drying, and handling fragile glass counting slides. The CytoOne cell counting chamber is designed for one-time use to guarantee cleanliness and save time. Chambers feature precisely spaced lines in a 1 mm x 1 mm grid with a 100 µm depth. Each slide has two chambers with integrated coverslips for error-free filling. Non-sterile.

CC7600-0100	60/box (120 counts)	$442.25
CC7600-0102	30/box (60 counts)	$221.25

Prices and products subject to change without notice. See www.usascientific.com for current information.



CELLSTAR® Dishes

Surface treated for optimum cell attachment and proliferation. Distortion-free optical surfaces aid microscopic examination. Stacking rims aid storage and handling; uniform venting allows controlled gas exchange. Radiation sterilized polystyrene. Free of endotoxins, RNases, DNases, and human DNA. Greiner Bio-One®.

CATALOG NO.	DIMENSIONS	GROWTH AREA	SLEEVE/ CASE QTY	PRICE
5662-7160	35 x 10 mm	8.5 cm^2	10/740	$259.25
5662-8160	60 x 15 mm	21 cm^2	10/600	$200.00
5666-4160	100 x 20 mm	58 cm^2	15/360	$247.00
5663-9160	145 x 20 mm	141 cm^2	5/120	$197.50

CELLSTAR® Multiple Well TC Plates

Multiple well plates are TC treated for improved cell adhesion. Single position lids (included) prevent cross-contamination and enable optimal gas exchange. Individually wrapped in easy to open packaging. 100 plates per case. RNase free, DNase free, human DNA free, and non-pyrogenic. Radiation sterilized polystyrene. Greiner Bio-One.

CATALOG NO.	WELLS	WORKING VOL/WELL	GROWTH AREA/WELL	PRICE
5665-7160	6	2-5 ml	9.6 cm^2	$130.75
5666-5180	12	2-4 ml	3.9 cm^2	$165.50
5666-2160	24	0.5-1.5 ml	1.9 cm^2	$136.75
5667-7180	48	0.5-1 ml	1.0 cm^2	$165.50

CELLSTAR® Clear 96-Well TC Plates

Tissue culture treated plates have industry standard dimensions for trouble-free performance with automated systems. Plates with half area wells require smaller sample volumes while having the same footprint as standard plates. RNase free, DNase free, human DNA free, and non-pyrogenic. Radiation sterilized polystyrene. Greiner Bio-One.

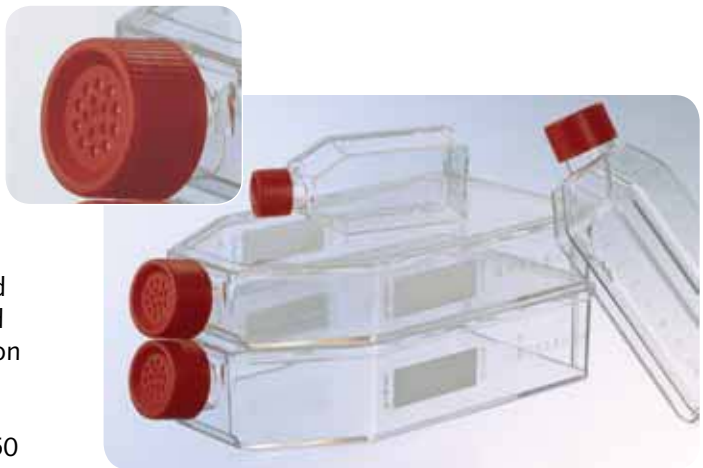
CATALOG NO.	WELL SHAPE	WORKING VOL/WELL	GROWTH AREA/WELL	SLEEVE/ CASE QTY	PRICE
5665-5180	Flat bottom	25-340 µl	34 mm^2	1/100	$224.75
5665-0180	Round bottom	40-280 µl	35 mm^2	1/100	$278.75
5665-1180	Conical bottom	40-200 µl	28 mm^2	1/100	$257.75
5667-5180	Half Area, flat	15-175 µl	15 mm^2	8/32	$113.50

CELLSTAR® TC Flasks

Surface treatment ensures excellent cell adhesion and high yields. Wide, angled neck aids pipetting or cell scraping. Flasks are stackable and have graduations. Optically flat growth surface aids microscopic examination. RNase free, DNase free, human DNA free, and non-pyrogenic. All flasks are labeled with a best-before date and lot number. Radiation sterilized polystyrene. Greiner Bio-One®.

5669-0160	50 ml, 25 cm^2, 10/sleeve, 200/case	$171.25
5665-8170	250 ml, 75 cm^2, 5/sleeve, 120/case	$183.50
5666-0160	550 ml, 182 cm^2, 5/sleeve, 50/case	$146.75
5666-1160	650 ml, 182 cm^2, 4/sleeve, 40/case	$122.25

CELLSTAR® TC Filter Cap Flasks



Hydrophobic capillary pore membrane (0.2 μm) allows gas exchange without risking contamination. Ideal for infectious materials. Wide, canted neck aids pipetting or cell scraping. RNase free, DNase free, human DNA free, and non-pyrogenic. All flasks are stackable with graduations and are labeled with a best-before date and lot number. Radiation sterilized polystyrene. Greiner Bio-One.

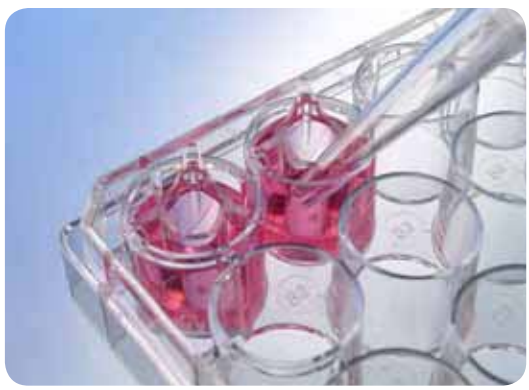
5669-0175	50 ml, 25 cm^2, 10/sleeve, 200/case	$293.50
5665-8175	250 ml, 75 cm^2, 5/sleeve, 120/case	$278.75
5666-0175	550 ml, 182 cm^2, 5/sleeve, 50/case	$201.75
5666-1175	650 ml, 182 cm^2, 4/sleeve, 40/case	$166.50

Cell Scrapers

Pivot head cell scrapers are sterile and individually wrapped. Both have a scraper width of 16 mm. Case of 100. Greiner Bio-One.

5654-1070	28 cm length	$230.00
5654-1080	40 cm length	$266.50

ThinCert™ Tissue Culture Inserts



Permeable tissue culture membranes offer improved cell adhesion and low protein binding. Use for co-cultivation, cell migration, microscopy, staining, and transport process applications. Self-positioning hangers eliminate capillary effects and maximize access to the well by positioning the insert slightly off-center. Sterile and individually wrapped. Greiner Bio-One. See www.usascientific.com for information on pore size, density, and plate format.

Nunclon® Dishes

Nunclon Δ surface treated dishes have optically clear, distortion-free flat surfaces. Round dishes are vented for controlled gas exchange. Radiation sterilized polystyrene.

4615-3066	35 x 10 mm, 8.8 cm^2, 10/sleeve, 500/case	$325.00
4615-0288	60 x 15 mm, 21.5 cm^2, 10/sleeve, 400/case	$296.00
4617-2958	100 x 20 mm, 56.7 cm^2, 10/sleeve, 480/case	$685.00
4616-8381	150 x 20 mm, 145 cm^2, 10/sleeve, 80/case	$257.00
4616-6508	245 x 245 x 25 mm, 4/sleeve, 16/case	$349.00

Nunclon® 96-Well TC Plates

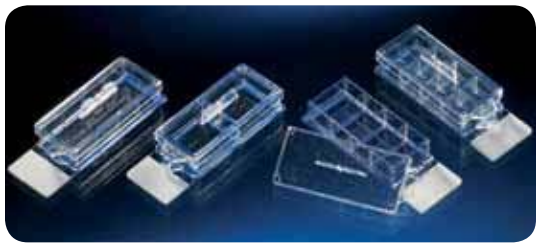
96-well plates are Nunclon Δ surface treated for optimum cell attachment and growth. High flange design aids automated handling. Individually wrapped with lid. Radiation sterilized polystyrene.

4616-7008	Flat bottom, 400 µl total vol/well, 50/case	$243.00
4616-3320	Round bottom, 300 µl total vol/well, 50/case	$241.00

Nunclon® Filter Cap Flasks

Hydrophobic filter ensures consistant gas exchange without risking cross contamination in communal incubators. Polystyrene, sterile.

4613-6196	25 cm^2, angled neck, 20/sleeve, 160/case	$322.00
4617-8905	80 cm^2, straight neck, 5/sleeve, 50/case	$169.00
4617-8883	175 cm^2, straight neck, 4/sleeve, 32/case	$209.00



Lab-Tek® II Chamber Slide™ System

Removable polystyrene media chamber with cover allows microscopy of in situ cell culture. Non-fluorescent glass microscope slide is treated for cell attachment growth. Sterile. 16/sleeve, 96/case.

4615-4453	1 well chamber, 8.6 cm^2 per well	$689.00
4615-4461	2 well chamber, 4.0 cm^2 per well	$727.00
4615-4526	4 well chamber, 1.7 cm^2 per well	$732.00
4615-4534	8 well chamber, 0.7 cm^2 per well	$754.00

Fetal Bovine Serum

BioWest Fetal Bovine Serum is triple 0.1 μm filtered, USDA and EC approved, and fully qualified and traceable to the source. Biochemical profiles are documented for each lot. Large lot sizes are available. Need to evaluate a sample? Call 800-522-8477.

Embryonic stem (ES) cell screened FBS is tested by experienced ES cell culturists for plating efficiency, colony morphology, and toxicity tests.

500 ml Bottles
Ten convenient, pre-printed labels included with each 500 ml bottle! Temperature resistant labels with lot number and expiration date are ready to apply for quick, error-free aliquots.

9871-5200	Premium Select	$324.50
9871-5244	Premium Select, heat inactivated	$346.50
9887-5200	US origin	$401.50
9887-5244	US origin, heat inactivated	$423.50
9837-5200	Embryonic stem cell screened	$401.50
9837-5244	Embryonic stem cell screened, heat inactivated	$423.50

50 ml Bottles
No need to aliquot or thaw large bottles! One step 50 ml bottles reduce the need for multiple thaw/freeze/thaw cycles. Ten 50 ml bottles per unit.

- Save time
- Avoid possible contamination
- Enhance reproducibility and consistency

9871-5250	Premium Select	$434.50
9871-5254	Premium Select, heat inactivated	$456.50

Serum prices are subject to change according to market conditions.

FBS Testing and Quality Assurance

Sterility: Performance tests must show no bacterial, fungal, or mycoplasma growth over a period of up to 21 days.
Mycoplasma: Mycoplasma test agar plates are inoculated with mycoplasma and subcultured with 3T3 cells. The cells are incubated, stained, and visually examined.
Viruses: Cultures are tested for Bovine Viral Diarrhea (BVD), infectious Bovine Rhinotracheitis (IBR) and Parainfluenza Type 3 (PI3). Virus inoculated cultures are tested in parallel. Cultures are examined for cytopathic indications and by fluorescent antibody staining, inclusion body staining, and hemadsorption. Sera must pass ELISA testing.
Endotoxin: Qualitative chromokinetic and turbidimetric tests standardized by USP Reference Endotoxin Standard LAL method.
BSE: Prion tests are performed by a registered veterinary lab when sera originate from a region which has had BSE. Only batches shown to be free of BSE are used.
Cell Culture: Performance is assessed with 10% serum in cell culture media. Cultures are microscopically examined for morphological abnormalities that could indicate toxic components. Cell growth, plating efficiency, and cloning are tested with Hela L929, SP2/AG8, and MRC-5 cell lines.

Autofil™ Laboratory Filtration System

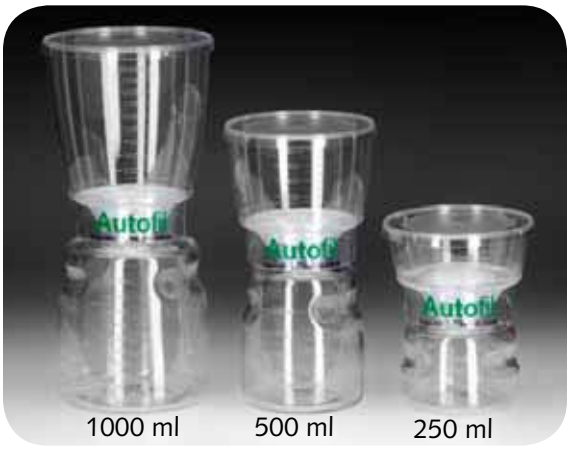
Streamline the vacuum filtration and sterilization of media, buffers, and other solutions. Created to solve common concerns, the Autofil system introduces innovative design features that simplify handling, shorten filtration time, and reduce costly accidental spills.

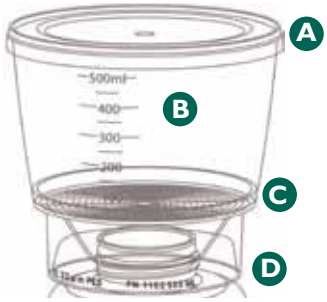
Autofil features a wide funnel and threading unit seamlessly molded as one unit. One piece construction eliminates the potential loss of vacuum that may occur in other brands when sonically welded parts leak at joints and seams.

Autofil asymmetric PES membrane filters are extremely low protein binding and surfactant free. Large surface area and optimum performance means reduced filtration times and improved productivity. The funnel and bottle are made from low extractable polystyrene tested to meet USP Class VI and FDA requirements. Non-cytotoxic and pyrogen free.

The Autofil filter and bottle assembly has a wide base and low center of gravity that helps reduce tip-overs. The receiver bottle is ergonomically shaped with narrow, sloping shoulders and molded finger grips. The unique SECUREgrasp™ cap has a large surface area and prominent no-slip edges for a safer grip and easier transport. (The bottle top filter funnel may also be purchased separately for use with standard bottles with a 45 mm neck.)

Autofil is available with a 0.45 µm (clarification grade), 0.22 µm (sterilization grade), or 0.1 µm (mycoplasma filtering grade) filter. Options are available in 15, 50, 250, 500, or 1000 ml sizes.





(A) Dust cap with writing surface
(B) Large raised volume graduations
(C) Low protein binding PES filter with large surface area
(D) Skirted funnel base surrounds the Quick-Connect pedestal or cradle ring for secure hands-free filtration

Quick-Connect™ weighted pedestal base (left, with 15 ml assembly) and cradle ring for use with laboratory stands (above).

While Autofil systems are compatible with common laboratory vacuum setups, additional benefits are obtained when either the Quick-Connect™ pedestal base or cradle ring are utilized. Simply attach your vacuum line to the Quick-Connect™ hardware. Both the pedestal base and cradle incorporate a conveniently located adjustable vacuum control. When you are ready to filter, set the Autofil unit onto the base or cradle and open the vacuum control. Your filter is now fully supported for secure, hands-free operation and will not tilt or spill.

Autofil Full Assembly, Sterile

Includes bottle top filter funnel with dust cap, receiving bottle, bottle cap, and tubing adapter. Individually wrapped; sterile.

6031-1167	0.1 µm filter, 250 ml, 12/case	$110.00
6031-1168	0.1 µm filter, 500 ml, 12/case	$140.00
6031-1169	0.1 µm filter, 1000 ml, 12/case	$178.00
6032-1411	0.22 µm filter, 15 ml, 24/case	$161.00
6032-1402	0.22 µm filter, 50 ml, 24/case	$161.00
6032-1101	0.22 µm filter, 250 ml, 12/case	$81.00
6032-1102	0.22 µm filter, 500 ml, 12/case	$119.00
6032-1103	0.22 µm filter, 1000 ml, 12/case	$154.00
6034-1412	0.45 µm filter, 15 ml, 24/case	$161.00
6034-1403	0.45 µm filter, 50 ml, 24/case	$161.00
6034-1141	0.45 µm filter, 250 ml, 12/case	$79.00
6034-1142	0.45 µm filter, 500 ml, 12/case	$117.00
6034-1143	0.45 µm filter, 1000 ml, 12/case	$152.00

Autofil Funnel Only, Sterile

Includes bottle top filter funnel with dust cap and tubing adapter. Individually wrapped; sterile.

6062-1151	0.22 µm filter, 250 ml, 24/case	$134.00
6062-1152	0.22 µm filter, 500 ml, 24/case	$157.00
6062-1153	0.22 µm filter, 1000 ml, 24/case	$252.00
6064-1161	0.45 µm filter, 250 ml, 24/case	$134.00
6064-1162	0.45 µm filter, 500 ml, 24/case	$157.00
6064-1163	0.45 µm filter, 1000 ml, 24/case	$252.00

Quick-Connect Accessories

6000-1116	Pedestal stand, powder-coated aluminum	$399.00
6000-1122	Cradle ring, stainless steel	$159.00

Cell Culture and Storage Bottles

Autofil™

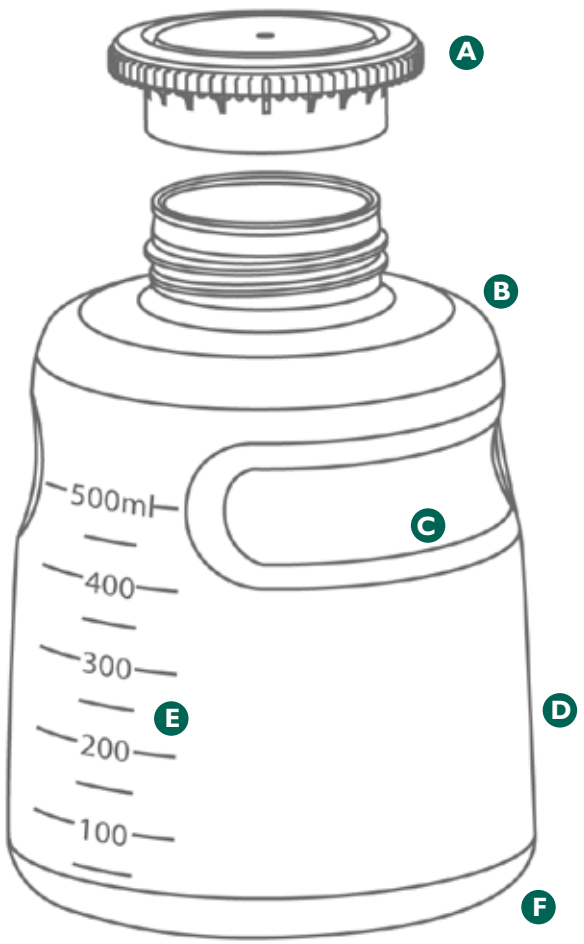
Autofil laboratory bottles combine innovative design with premium materials and manufacturing. The ergonomic shape features rounded, sloped shoulders with generous finger holds for easier transport. The unique SECUREgrasp™ cap offers prominent no-slip edges for a safer grip and has a large flat surface for convenient labeling. The wide base aids stability and helps create a low center of gravity.

Available in 250 ml, 500 ml, or 1000 ml sizes, each bottle has additional head space that allows dilution of up to 15%. Large raised graduations on both the front and back assist in volume estimations. Autofil bottles are available sterile or non-sterile in three low extractable plastics. All components are tested to meet USP Class VI and FDA requirements and are non-cytotoxic. Sterile bottles are pyrogen free.

Polystyrene (PS) is recommended for most cell culture aqueous solutions and is stable to 80° C. PS is also suitable for weak acids, bases, or dilute alcohol. It is not autoclavable.

PETG works well for common laboratory solutions. It has good cold resistance but cannot be heated or autoclaved. It is appropriate for weak acids and alcohol.

Polycarbonate (PC) can withstand up to three autoclave cycles and offers good alcohol resistance. PC is stable to 135° C and suitable for weak acids, bases, or alcohols.



(A) SECUREgrasp cap with flat writing surface and no-slip edges
(B) Curved, sloping contour with additional space for up to 15% dilutions
(C) Finger hold areas
(D) Choice of 3 crystal clear materials
(E) High visibility graduations
(F) Wide, stable base

Autofil Cell Culture Bottles
Includes bottle and SECUREgrasp cap. Two/sleeve.

6027-1171	250 ml PS bottle, sterile, 24/case	$77.00
6027-1172	500 ml PS bottle, sterile, 24/case	$108.00
6027-1173	1000 ml PS bottle, sterile, 24/case	$150.00
6028-1176	250 ml PETG bottle, sterile, 24/case	$99.00
6028-1177	500 ml PETG bottle, sterile, 24/case	$140.00
6028-1178	1000 ml PETG bottle, sterile, 24/case	$185.00
6022-1180	250 ml PC bottle, sterile, 24/case	$131.00
6022-1181	500 ml PC bottle, sterile, 24/case	$168.00
6022-1182	1000 ml PC bottle, sterile, 24/case	$224.00

Autofil Storage Bottles
Includes bottle and SECUREgrasp cap. Two/sleeve.

6027-4001	250 ml PS bottle, non-sterile, 24/case	$69.00
6027-5001	500 ml PS bottle, non-sterile, 24/case	$99.00
6027-6001	1000 ml PS bottle, non-sterile, 24/case	$142.00
6028-4001	250 ml PETG bottle, non-sterile, 24/case	$91.00
6028-5001	500 ml PETG bottle, non-sterile, 24/case	$132.00
6028-6001	1000 ml PETG bottle, non-sterile, 24/case	$177.00
6022-4001	250 ml PC bottle, non-sterile, 24/case	$123.00
6022-5001	500 ml PC bottle, non-sterile, 24/case	$160.00
6022-6001	1000 ml PC bottle, non-sterile, 24/case	$216.00

Chemical compatibility information is intended as a guide. We recommend that you test bottles for your specific application before use.

Serological Pipets

Polystyrene pipets are individually wrapped in paper-backed plastic wrappers. Volume indicators are large and easy to read; 5, 10, 25, and 50 ml pipets include ascending and descending numbers. Negative graduations provide extra capacity. Color coded by volume for quick identification.

High quality virgin polystyrene with polyester filter. Manufactured in an ISO 9001:9002 certified facility in the USA. Sterile, noncytotoxic, and certified RNase/DNase free and non-pyrogenic.

Individually Wrapped

1070-1210	1 ml, 100/sleeve, 1000/case	$183.75
1072-0510	2 ml, 100/sleeve, 500/case	$97.50
1075-0110	5 ml, 50/sleeve, 200/case	$55.25
1071-0810	10 ml, 50/sleeve, 200/case	$59.50
1072-5410	25 ml, 50/sleeve, 200/case	$131.50
1057-1010	50 ml, 25/sleeve, 100/case	$220.00

SEROLOGICAL PIPET SPECIFICATIONS

CATALOG NO.	DESCRIPTION	TOTAL VOLUME*	GRADUATIONS	COLOR CODE
1070-1210	1 ml	1.20 ml	0.10 ml	Yellow
1072-0510	2 ml	2.20 ml	0.01 ml	Green
1075-0110	5 ml	7.5 ml	0.10 ml	Blue
1071-0810	10 ml	13 ml	0.10 ml	Orange
1072-5410	25 ml	35 ml	0.20 ml	Red
1057-1010	50 ml	60 ml	0.50 ml	Purple

*Negative graduations account for additional capacity.

Greiner Bio-One Serological Pipets

Optical grade polystyrene pipets have fine graduation lines and offer maximum accuracy. Individually wrapped pipets have lot numbers on each wrapper. Sterile. Free of detectable DNase, RNase, human DNA and pyrogens.

Individually Wrapped

5660-4181	1 ml, 0.01 ml grad., yellow stripe, 1000/case	$191.50
5671-0180	2 ml, 0.01 ml grad., green stripe,1000/case	$198.25
5660-6180	5 ml, 0.1 ml grad., blue stripe, 200/case	$61.00
5660-7180	10 ml, 0.1 ml grad., orange stripe, 200/case	$66.75
5676-0180	25 ml, 0.2 ml grad., red stripe, 200/case	$135.75
5676-8180	50 ml, 0.5 ml grad., purple stripe, 100/case	$155.00
5671-0183	2 ml aspiration, no plug or grad., 1000/case	$227.00

Bulk Wrapped

5660-4107	1 ml, 0.01 ml grad., 25/sleeve, 1000/case	$182.75
5671-0107	2 ml, 0.01 ml grad., 25/sleeve,1000/case	$232.25
5660-6107	5 ml, 0.1 ml grad., 25/sleeve, 500/case	$163.25
5660-7107	10 ml, 0.1 ml grad., 25/sleeve, 500/case	$157.75
5676-0107	25 ml, 0.2 ml grad., 25/sleeve, 200/case	$130.00

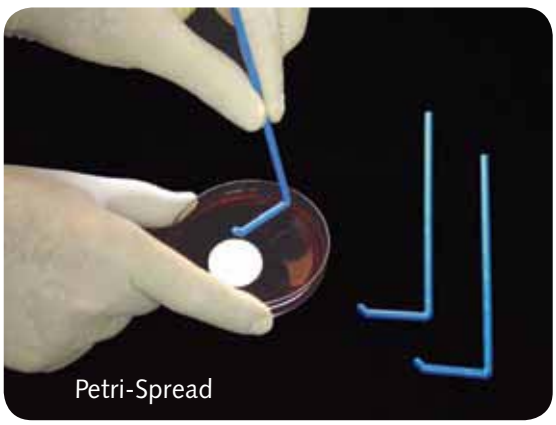
Petri Dishes

Biomedical grade crystal polystyrene is exceptionally clear. Consistent flat bottoms save expensive media and venting ribs prevent condensation build-up. Slippable dishes have side arrows and isobars and are designed for use with automatic filling and streaking equipment. The compact 8609-5010 100 x 13 mm dish can be used in place of 100 x 15 mm dishes to save space and media. All dishes are sterilized by gamma radiation.

Stackable Dishes		**1-9**	**10+**
8609-0160	60 x 15 mm, 20/sleeve, 500/case	$79.00	$72.00
8609-0010	100 x 15 mm, 20/sleeve, 500/case	$79.00	$72.00
Slippable Dishes			
8609-5010	100 x 13 mm, 30/sleeve, 600/case	$85.00	$77.50
8609-0215	150 x 15 mm, 10/sleeve, 100/case	$65.00	$59.25

Petri-Spread

Disposable L-shaped spreaders reduce the risk of cross-contamination. No flaming or autoclaving is required. The smooth spreading surface has a slight upward turn to prevent the spreader from scraping the agar. Non-breakable polystyrene also eliminates the safety hazard of broken glass spreaders. Sterilized.



2977-5500	Ten/sleeve, 500/case	$75.50
2977-5510	Individually wrapped, 500/case	$110.00

PetriSEAL™

Reduce the rate of gas exchange and prevent the entry of contaminants with PetriSEAL. This stretchable tape conforms to the shape of a petri dish or culture plate to block vapor loss under dry conditions. The seal remains flexible down to -30°C and can withstand continuous exposure from -40°C to +77°C (with intermittent exposure up to 100°C). Tests have shown that PetriSEAL leaves no adhesive residue even after two years. Waterproof and resistant to most chemicals. Each roll of ½" wide tape is 108' long.

9177-1080	Clear	$32.50
9177-1081	Blue	$32.50
9177-1084	Red	$32.50
9177-1086	Yellow	$32.50
9177-1088	White	$32.50

Petri Dish Holder

Acrylic holder keeps Petri dishes protected and organized on the bench or in storage. May also be mounted on the wall (includes screws). Measures 8" W x 4" D x 9" H (OD).

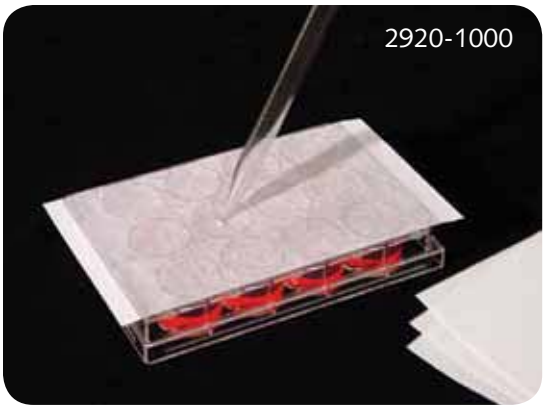
3002-8490		$65.00

Prices and products subject to change without notice. See www.usascientific.com for current information.

Breathe-Easy® Film

Thin polyurethane film is permeable to O_2, CO_2, and water vapors. Non-cytotoxic, FDA approved acrylic adhesive. UV transparent down to 300 nm. 25 µm thick; measures 82.6 x 152.4 mm including the two perforated end tabs. Temperature range: -80°C to +100°C. A brayer or sealing paddle is required for proper sealing. Gamma sterilized.

9123-6100	Sterile, 100/box	$86.50



Microporous Film

Microporous rayon film allows air and gas exchange while minimizing well-to-well cross-contamination, evaporation, and edge effects. Non-cytotoxic film has a medical grade adhesive. See page F15 for specifications. Also available on EasyApp rolls (page F11) and on a 100 meter roll (3" plastic core) for sealing up to 830 plates.

2920-1000	Non-sterile, 100/box	$74.50
2920-1010	Sterile, 50/box	$46.25

See pages F10-F15 for more sealing films and foils.

Breathable Tube Membranes

Micro-permeable membranes for microcentrifuge tubes allow gas exchange while keeping contents protected from airborne contaminants. Ideal for growing cells or concentrating samples. (Larger sizes are available for sealing flasks. Search "Peel-N-Seal" online at usascientific.com.)

Breathe-Easy® is transparent and has a water vapor transmission rate of 0.7 kg/m²/24 hours. Breathe-Easier™ is a white, non-woven rayon that allows accelerated growth by transmitting water vapor six times faster than Breathe-Easy. Sterile and free of detectable cytotoxins. 100/pack.

9126-1000	Breathe-Easy, -80°C to +100°C	$39.00
9126-2000	Breathe-Easier, -20°C to +80°C	$39.00

Sterile 1.5 ml Tubes

Seal-Rite 1.5 ml polypropylene tubes are available in sterile packs for your convenience. Each pack of 500 tubes contains 5 individually sealed, tamper-evident bags of 100. Sterile tubes are rated for centrifugation at 20,000 x g. Certified free of detectable RNase, DNase, DNA, and pyrogens.

		1-9	10+
1615-5510	Natural, 5 bags of 100 (500)	$23.75	$20.40

See the complete line of Seal-Rite tubes on pages B2-B7.

H

EQUIPMENT

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THERMAL-LOK™
eppendorf
ORBITAL-GENIE™ SHAKERS
ENVIRO-GENIE®
VORTEX-GENIE®
DISRUPTOR GENIE®
MICROPLATE GENIE®
MIXERS
DNA PLUS
AGAROSE GEL SYSTEMS
CENTRIFUGES

USA SCIENTIFIC®

2510-1102

2510-1101

2510-1104

Thermal-Lok™ Dry Bath

Dry heat bath provides precise and stable temperature control from 5ºC above ambient to 150ºC. The front panel is angled for easy viewing and features a large digital display and convenient 1-999 minute timer. Accuracy ±0.2°C; increments 0.1ºC. Two year warranty.

Interchangeable high grade aluminum blocks (sold separately) ensure uniform heat transfer for a variety of tubes. A block lifter with an insulated handle is included with each dry bath for easy block exchange. Custom blocks are also available.

Dimensions:
Single block position unit: 7.8″ W x 9″ D x 3.2″ H
Two block position unit: 8.7″ W x 10.3″ D x 3.2″ H
Four block position unit: 8.7″ W x 14″ D x 3.2″ H

Dry Bath Models

2510-1101	Single position Thermal-Lok Dry Bath	$369.00
2510-1102	Two position Thermal-Lok Dry Bath	$488.00
2510-1104	Four position Thermal-Lok Dry Bath	$799.00

Blocks

2520-0000	24-place block for 1.5/2.0 ml tubes	$98.00
2524-1500	24-place block for 1.5 ml tubes only	$98.00
2524-0000	24-place block for 0.5 ml tubes	$98.00
2512-0000	12-place block for 15 ml tubes	$98.00
2505-0000	5-place block for 50 ml tubes	$98.00

Less than 4.5″ wide!

2520-1001

Blocks for mini dry bath

Thermal-Lok™ Mini Dry Bath

Compact dry heat bath fits into tight lab spaces. Offers digital temperature control from 5°C above ambient to 100°C. Accuracy ±0.5°C; increments 0.1°C. Includes a clear hinged polycarbonate lid for temperature uniformity and a block lifter with insulated handle. Measures 4.4″ W x 5.9″ D x 4″ H; blocks are not included. Two year warranty.

The optional 12V power supply lets you heat samples in the field using your vehicle.

Dry Bath

2520-1001	Thermal-Lok Mini Dry Bath	$209.95
2522-7120	12V vehicle power adapter	$38.00

Blocks

2515-1520	15-place block for 1.5/2.0 ml tubes	$74.00
2515-4015	15-place block for 1.5 ml tubes only	$74.00
2524-4050	24-place block for 0.5 ml tubes	$74.00
2504-4150	4-place block for 15 ml tubes*	$98.00
2502-4500	2-place block for 50 ml tubes*	$98.00
2540-4020	40-place block for 0.2 ml PCR tubes**	$79.00

*Hinged cover must be open for use with these tubes.
**Holds 40 individual tubes or five 8-tube strips.

Personal Microcentrifuges

- 6000 rpm, 2000 x g
- Convenient on/off switch
- Choice of models and rotors

Personal centrifuge reaches top speed quickly and is ideal for spinning fluid down from tube caps and walls. Small size saves bench top space and allows it to fit under the hood. The centrifuge can be operated with the on/off switch or by opening and closing the lid.

Choose the 6-place rotor for 1.5 or 2.0 ml tubes, the 16-place rotor for 0.2 ml tubes, or both. Rotors are removable and interchangeable. The dual rotor model includes both rotors and a removal tool. Models with 6-place rotors include adapters for 0.5 ml tubes.

One year warranty, 110 V, 50/60 Hz. Each unit measures 5 1/8" W x 5 7/8" D x 4 5/8" H and weighs 2.3 pounds.

Dual Rotor Personal Centrifuge
Includes 6-place rotor and PCR tube/strip tube rotor.
2641-0016 $295.00

6-Place Personal Centrifuge
Includes 6-place rotor only.
2631-0006 $275.00

PCR Tube Personal Centrifuge
Includes PCR tube rotor only.
2621-0016 $275.00

Additional Rotors and Accessories
2631-7687 6-place rotor $19.95
2631-7887 PCR tube rotor $19.95
2625-9736 Rotor replacement wrench $10.00

PCR tube rotor

6-place rotor

Small size saves space.

SealRite® Tubes

Seal-Rite tubes protect your samples with a precision sealing system that prevents evaporation, leakage, and accidental opening. The deep cap plug, prominent sealing ring, and extended sealing zone work together to eliminate gaps and ensure performance. Seal-Rite tubes stay closed during heating, freezing, centrifugation, and exposure to phenol/chloroform mixtures. The caps seal securely, yet are easy to open.

See pages B2-B7 for more information about Seal-Rite microcentrifuge tubes.

4062-0207

4062-0100

MiniSpin® and MiniSpin plus™

- Variable speed up to 14,500 rpm (14,100 x g)
- Digital display
- Timer and quick spin button

Compact Eppendorf® personal microcentrifuges save space and provide powerful variable speed centrifugation. Both models include a 12-place rotor for 1.5 and 2.0 ml tubes. The MiniSpin has a 15 second to 30 minute timer. The MiniSpin plus has a 15 second to 99 minute timer with a continuous mode. Each centrifuge offers quick deceleration and acceleration and has a convenient short spin button. At the end of the run, the lid automatically opens. Each model measures 8.9″ W x 9.4″ D x 4.7″ H and weighs just 9.5 pounds. Two year warranty. 120 V, 60 Hz.

4062-0207	MiniSpin plus, max. 14,500 rpm, 14,100 x g	$1650.00
4062-0100	MiniSpin, max. 13,400 rpm, 12,100 x g	$1415.00
4066-5821	PCR strip tube rotor	$317.00
4063-6227	Adapters for 0.5 ml tubes, set of 6	$32.80
4063-6260	Adapters for 0.2 ml PCR tubes, set of 6	$32.80

4066-5821

4054-1137

4062-0304

4065-2061

Eppendorf Centrifuge 5418 and Centrifuge 5418R

The ultra-compact 18-place Centrifuge 5418 fits on even the smallest lab bench. About the size of a standard sheet of paper, it offers a broad range of features that make your lab work easier. It provides up to 16,873 x g (14,000 rpm) and is whisper quiet, even when running without the rotor lid, to improve your work environment.

The 18-place fixed angle rotor (included) holds 1.5 or 2.0 ml tubes and has an aerosol tight lid. The QuickLock® lid facilitates fast and secure closing.

Both models offer a digital display, timer or continuous control, easy rpm/rcf conversion, and a soft-touch one finger close. Centrifuge 5418 measures just 8.2″ W x 11.8″ D x 8.3″ H and weighs 17 pounds without the rotor. Centrifuge 5418 R has a temperature range of 0°C to 40°C, measures 11.7″ W x 18.2″ D x 9.8″ H, and weighs 48.5 pounds without the rotor. Two year warranty. 120 V, 60 Hz.

4062-0304	Centrifuge 5418 with rotor	$2190.00
4054-1137	Centrifuge 5418 R (refrigerated) with rotor	$6125.00
4065-2061	18-place aerosol tight rotor and lid	$713.00

USA Scientific sells the full line of Eppendorf centrifuges, rotors, and adapters. For more information please call 800-522-8477.

Eppendorf Centrifuge 5424 and Centrifuge 5424 R

4062-0401

Centrifuge 5424 and Centrifuge 5424 R are designed to accommodate a variety of applications and are whisper quiet, even when running without the rotor lid. Both models achieve a centrifugation force of up to 21,130 x g (15,000 rpm). The 24-place fixed angle rotor (included) holds 1.5 or 2.0 ml tubes and has an aerosol tight lid.

The centrifuge lid opens automatically at the end of the run to prevent sample warming and to allow easy access to samples. (Non-refrigerated version only; can be deactivated.) Other features include a full digit speed display for easy reading, SOFT-brake to protect delicate samples, fully adjustable end-of run-alarm (levels 1-5, mute) to reduce noise, and a short-spin function that can be programmed to your desired speed.

Two variations of these centrifuges are available: rotary knob control for quick adjustments or keypad for easy cleanups. Two year warranty. 120 V, 60 Hz.

4054-4537

Centrifuge 5424

4062-0401	Rotary knob panel, includes 24-place rotor	$2890.00
4062-0444	Keypad panel, includes 24-place rotor	$2890.00

Centrifuge 5424 R (refrigerated)

4054-4537	Rotary knob panel, includes 24-place rotor	$6860.00
4054-4138	Keypad panel, includes 24-place rotor	$6860.00

Additional Rotors

4065-3083	18-place 1.5/2.0 ml miniprep spin column rotor	$713.00
4065-3121	PCR strip rotor, holds four 8-tube strips	$713.00
4065-3041	24-place 1.5/2.0 ml coated aerosol tight rotor	$1015.00
4065-3008	24-place 1.5/2.0 ml aerosol tight rotor	$870.00

4065-3083

4065-3121

4065-3041

4065-3008

Specifications	5424	5424 R
G-force (rcf)	50-21,130 x g	
Speed	100–15,000 rpm (100 rpm increments)	
Maximum capacity	24 x 1.5/2.0 ml	
Rotor choices	4	
Acceleration/braking	15 seconds/16 seconds	
Sound level	<51 dB(A)	<54 dB(A)
Temperature control	--	-10°C to 40°C
Time setting	30 s to 9:59 h, with continuous mode	
Dimensions (W x D x H)	9.3 x 12.6 x 8.9 in 23.6 x 32 x 22.7 cm	11.4 x 18.9 x 10 in 29 x 48 x 26 cm
Weight without rotor	29.5 lb/13.4 kg	46.3 lb/21 kg

Centrifuge 5430 shown with optional plate rotor

Eppendorf Centrifuge 5430

The best features of a micro and multipurpose centrifuge in a compact bench top size. Menu-driven operation with a large backlit display. Centrifuge 5430 and Centrifuge 5430 R store up to 50 programs and have automatic rotor recognition with speed limitation. The refrigerated model offers programmable pre-cooling and an energy reducing ECO shut off after 8 hours of non-use. See www.usascientific.com for more information and a selection of rotors.

Rotors available for:

- √ 0.5/1.5/2.0 ml tubes
- √ PCR tubes
- √ PCR strips
- √ PCR plates
- √ Multiple well plates
- √ MiniPrep kits
- √ 15/50 ml tubes
- √ Vacutainer® tubes
- √ Oak Ridge tubes
- √ Cryogenic tubes

Centrifuge 5430 R

Centrifuge 5430
Includes 30-place 1.5/2.0 ml aerosol-tight coated rotor

4062-0509	Keypad panel	$4620.00
4062-0511	Rotary dial panel	$4620.00

Centrifuge 5430 R (refrigerated)
Includes 30-place 1.5/2.0 ml aerosol-tight coated rotor

4062-0601	Keypad panel	$8970.00
4062-0623	Rotary dial panel	$8970.00

Specifications	5430	5430 R
G-force (rcf)	30,130 x g	
Speed	100-17,500 rpm (100 rpm increments)	
Maximum capacity	30 x 1.5/2.0 ml	
Rotor choices	12	
Acceleration/braking	<14 seconds	<15 seconds
Sound level	<67 dB(A)	<63 dB(A)
Temperature control	--	-11° to 40° C
Time setting	30 s to 9:59 h; also continuous mode	
Dimensions (W x D x H)	13 x 16.3 x 9.8 in (33 x 42 x 25 cm)	15 x 25.2 x 11.7 in (38 x 64 x 29 cm)
Weight without rotor	63.8 lb/29 kg	123.5 lb/56 kg

Centrifuge 5702

Eppendorf Centrifuge 5702

Low speed, general purpose centrifuges are designed for cell culture and clinical labs. The units are compact, quiet, and ventilated to minimize sample warming, even under constant use. The digital display features rpm/rcf conversion and the SOFT brake option allows slow acceleration and braking.

Cell culture package includes a 4 x 85 ml swing-bucket rotor, four 15 ml and four 50 ml conical tube adapters. Clinical package includes a 4 x 85 ml swing-bucket rotor, four 13 mm blood tube adapters and four 16 mm tube adapters.

Rotors available for:

- √ 0.5/1.5/2.0 ml tubes
- √ 0.2 ml PCR tubes
- √ PCR strips
- √ 15/50 ml tubes
- √ Vacutainer® tubes
- √ Oak Ridge tubes
- √ Glass tubes

Centrifuge 5702 R

4062-8102	Centrifuge 5702 cell culture package	$3700.00
4062-8113	Centrifuge 5702 R cell culture package	$6550.00
4062-8001	Centrifuge 5702 clinical package	$3700.00
4062-8012	Centrifuge 5702 R clinical package	$6550.00

Specifications	5702	5702 R
G-force (rcf)	3,000 x g	
Speed	100-4,400 rpm	
Maximum capacity	4 x 100 ml or 30 x 15 ml	
Rotor choices	6	
Acceleration/braking	<25 seconds (in A-4-38 rotor)	
Temperature control	No	-9° to 40° C
Sound level	< 51 dB(A)	< 45 dB(A)
Time setting	0-99 min; also continuous mode	
Dimensions (W x D x H)	12.5 x 15.6 x 9.5 in 32 x 40 x 24 cm	15 x 22.8 x 10.2 in 38 x 58 x 26 cm
Weight without rotor	44 lb / 20 kg	78 lb / 36 kg

MicroPlate Genie®

Mix any skirted multiple-well plate with an industry standard footprint, including 384-well plates. Small 1.0 mm vortex orbit thoroughly mixes samples at speeds of 750-3200 RPM. Operate continuously or set the 1-60 minute timer. Weighs 6.1 pounds and measures 6.5″ D x 6.5″ W x 6.5″ H. 120 V, 60 Hz. Two year warranty.

Choose the Multi-MicroPlate Genie™ to mix one to four plates. An additional platform may be stacked onto the unit to hold a total of eight plates. Weighs 8.1 pounds and measures 9.4″ D x 13.2″ W x 6.5″ H.

7400-0400	MicroPlate Genie	$525.00
7400-4000	Multi-MicroPlate Genie	$675.00
7400-0410	Additional platform*	$99.00

7400-4000

7400-0400

7400-0410

Digital MicroPlate Genie® Pulse

Digital microplate mixer offers full programmability from 500 to 3000 RPM for precise speed and time control. A true pulsing action also provides more collisions and random motion than standard mixers. Choose continuous or timer (0-99 minute) control. Weighs 6.1 pounds and measures 6.5″ D x 6.5″ W x 6.5″ H.

1.0 mm vortex orbit provides thorough mixing regardless of sample viscosity. The pulse “ON” and “OFF” times can be set from 0.1 seconds to 99 minutes. Choose the Digital Multi-MicroPlate Genie™ to mix one to four plates. An additional platform may be added to hold a total of eight plates. Weighs 8.1 pounds and measures 9.4″ D x 13.2″ W x 6.5″ H. 120 V, 60 Hz. Two year warranty.

7401-0400	Digital MicroPlate Genie Pulse	$690.00
7402-4000	Digital Multi-MicroPlate Genie Pulse	$800.00
7400-0410	Additional platform*	$99.00

*For use with Multi-Microplate models only.

MicroPlate Mixer

Small microplate mixer has an orbital diameter of 4.5 mm and a speed range of 0-1500 rpm. Accepts any skirted plate with an SBS footprint. Optional double plate holder lets you mix two plates at once. Measures 15 cm wide with single plate platform, 18.5 cm wide with optional dual plate platform.

8182-2019	Microplate mixer	$419.00
8182-3620	Optional dual plate platform	$19.50

8182-3620

8182-2019

Specifications

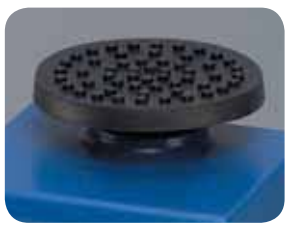
Speed range	0-1500 rpm
Shaking movement	Orbital
Orbit diameter	4.5 mm
Maximum shaking weight	1 lb
Motor type	Brushless
Permissible relative humidity	80%
Permissible ambient temperature	5-40°C
Electrical requirements	100-240 VAC, 50-60 Hz
Dimensions	15 cm W x 26 cm L x 8.8 cm H
Net weight	7 lb
Warranty	Two years

7404-5600 7402-2360

7408-2360

7402-5360

7407-2360



7465-5902

7465-2360

7446-3011

Anti-vibration pad

Vortex-Genie® 2 Mixers

Versatile mixers have a metal housing and optimum weight to provide a stable platform for all types of mixing. All Vortex-Genie 2 models offer variable speed, interchangeable sample platforms, and hands-free mixing. The base of each mixer measures 6.5″ L x 4.8″ W x 6.5″ H and weighs 8.8 pounds. 120 V, 60 Hz. All Vortex-Genie models are made in the USA and have a two year warranty.

Vortex-Genie® 2

600-3200 rpm analog control. Includes a cup head and 3″ platform.

7404-5600 $355.00

Vortex-Genie® 2T

600-3200 rpm analog control. Timer operates from 1-60 seconds in the touch mode and 1-60 minutes in the hands-free mode. Includes a cup head and 3″ platform.

7408-2360 $441.00

Digital Vortex-Genie® 2

Digital controls provide a precise, repeatable vortex. 500-3000 rpm. Timer modes: 1-99 second touch and 1-99 minute hands-free. Includes a cup head and 3″ platform.

7402-2360 $447.00

Digital Vortex-Genie® 2 for Applied Biosystems®

Includes a plate adapter and elastic bands for use with dye terminator purification kits only. 500-3000 rpm; includes 1-99 sec/1-99 minute timer. Does not include a cup head or 3″ platform.

7402-5360 $456.00

Vortex-Genie® Pulse

Pulsing action provides a more random motion for thorough mixing that is more aggressive than standard vortexing but less than homogenization or disruption. Programmable “On” and “Rest” function reduces heat buildup while keeping heat sensitive materials in suspension. 500-3000 digital rpm with 0.1 second-99 minute timer. Includes 3″ platform with cover and a cup head. Accepts all Vortex-Genie accessories. Two year warranty.

7407-2360 $447.00

Vortex-Genie® Replacement Parts

May be used with most Vortex-Genie models.

7465-5902	3″ platform with rubber cover	$39.00
7446-3011	Pop-off cup head	$25.00
7465-2360	Shock absorbing feet and screws, 4/pack	$18.13

Anti-Vibration Pads

Non-slip pads dampen vibrations generated from lab equipment. Can be stacked or positioned side by side for larger equipment.

9182-1000	7″ x 8.5″	$32.50
9182-2000	8.5″ x 11	$38.00
9182-3000	One each 7″ x 8.5″ and 8.5″ x 11″	$38.00

Vortex-Genie® 2 Accessories

Optional sample platforms offer walk away convenience for single or multiple samples on any Vortex-Genie 2. Not for use with Vortex-Genie 1.

Multiple Sample Head Set

Includes 6" platform head, insert for 60 micro-tubes (5.0 mm to 10.5 mm) and 96-well plate insert.

7404-3010 $80.00

Large Sample Head Set

Includes recessed platform, elastic bands, and an assortment of inserts for beakers, flasks, and large tubes (10 mm to 37 mm).

7404-3020 $142.00

Multi-Tube Holders

Vertical multi-size holder has positions for 6 x 50 ml, 6 x 15 ml, and 12 x 1.5/2.0 ml tubes. All others are for single tube sizes only.

7409-5250	Vertical multi-size tube holder	$112.00
7404-9506	Vertical, 6 x 50 ml tubes	$81.00
7404-9512	Vertical, 12 x 15 ml tubes	$92.00
7404-9524	Vertical, 24 x 1.5/2.0 ml tubes	$102.00
7404-4506	Horizontal, 6 x 50 ml tubes	$81.00
7404-4512	Horizontal, 12 x 15 ml tubes	$92.00
7404-4524	Horizontal, 24 x 1.5/2.0 ml tubes	$102.00
7400-8203	High speed holder, 3 x 50 ml tubes	$75.00
7400-8206	High speed holder, 6 x 15 ml tubes	$85.00
7400-8209	High speed holder, 9 x 1.5/2.0 ml	$95.00

7404-3010

7404-3020

7409-5250

7404-9506

7404-9512

7404-9524

7404-4506

7404-4512

7404-4524

7400-8203

Multi Vortex-Genie

Mix multiple test tubes, vials, cylinders, flasks or other vessels with the same original motion as the Vortex-Genie® 2. Use for gentle, orbital-style shaking or vigorous vortexing (250-1000 rpm).

New adjustable clamping system accommodates a greater variety of containers, including deep well plates and up to four 500 ml bottles. Includes two 12-place racks for tubes of up to 29 mm in diameter.

A programmable, gentle ramp up allows use of open containers. Use in cold rooms or incubators. Digital speed and time controls ensure reproducibility and accuracy. Includes 1-99 minute timer or choose continuous control. Dimensions: 10.6" W x 12.2" D x 7.7" H. Weight: 25 lbs.

7406-2360 Multi Vortex-Genie, 120 V, 60 Hz $1850.00

7404-3010

7404-3020

7400-8206

7400-8209

7400-0136

7403-2380

Vortex-Genie® 1

Enhanced vortex action for maximum high-speed mixing at 3200 rpm. Touch control only. Includes a cup head. May be used with optional 3" platform; does not accept other attachments. Two year warranty.

7400-0136	Vortex-Genie 1	$302.00
7465-5902	3" platform with rubber cover	$39.00

Disruptor Genie®

Powerful multidirectional action agitates and vortexes at high-speed. Rapidly disrupts yeast cells, bacteria, and tissue and re-suspends cells for DNA minipreps. The performance is comparable to expensive ultrasonic disruptors/homogenizers. Each unit holds up to twelve 1.5 or 2.0 ml tubes and includes a pop-off cup head. 120 V, 60 Hz. Two year warranty.

Continuous or timer control; maximum speed of 3000 rpm. Digital model displays speed and time for increased accuracy and reproducibility.

7403-2380	Disruptor Genie	$587.00
7403-3380	Digital Disruptor Genie	$680.00

7403-3380

1420-9600

Glass Beads

Lead-free, soda lime glass disruption beads are ready for use in most protocols. Each bottle has an easy dispenser cap and contains 375 g (8 fl. oz.).

7400-2401	0.1 mm beads	$26.00
7400-2405	0.5 mm beads	$26.00

7400-2401 7400-2405

Impact Resistant Screw Cap Tubes

Self-standing 2.0 ml screw cap tube developed for bead beating and homogenization. Specially formulated polypropylene improves elasticity for increased durability. 200/pack.

1420-9600	Impact resistant 2.0 ml tubes	$78.25

Thermomixer R

Thermomixer

Eppendorf Thermomixer® R

Mixes and incubates tubes, plates, or slides at a temperature from 13°C below RT to 99°C. 3 mm mixing orbit; 300-1500 rpm (block dependent). Offers continuous or timed mixing from 1 minute to 99.59 hours. 8.7" W x 9.8" D x 4.9" H without block. 120 V. Nine block options offer a high degree of flexibility. See www.usascientific.com for additional blocks.

4067-0107	Thermomixer R, without blocks	$3540.00
4067-0506	24-place block for 0.5 ml tubes	$708.00
4067-0522	24-place block for 1.5 ml tubes	$708.00
4067-0549	24-place block for 2.0 ml tubes	$708.00

Eppendorf Thermomixer®

Dedicated unit mixes and heats 1.5 ml tubes from 4°C above ambient to 99°C. 3 mm mixing orbit; 300-1400 rpm. 6.5" W x 9.4" D x 5.7" H. Includes an Isotherm rack and 0° cool pack for 24 tubes. 120 V.

4067-0000	Thermomixer	$2740.00

Orbital-Genie™ Orbital Shaker

Bench top orbital shakers offer variable shaking speed with orbit reversing. Create any mixing action from a smooth vortex of 10 rpm to a vigorous 300 rpm. All three shakers have an 18 x 18 inch platform, programmable ramp-up for smooth starts, and timer/continuous control.

Orbital-Genie shakers are fully programmable, giving you control over time, reversing time, acceleration, and deceleration rates. The stepper motor delivers exceptional speed control, accuracy, and durability. They may be used in cold rooms, incubators, or CO_2 environments.

Choose the shaker with adhering mat for flasks or dishes that do not require clamps. The flask clamp model includes the platform for mounting clamps only; clamps are sold separately. Flask clamps can also be used on the 7400-1700 by removing the blue adhering mat. 120 V. Two-year warranty.

7400-1700	Orbital-Genie with adhering mat	$2490.00
7400-1600	Orbital-Genie for flask clamps	$2290.00
7400-1500	Orbital-Genie with ratcheting clamps	$2990.00

See www.usascientific.com for flask clamp selection and platform capacity.

Specifications

Speed	10-300 rpm including stir reverse
Timer	1 min – 99 hours with alarm or continuous
Orbital diameter	32 mm
Selectable ramp rates	10-100 rpm/sec
Maximum load	26 lb (12 kg)
Platform Dimensions (D x W)	18" x 18" 460 x 460 mm
Overall Dimensions (D x W)	23" x 20" 590 x 500 mm
Weight	46 lb (21 kg)

Rotator Genie®

Compact, durable rotator is versatile enough to handle a variety of containers, yet small enough to fit into an incubator. The magnetic platform holds clip plates (sold separately) for tubes and other vessels. The standard platform uses retaining bands to hold items in place. May be used in cold rooms; operates at temperatures from 0°C to 38°C and up to 95% relative humidity.

Specifications:
Rotates from 5-35 rpm; weighs 11.5 lb; measures 15.8" W x 15.8" H x 7" D (11.5" platform horizontal); 120 V; 2-year warranty.

7400-2200	Rotator Genie, magnetic platform	$850.00
7400-2100	Rotator Genie, standard platform	$825.00

Accessories for Magnetic Platform

7400-1120	Clip plates for 12 x 10-13 mm tubes, 6/pack	$115.00
7400-1121	Clip plates for 6 x 15-17 mm tubes, 6/pack	$115.00
7400-1122	Clip plates for 3 x 28-30 mm tubes, 6/pack	$115.00
7400-1126	Strips for mounting bags, 16/pack	$46.00
7400-1134	Universal plates with retaining bands, 2/pack	$46.00

Shown with clip plates for tubes

Non-skid rocker tray

Strips for bags

Optional hybridization tube clips

Optional orbital shaker

7400-1150

7400-1120

7400-1121

7400-1126

7400-1122

Multi-Action Rotator/Rocker

The Roto-Shake Genie® is a multi-action platform rotator/rocker. A simple adjustment changes the mixing platform action from complete rotation to rocking. The platform surfaces are magnetized to hold a non-skid rocker tray, magnetic tube clips, or magnetic strips for plastic bags.

Orient the magnetic clips in a vertical, horizontal, or diagonal position to achieve a specific mixing action or combination of actions. The different orientations will cause the vessel contents to roll, tumble, or mix in a combination of movements. An optional 3-D orbital shaker attachment is available.

May be used in cold rooms or incubators. Maintains the set speed between 0°C and 38°C and will operate in up to 95% relative humidity. 120 V. Two year warranty.

Includes the following accessories:

- Non-skid 12" x 12" metal rocker tray
- Four 4" x ½" stainless steel strips
- 12-place clip plate for 10-13 mm tubes (microcentrifuge tubes)
- 6-place clip plate for 15-17 mm tubes (15 ml conical tubes)
- 3-place clip plate for 28-30 mm tubes (50 ml conical tubes)

7400-1100	Roto-Shake Genie	$1150.00

Specifications

Rotating	5-35 rpm
Rocking	±10 degrees, 10-70 cycles per minute
Platform size	8" x 13.5" (20.3 cm x 34.3 cm)
Platform capacity	10 lb (4.5 kg)
Overall dimensions	20" W x 9.9" D x 10.5" H (12" D with rocker tray)
Net weight	26 lb (11.8 kg)

Roto-Shake Genie Accessories

The 3-D orbital shaker attachment moves at a 5° angle through a 360° rotation to provide a combination of vertical and horizontal motions. The complete mixing motion makes it an ideal choice for applications such as gel staining, blot blocking, sample washing, polymer resin preparation, and more.

Additional magnetic tube clip plates and magnetic bag strips are available for increased capacity. Tube clips are supplied in sets of 6 plates; bag strips are in sets of sixteen.

7400-1150	3-D orbital skaker attachment	$300.00
7400-1120	Clips for 10-13 mm tubes	$115.00
7400-1121	Clips for 15-17 mm tubes	$115.00
7400-1122	Clips for 28-30 mm tubes	$115.00
7400-1126	Strips for mounting bags	$46.00
7400-1130	Clip plates (2) for hybridization tubes	$136.00

ENVIRO-GENIE® Mixer

- Precise temperature control from 4°C to 75°C
- Rotates, rocks, stirs, and shakes
- Includes accessories

Need temperature control and agitation in a small space? Perform assays, washings, hybridizations, and cell growth studies right at your bench. The Enviro-Genie® personal cold room/incubator rotates, rocks, stirs, and shakes at precise temperatures and speeds. The chamber air is continuously circulated for temperature consistency and uniformity. Experiments can be monitored through the window without affecting the chamber environment.

A simple adjustment changes the 2-sided stainless steel platform from complete rotation to rocking. The platform is magnetized for use with the non-skid rocker tray, tube clips, bag strips, or other magnetized holders.

The Enviro-Genie accommodates most tubes, vials, beakers, flasks, tissue culture dishes, multiple well plates, plastic bags, and hybridization and staining trays.

Includes the following accessories:

- Non-skid 8″ x 12″ metal rocker tray
- Four 4″ x ½″ stainless steel strips
- 12-place clip plate for microcentrifuge tubes
- 6-place clip plate for 15 ml conical tubes
- 3-place clip plate for 50 ml conical tubes
- Stackable wire rack

7400-1200 $5800.00

Specifications for the Enviro-Genie®

Stirring	1-2000 rpm, includes stir reverse	Platform capacity	10 lb (4.5 kg)
Rotating	1-35 rpm	Electrical requirements	120 V, 60 Hz, 5 amps
Rocking	2-70 cycles per minute	Chamber dimensions	10” D x 14¼” W x 10¼” H
Temperature range	4°C to 75°C	Chamber volume	0.86 cu ft (24 liters)
Accuracy	±0.2°C	Display	Separate displays for speed, temperature and time (elapsed or remaining, up to 96 hours)
Uniformity	±0.5°C		
Warranty	Two years	Overall dimensions	19½” D x 24½” W x 14½” H (49.5 cm x 62.2 cm x 36.8 cm)
		Net/shipping weight	80 lb (36 kg) / 90 lb (41 kg)

Please see usascientific.com for expansion kits and accessories.

Incubator-Genie™

Compact bench top rocker/rotator offers precise temperature control from 28°C to 75°C. Includes a magnetic stainless steel platform, clip plates for tubes, mounting strips for bags, a non-skid tray for rocking, and a wire shelf. Additional accessories are available.

Specifications: Rotates from 1-35 rpm; rocks from 2-70 cycles per minute; holds up to 10 lb; weighs 43 lb; measures 15.75″ D x 22″ W x 14.5″ H; temperature resolution 1.0°C; accuracy ±0.2°C; 2-year warranty.

7400-1400 $3895.00

8181-2349

Compact Stirrer/Hot Plate

Compact unit stirs from 100-1500 rpm and heats up to 340°C. Features a 135 mm diameter stainless steel platform, an easy to read digital backlit LCD, constant and intermittent stirring, and a residual heat warning display. Unit performance can be controlled or documented via the RS232 interface. Measures 160 W x 280 D x 85 mm H. 110 V, 60 Hz. Two year warranty.

8181-2349 $495.00

8177-2550

Ceramic Top Stirrer/Hot Plate

Magnetic stirrer/hotplate with digital control heats from ambient to 550°C and stirs from 100-1500 rpm. The 7.25" x 7.25" ceramic-glass top is easy to clean and resistant to most laboratory chemicals. The easy-to-read backlit LCD displays the set and actual temperatures when on and a residual heat warning when off. Also features an RS232 interface for PC control and measurement and a brushless motor. Maximum stirring capacity is 20 liters. Measures 8.5" W x 14" D x 4.4" H. 100-120 V, 60 Hz. Two year warranty.

8177-2550 $685.00

7432-3612 7422-3612

MegaMag Genie™

Large volume magnetic stirrer has exceptional magnetic force capable of stirring up to 38 liters. Spill resistant housing channels fluids away from the internal components. Durable ABS/polycarbonate housing; may be used in cold rooms and incubators. Stirs from 200-1300 rpm; weighs 6.6 lb; measures 12.25" D x 12" W x 5.1" H. 120 V. Two year warranty.

The digital version shares the features above and offers True Speed readout (rpm) adjustable in 10 rpm increments. Also includes a 1-99 minute timer.

7422-3612 MegaMag Genie $650.00
7432-3612 Digital MegaMag Genie $790.00

MagStir Genie®

Digital programmable magnetic stirrers can be manually operated or programmed for complex applications such as reverse or interval stirring or ramping speeds. Four user-defined profiles of up to nine steps may be stored in memory. Choose from three power levels for various sample viscosities. Microprocessor control allows precise and reproducible operation without heat build-up. 120 V. Two year warranty.

7400-0300 MagStir Genie $550.00
7400-3000 MultiMagStir Genie $998.00

7400-0300

7400-3000

Specifications	MagStir Genie	MultiMagStir Genie
Speed	10-1800 rpm	10-1200 rpm
Timer	1 sec-99 hours	
Ramp rates	5-300 rpm/sec	
Max. capacity	5.0 kg (11 lb)	10.0 kg (22 lb)
Dimensions (D X W X H)	200 x 160 x 55 mm 7.9" x 6.3" x 2.2"	375 x 325 x 48 mm 14.8" x 12.8" x 1.9"
Weight	1.0 kg (2.2 lb)	3.2 kg (7.0 lb)

Homogenizer with Replaceable Probes

Fast, Convenient Processing of Multiple Samples

Speed up sample preparation and prevent loss or cross contamination with Omni homogenizers featuring removable generator probes. The probes are designed for sample volumes of 0.25 ml to 30 ml and are ideal for PCR, RNA, and DNA sample processing. The two-piece design comes apart for easy cleaning; keep several on hand for faster processing of separate samples or dispose after use to eliminate the risk of cross contamination.

Hard tissue tips have saw teeth for aggressive processing. Soft tissue tips have flat bottom teeth for gentler processing. Omni Tip probes measure 110 mm long by 7 mm in diameter and will fit into 1.5 ml microcentrifuge tubes or large 50 ml tubes. They will withstand limited autoclaving.

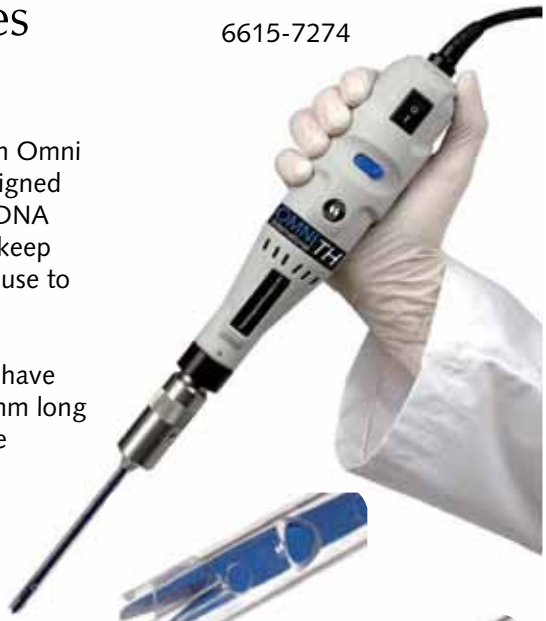
Omni TH units offer variable speed from 5,000 to 35,000 rpm and have a 125 watt motor. They can be used with both plastic and stainless steel probes. Weight: 16.4 oz; sound level; <72 db. One year motor warranty. CE approved.

Omni THQ homogenizers offer digital control for extremely accurate and reproducible results. Ultra quiet brushless motors provide better speed control regardless of fluctuations in sample size or viscosity. Variable speed of 8,000 to 35,000 rpm; 20 watt motor. Accepts stainless steel or plastic probes. Weight: 10.8 oz; sound level <65 db. Three year motor warranty. CE approved.

Kits include one handheld Omni TH Motor or THQ motor, 12 disposable Omni Tip™ probes, additional accessories, and a storage case. Homogenizers can also be mounted on a stand. See www.usascientific.com for more details.

6615-7274	TH hard tissue homogenizer kit	$975.00
6615-7273	TH soft tissue homogenizer kit	$975.00
6612-2100	THQ digital homogenizer kit	$1895.00
6630-7504	Hard tissue Omni Tip probes, 25/pack	$265.00
6630-7500	Soft tissue Omni Tip probes, 25/pack	$265.00

6615-7274



6630-7504

6630-7500

6612-2100

Omni TissueMaster 125

Economical homogenizer is designed for research applications involving small volume samples with little variation in sample size. The Tissue Master 125 comes with a 7 mm x 85 mm stainless steel generator probe that is specifically designed for processing volumes of 0.25 to 30 ml. The probe can handle a wide variety of sample types. This 125 watt unit operates at speeds from 5,000 to 35,000 rpm and weighs just 18.8 oz.

Includes a 7 mm generator probe, tool kit, and instruction manual. Meets CSA and CE standards. One year motor warranty.

6686-1125 $775.00

6686-1125

Prices and products subject to change without notice. See www.usascientific.com for current information.

x-tracta™ Disposable Gel Extraction Tool

- Eliminates cross contamination
- Minimizes UV damage to samples
- Creates uniform gel slices every time
- Replaces hazardous blades

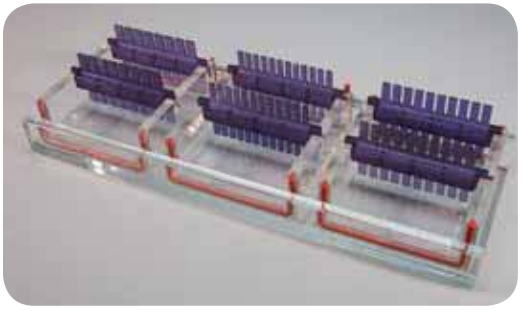
The x-tracta agarose gel tool gives you cleaner DNA in less time and with less effort. This disposable tool cleanly cuts and picks up uniform gel slices, eliminating possible cross-contamination from razor blades, tweezers, or other gel cutting methods. The process is quick, reducing the time that both you and your DNA samples are exposed to UV light. Slippery gel bands are contained in the device until you release them, and can be transferred directly to microcentrifuge tubes for the next extraction step.

5454-2500	Pack of 25	$16.25
5454-0100	Pack of 100	$61.75

Mini gel casting procedure:

Place the gel tray inside the chamber with the gaskets forming a seal against the chamber sides. Pour agarose and insert the comb(s).

When the gel is set, lift the tray, rotate it 90°, and return it to the gel chamber.



DNA PLUS® Mini Gel Systems

- Quick, easy gel casting
- Two comb positions for running multiple samples
- UV transmissible gel tray with ruler
- Vented lid reduces condensation
- Three year warranty

DNA Plus systems are durable and easy to use. Gels are cast in the empty buffer chamber without the need for end caps or tape. Two comb positions allow one full length or two half length runs. Double-sided polycarbonate combs feature both 1.0 mm and 1.5 mm thick teeth. Optional casters are available for pouring gels while the buffer chamber is in use.

Strong gel trays resist warping from warm (<60°C) agarose. Gel trays are made from a UV transmissible acrylic that allows direct viewing or imaging on UV light boxes.

Each DNA Plus Mini Gel system includes a buffer chamber with platinum electrodes, one UV transmissible gel tray with fluorescent ruler, two double-sided sample combs, and a safety lid with power cords.

External Casting Chamber

Optional external casting chambers allows you to pour up to three gels at one time outside of the buffer chamber. External casting chambers are available for the 7 x 8 cm, 9 x 11 cm, and 12 x 14 cm DNA Plus systems. (See page H17 for ordering information.)

Mini Gel Systems

DNA Plus mini gel systems with the quick, in-chamber gel casting design are available in three sizes. See page H16 for complete information.

3486-5000	7 x 8 cm DNA Plus system	$408.75
3487-0000	9 x 11 cm DNA Plus system	$467.25
3487-5000	12 x 14 cm DNA Plus system	$522.00
3924-1000	Replacement power leads	$39.25

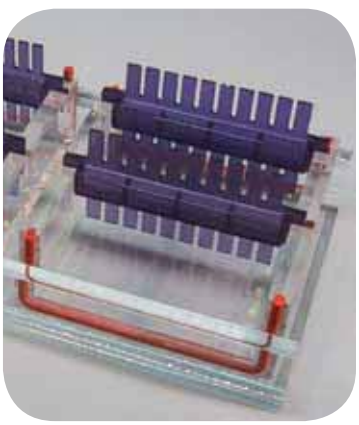
3486-5000

DNA Plus Mini Gel Systems and Accessories

Gel system catalog no.	**3486-5000**	**3487-0000**	**3487-5000**
Gel size	7 x 8 cm	9 x 11 cm	12 x 14 cm
Combs included	6-tooth, 10-tooth	10-tooth, 14-tooth	12-tooth, 20-tooth
Running buffer volume	400 ml	600 ml	800 ml
OD, W x L x H	10.5 x 16 x 9.5 cm	15 x 22 x 9.5 cm	18 x 24.5 x 9.5 cm
Replacement gel tray	3486-5007 $82.25	3487-0007 $98.00	3487-5007 $105.50
Optional external casting chamber	3486-5001 $82.25	3487-0001 $98.00	3487-5001 $105.50
Replacement gaskets, one pair	3486-5028 $17.75	3487-0028 $17.75	3487-5028 $17.75

Optional Double-Sided Sample Combs

Polycarbonate gel combs have 1.5 mm wide teeth on one side and 1.0 mm wide teeth on the other. Each comb is listed with the recommended loading volume for a 1.0 cm thick gel. See www.usascientific.com for additional sample combs.



Combs for the 3486-5000 7 x 8 cm system

3486-5510 10-tooth, 4.8 mm tooth width, 1.5 mm (46 µl) and 1.0 mm (30 µl) $55.75
3486-5512 12-tooth, 3.7 mm tooth width, 1.5 mm (35 µl) and 1.0 mm (23 µl) $55.75

Combs for the 3487-0000 9 x 11 cm system

3487-0510 10-tooth, 6.8 mm tooth width, 1.5 mm (65 µl) and 1.0 mm (43 µl) $55.75
3487-0514 14-tooth, 4.4 mm tooth width, 1.5 mm (42 µl) and 1.0 mm (28 µl) $55.75

Combs for the 3487-5000 12 x 14 cm system

3487-5512 12-tooth, 7.2 mm tooth width, 1.5 mm (69 µl) and 1.0 mm (46 µl) $55.75
3487-5520 20-tooth, 3.9 mm tooth width, 1.5 mm (37 µl) and 1.0 mm (25 µl) $55.75
3487-5524 24-tooth, 3.0 mm tooth width, 1.5 mm (29 µl) and 1.0 mm (19 µl) $55.75

Prices and products subject to change without notice. See www.usascientific.com for current information.

3431-4000

DNA PLUS® High Capacity Gel System

This high capacity 23 cm W x 14 cm L gel system is ideal for screening up to 200 samples (4 combs). Gel combs are compatible with multi-channel pipettors (9 mm spacing) for quick sample transfer from 96-well plates. Optimized electrode placement gives fast runs with maximum resolution and no smiling. Gels are easily cast in the external casting chamber without the need for additional bumpers or tape. The thick gel tray resists warping from warm (<60°C) agarose, and the vented lid reduces fogging from condensation.

Each system includes a buffer chamber with platinum electrodes, one UV transmissible gel tray, an external gel casting chamber with leveling screws, four 1.5 mm thick 50-tooth sample combs, and a safety lid with power cords.

Measures 27 cm W x 30 cm L x 11 cm H (OD). Running buffer volume: 800 ml. See www.usascientific.com for additional gel combs and other accessories. Three year warranty.

3431-4000 23 x 14 cm gel system $795.75

3482-0000

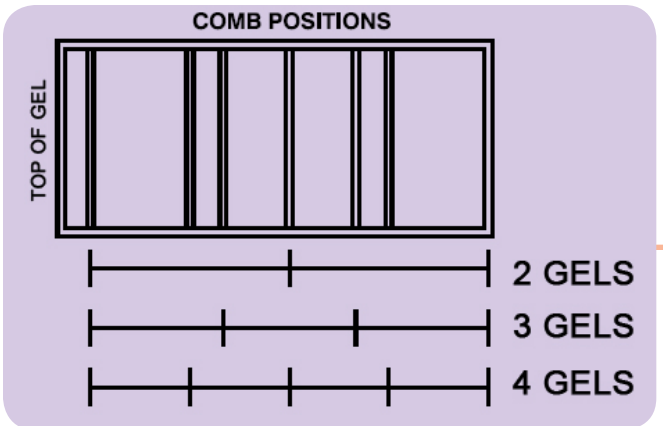
Large Horizontal Gel System

This large 20 cm W x 25 cm L gel system has a versatile gel tray with multiple comb slots that may be used for one long gel or two to four shorter separations. To conserve agarose, a shorter gel may be poured by placing a wall comb (optional) in one of five slots.

Each system includes a buffer chamber with platinum electrodes and built-in leveling screws, one UV transmissible gel tray with end gates, three 1.5 mm thick sample combs (16-, 24-, and 36-tooth), and a safety lid with power cords.

Measures 28 cm W x 37.5 cm L x 11 cm H (OD). Running buffer volume: 2.3 liters. See www.usascientific.com for additional gel combs and other accessories. Three year warranty.

3482-0000 20 x 25 cm gel system $751.75



For multiple short runs in the same gel, place the combs equidistant along the gel tray. To form a single short gel, place a wall comb (sold separately) at the desired gel length. The wall comb acts like a barrier and replaces one end gate.

UV Transilluminators

- 312 nm output
- Hinged UV protective cover
- Even light transmission

Outstanding UV intensity and uniformity reveals even trace amounts of DNA. The removable diffusing screen distributes light evenly and eliminates confusing striations. The 312 nm wavelength virtually eliminates the transmission of 254 nm radiation that can cause photobleaching, photonicking, and photodimerization. High quality filter glass inhibits solarization up to 50 times longer than conventional filters to extend the effective life and brightness of the filters.

3498-3312

Standard unit has an 11 x 14 cm filter and measures 11¼″ W x 14″ L x 2¼″ H. Large unit has a 21 x 26 cm filter and measures 12″ W x 13¼″ L x 3½″ H. 120 V, 60 Hz. One year warranty.

3498-3312	UV transilluminator	$879.75
3494-3123	UV transilluminator, large	$1445.00

Microscope Enclosures

AirClean Systems ductless microscope enclosures provide a Class 100 environment and work with a variety of microscopes. The front microscope port allows easy access to the eyepiece and viewing platform.

4263-2642

Microprocessor controlled with audible and visible alarms that indicate when air filters and UV bulbs require replacement. Constructed from UV and chemical resistant material. No installation is required; workstations are delivered fully assembled and ready for use. UL, CSA, and CE certified. 110 V.

32″ microscope enclosure measures 32″ W x 24″ D x 40″ H.
48″ microscope enclosure measures 48″ W x 24″ D x 42″ H.
Optional epoxy coated steel carts are available (see page C19).
Carts measures 34″ high.

4263-2642	32″ microscope enclosure	$4250.00
4264-8642	48″ microscope enclosure	$4900.00
4232-1011	Optional cart for 32″ enclosure	$875.00
4248-1039	Optional cart for 48″ enclosure	$1045.00

4264-8642

See page C19 for PCR workstations with HEPA filtration and dead air boxes.

Prices and products subject to change without notice. See www.usascientific.com for current information.

NEW!

4061-3517

Eppendorf BioSpectrometer® basic

The new BioSpectrometer basic provides a wide range of methods for many different applications in molecular biology, cell biology, and biochemical procedures.

The small and lightweight BioSpectrometer basic is easy to operate via an integrated 5.7 inch color display and keypad (no PC required). Spectrum analysis can be performed via the Eppendorf SpectraZoom® function. The Xenon flash lamp provides a UV/visible range from 220 nm to 830 nm.

Preprogrammed methods allow a quick start, and a guided software process minimizes errors. Results (>1000) can be stored directly in the device, and data can be directly transferred to a PC or USB drive. BioSpectrometer units are compatible with standard size cuvettes and microliter cells. Two year warranty.

Applications include:
- Extinction measurement for one or several wavelengths
- Recording of wavelength scans
- Methods with analysis factor, standard or standard series
- Two-wavelength method with subtraction and division analysis
- Concentration via standard series (including linear and non-linear regression, linear interpolation)

4061-3517 $8180.00

NEW!

4061-3610

Eppendorf BioSpectrometer® kinetic

The new BioSpectrometer kinetic has all of the features of the BioSpectrometer basic. In addition, the cuvette shaft can be temperature controlled for direct determination of enzyme and substrate kinetics without additional accessories. Two year warranty.

- Temperature controlled cuvette shaft, +20°C to +42°C in 0.1°C increments
- Pre-programmed and freely programmable kinetics methods
- Retrospective modification of the time window for regression analysis

4061-3610 $9830.00

4095-2006

Eppendorf BioPhotometer® plus

The BioPhotometer plus, a compact UV/Vis photometer, has 9 fixed wavelengths optimized for routine applications in molecular biology, biochemistry, and cell biology labs. The photometer provides instant access to 32 routine methods, of which 9 methods are freely programmable. Measuring wavelengths include 230, 260, 280, 340, 405, 490, 550, 595, and 650 nm. The BioPhotometer is compatible with standard size cuvettes and microliter cells. Requires no PC to operate and stores the last 100 results and corresponding data. Two year warranty.

See page B17 for information on cuvettes.

4095-2006 $5820.00

I

SUPPLIES, ORGANIZERS, AND SAFETY PRODUCTS

HAZARD PROTECTION

BIOHAZARD WASTE CONTAINERS

WEIGH BOATS

ALCOHOL WIPES

SPATULAS

ACRYLIC SHIELDS

ORGANIZERS AND BINS

RADIATION SAFETY

CONTENTS

General Supplies
Weigh Boats.....I2
Spatulas.....I2
Laboratory Wipes.....I2
Multipurpose Sealing Films and Foils.....I3
Dispensers for Films and Foil.....I3
Organizers and Bins.....I3-I4

Radiation Safety
Acrylic Shields.....I5
Waste and Storage Containers.....I6-I7

Hazard Protection
Biohazard Waste Containers.....I8
High Temperature Gloves.....I8

USA SCIENTIFIC®

Weigh Boats

Flexible polystyrene boats have a shallow shape with a wide, flat bottom that resists tipping. Smooth inner surfaces minimize sample loss. 500/pack.

2347-1427	Small, 46 x 46 x 8 mm (A)	$45.25
2347-1426	Medium, 85 x 85 x 24 mm (B)	$64.50
2347-1425	Large, 140 x 140 x 22 mm (C)	$102.25

smartSpatula®

Eliminate cross contamination with disposable polypropylene spatulas. Standard and large spatulas have one flexible spoon shaped end and one sharp end. The antistatic microSpatula™ is recommended for small samples or narrow containers.

9101-7211	Standard, 210 mm, blue, 300/pack	$27.50
9101-7231	Antistatic microSpatula™, 140 mm, natural, 300/pack	$21.00
9101-7241	Large, 310 mm, green, 150/pack	$30.50

Laboratory Wipes

Convenient, pre-moistened laboratory wipes in resealable packs make decontamination and cleanup easy. The durable proprietary fabric is 100% biodegradable and will not scratch optical surfaces. Great for cleaning pipettes, cuvette surfaces, PCR machines, water baths, etc.

Alcohol wipe has a 70% isopropyl alcohol/30% water mixture that evaporates completely with no residue. Surfactant wipe breaks up grease and grime and is handy for cleaning bench tops, keyboards, instrument panels, etc.

9197-1000	Alcohol wipes, 40/pack	$11.00
9197-2100	Surfactant wipes, 40/pack	$11.00

See page D28 for a selection of ice buckets and pans.

DuraSeal™ Cling

Strong, stretchable film forms an airtight barrier when stretched across openings. Will cling to itself and to glass vessels and can stretch 300-400% before breaking or tearing. Clear film is UV transparent and has no liner paper to remove. Greater heat and chemical resistance makes it useful for more applications than paraffin based films. One roll/pack.

9172-1150	1″ W x 150′ L	$27.00
9172-2500	2″ W x 500′ L	$48.00
9172-4500	4″ W x 500′ L	$83.00
9172-5150	5″ W x 150′ L	$75.00

	DuraSeal Cling	Other Films (Paraffin Based)
Temperature Resistance	Softens above 100°C	Softens at or below 68°C
Chemical Resistance	Most solvents	Dissolves in chloroform, phenol, ethyl, benzene, etc.
Elongation	300-400%	200%
Transparency	Clear, UV transparent	Translucent
Packaging	No liner paper	Liner paper must be removed

Small Foil Rolls and Dispenser

Convenient dispenser eliminates the need for wasteful giant foil rolls and expensive precut squares. Just load a small roll of foil, select the length you need, and press down on the cover to cut. Dispenser measures 112 x 19 x 10 mm. Rolls (sold separately) are six inches wide by 500 feet long.

3023-5202	Foil dispenser only	$67.00
3023-5362	6-in wide foil roll	$18.25

3023-5202

3023-5362

Film Dispenser

ABS plastic dispenser has a sliding blade for clean cuts. Holds one or two 2″ Parafilm® rolls, one 4″ roll, or a variety of labels and Tough-Tags®. Dispenser measures 6.7″ x 4.7″ x 5.7″. Not for use with DuraSeal Cling film.

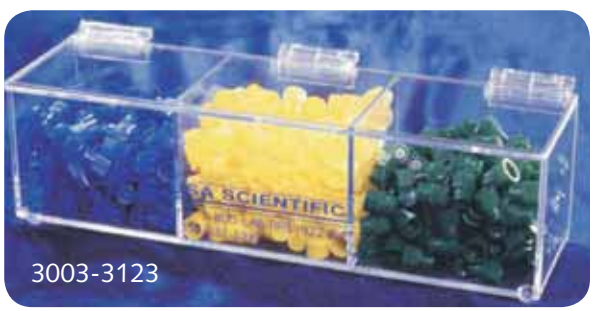
3010-1680	Dispenser	$49.50
3010-1687	Replacement blades, 5/pack	$8.50

3010-1680

Mini Storage Bin

Small acrylic storage bin has three separate compartments with a common hinged lid. Ideal for small tubes, caps, etc. Measures 12″ W x 3¾″ D x 3½″ H. Shipping weight: 2 lbs.

3003-3123		$62.75



3003-3123

Prices and products subject to change without notice. See www.usascientific.com for current information.

Lab Wipes Holder

Clear acrylic holders are available in two sizes. The small holder (4¾" W x 3¼" D x 5¼" H) includes heavy-duty magnetic tape and two wood screws for hanging. The larger holder (12.6" L x 5" W x 3.8" D) includes screws only. Holders work with Kimwipes® and other brands.

3081-0000	Small wipes holder	$31.75
3081-0002	Large wipes holder	$43.50

Vertical Storage Bin

Three compartment acrylic bin has a hinged lid at the front for easy access and dust-free storage. The top hinged lid opens for filling. Each compartment holds approximately 200 microcentrifuge (1.5 ml) tubes. Measures 11½" W x 6½" D x 8½" H. Shipping weight: 4 lbs.

3082-0300	$92.00

Tilt Bin® Organizer

Five compartments store tubes, vials, caps, and other small items. Each holds approximately 100 microcentrifuge (1.5 ml) tubes. Removable drawers tilt forward for dispensing. May be wall mounted or stacked with additional units. Acrylic and polystyrene; measures 23⅜" W x 5¼" D x 6½" H. Shipping weight: 5 lbs.

1923-5605	$29.50

Dispensing Station

Save bench space and organize gloves, film, wipes, and other items for easy access. Acrylic rack measures 10.4" W x 5.4" D x 17.3" H.

3023-4523	$135.25

Radiation Safety Shields

Beta shields are made from ½" thick premium grade ultra clear acrylic to provide protection from strong beta emitters such as ^{32}P and weak beta emitters such as ^{3}H, ^{14}C, and ^{35}S. (Please consult your radiation safety officer for your institutional guidelines.)

USA Scientific beta shields are designed to exceed recommended levels of protection from beta emitting isotopes. They do not provide protection from secondary x-rays (Bremsstrahlung) or gamma rays.

Other sizes and styles of shields can be made to your specifications. For more information, please call 800-522-8477 or complete our on-line custom acrylics form.

Angled Shield

Large 12" base keeps hot samples off the lab bench. The front portion is angled back 10° for increased stability. Measures 12" W x 12" D x 18" H x ½" thick. Shipping weight: 10 lbs.

3042-0000 $109.75

Hourglass Shield

Full size shield has a tapered midsection for easier access to samples. The front portion is angled back 12° over the six inch deep base. Measures 12" W x 6" D x 18" H x ½" thick. Shipping weight: 9 lbs.

3042-1000 $109.75

Dual-Angle Shield

The top portion of this shield is angled back 50° for easier sample observation. Measures 12" W x 7" D x 15¾" H x ½" thick. Shipping weight: 9 lbs.

3043-0000 $141.75

To maintain the optimum condition of acrylic shields, clean with a mild liquid dish detergent only. To disinfect, use 10% bleach followed by a rinse with purified water. Do not use alcohol - alcohol will cause cosmetic surface damage.

Made-to-Measure and Custom Acrylics

USA Scientific makes acrylic racks, boxes, shields, and other items. We can create a product for you or modify one of our standard items. Locks can be added to most containers as a custom order (minimums may apply). Locking options typically include two combination locks and a 12" long steel cable. For more information, please call 800-522-8477 or complete our on-line custom acrylics form. Price estimates provided at no charge.

Prices and products subject to change without notice. See www.usascientific.com for current information.

Tiplet® Tip Disposal Boxes

HALF INCH 1/2 THICK

Convenient bench top pipet tip bins. Flip the small white lid open to discard a tip. The larger clear lid opens for easy removal of a full tip bag. Disposal bags sold separately.

Tiplet for single channel pipettes measures 5″ W x 5″ D x 5″ H (ID), 6″ W x 6½″ D x 8⅛″ H x ½″ thick (OD). Tiplet for multichannel pipettes measures 6¾″ W x 5¾″ D x 4¾″ H (ID), 7¾″ W x 7¼″ D x 7⅞″ H x ½″ thick (OD). Shipping weight for each unit is 5 lbs.

3056-6000	Tiplet for single channel pipettes	$112.00
3056-7000	Tiplet for multichannel pipettes	$112.00

Tiplet boxes may be customized with other measurements or locks. Call 800-522-8477 or see www.usascientific.com for more information.

Disposal Bag

Polyethylene bag for use inside Tiplet boxes. One pack contains 25 bags. Shown inside Tiplet boxes in photos. 5 mil thick.

3056-6082 $116.00

One Gallon Container

Tall acrylic box has a hinged lid that extends ½″ at the front for easy opening. Measures 7″ W x 7″ D x 12″ H (ID), 8″ W x 8½″ D x 13⅜″ H x ½″ thick (OD). Locking lid option available as a custom order. Shipping weight: 12 lbs.

3058-8000 $187.00

Large Waste Container

Large acrylic container holds contaminated waste bags or bins. The wheels are attached to a removable acrylic base. Store the container without the wheels for low clearance areas. Hinged lid extends ½″ at the front for easy opening. Measures 14¼″ W x 14¼″ D x 30½″ H (OD) by ½″ thick. Locking lid option available as a custom order. Shipping weight: 48 lbs.

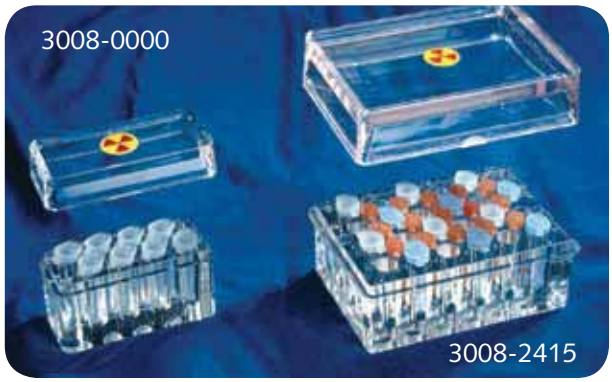
3014-1408 $641.25

To maintain the optimum condition of acrylic shields, clean with a mild liquid dish detergent only. To disinfect, use 10% bleach followed by a rinse with purified water. **Do not use alcohol** – alcohol will cause cosmetic surface damage. USA Scientific beta shielding acrylics are designed to exceed recommended levels of protection from beta emitting isotopes. They do not provide protection from secondary x-rays (Bremsstrahlung) or gamma rays.

Acrylic Racks

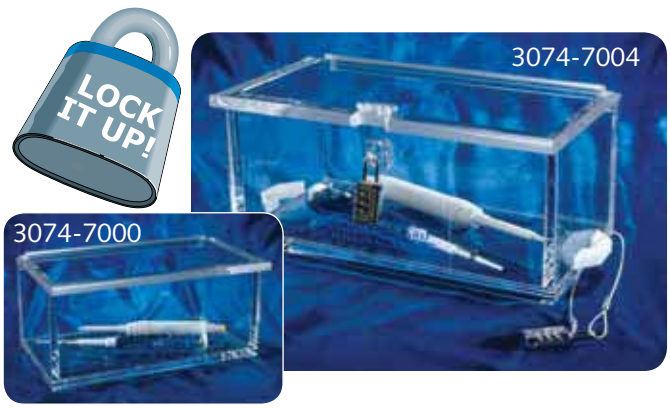
Clear acrylic racks for use with weak beta emitters (^{3}H, ^{14}C, and ^{35}S) will hold most 1.5, 2.0, and 0.5 ml tubes. The lids have stacking rims for easy handling. Safe for storage at -20°C. Eight-place rack measures 3½" L x 1½" W x 2¼" H x 5/16" thick and is not intended for use with screw cap tubes. Larger 24-place rack holds 1.5 and 2.0 ml tubes (24) and 0.5 ml tubes (15) and measures 5 1/16" L x 3 11/16" W x 2 13/16" H x 3/8" thick.

3008-0000	8-place rack	$30.25
3008-2415	24-place rack	$44.50



Large Hinged Box

Isolate hot instruments, samples, or waste in these ½" thick hinged acrylic boxes. Suitable for long-term storage of beta emitters at temperatures as low as -20°C. The locking box includes two combination locks and a 12" steel cable. Locks may be different from those shown.

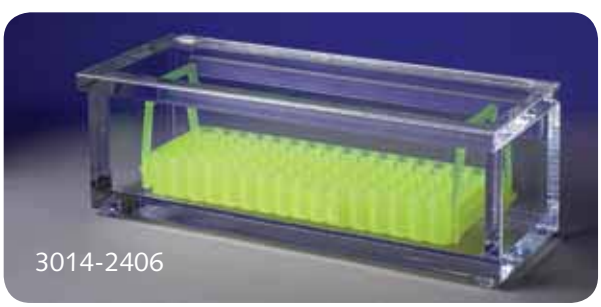


CATALOG NO.	DESCRIPTION	W x D x H (ID)	W x D x H (OD)	WEIGHT	PRICE
3074-7000	Large hinged box	12" x 6" x 5"	13" x 7½" x 6"	10 lbs.	$121.75
3074-7004	Large hinged box with locks	12" x 6" x 5"	14¾" x 7¾" x 6¼"	11 lbs.	$176.00

80-Place Box

Flexible hinges withstand -20°C freezer storage. Removable polypropylene rack with handles holds 1.5 or 2.0 ml tubes (80) or 0.5 ml tubes (60). One-half inch thick acrylic, measures 11¼" W x 4¾" D x 4" H (OD). Shipping weight: 6 lbs.

3014-2406 $101.50



Prevent Unauthorized Handling

Locking containers provide additional security when items are outside your direct line-of-sight. Sizes can be made to your specifications. Please see page 15 or our website www.usascientific.com for additional information on custom products.

Biohazard Disposal Bag and Holder

Small biohazard bag and holder are perfect for collecting tips and tubes on the bench top or in the fume hood. The holder keeps bags open for easy access. Epoxy-coated, steel wire holder is autoclavable. Measures 91 x 128 x 214 mm.

Biohazard bag is ideal for processing materials that require autoclaving prior to disposal. Printed with biohazard warning symbol and precautions in English, Spanish, and French. These 1.5 mil thick polypropylene bags have an indicator patch that darkens when autoclaved. Autoclavable to 250°F (121°C). Measures 215 x 300 mm.

2747-1033	Biohazard bag, 1000/case	$156.25
2747-1444	Biohazard bag holder	$20.75

Biohazard Disposal Pouches & Stand

Safely contain sharp-edged objects for disposal. 10 mil thick paperboard container has both English and Spanish instructions printed on the back. Measures 140 x 330 mm. Epoxy-coated steel wire holder is autoclavable. Measures 98 x 119 x 207 mm.

2747-2347	Biohazard pouches, 100/pack	$75.75
2747-2342	Biohazard pouch holder	$18.75

8710-3105

8710-3106

High Temperature Gloves

Soft, pliable terry cloth gloves provide heat protection up to 450ºF (232ºC). Use for removing items from ovens and autoclaves. Short glove has a 5" gauntlet and a total length of 13". Long glove has an 11" gauntlet and a total length of 20". Machine washable. 2/pack.

8710-3105	Terry cloth gloves, short	$44.00
8710-3106	Terry cloth gloves, long	$49.75

COMPANY INFORMATION AND INDEX

J

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