



ErgoOne® Multichannel Pipette
Page 6

TipOne®
Filter Tips
Pages 12-13



TempPlate® PCR Plates
Pages 14

Precise Solutions® for Delivering Discoveries

INTERNATIONAL

MixerHC

Precision mixing with temperature control

- ✓ Control temperature, speed, and mixing intervals
- ✓ Heat to 99°C or cool 13°C below room temperature
- ✓ Short mix button for quick, instant mixing
- ✓ Digital display for precise control
- ✓ Program two consecutive, different runs when samples require special care
- ✓ Interval feature automatically alternates mixing and stationary cycles

Increase the reproducibility of your temperature-dependent reactions for better yields and more consistent results. Control block temperature and mixing speed/intervals simultaneously and precisely with the Mixer HC.

Mixing speed is block dependent: 300-1400 rpm for 1.5 mL, 2.0 mL, and cryogenic tubes; 300-1500 for 0.5 mL tubes; and 300-750 for 5 mL, 15 mL, and 50 mL tubes. Plates weighing 200 grams or less may be mixed at 300-1400 rpm; above 200 grams use 300-800 rpm. Blocks for microcentrifuge tubes include a polycarbonate rack for quick transfer of all 24 tubes at once.



Mixer HC shown with 1.5 mL tube block and rack.



Blocks are available for a variety of tubes and multiwell plates.

Specifications

Mixing speed	300-1500 rpm (block dependent)
Orbit diameter	3 mm
Heating rate	Approx. 5°C/min
Cooling rate (above room temp)	2 to 3°C/min
Cooling rate (below room temp)	0.5 to 1.0°C/min
Ambient temperature	4 to 35°C
Relative humidity	70% max
Dimensions (W × D × H)	220 × 250 × 125 mm
Weight base unit	7 lbs. (3.2 kg)
Mains connection	100 to 240 V, 50 to 60 Hz
Power consumption	90 W

8012-0000 Mixer HC (without block)

Blocks and Adapters

- 8012-0010 24 × 0.5 mL microcentrifuge tube block and ISO rack
- 8012-0011 24 × 1.5 mL microcentrifuge tube block and ISO rack
- 8012-0012 24 × 2.0 mL microcentrifuge tube block and ISO rack
- 8012-0013 24 × 12 mm diameter tube block
- 8012-0014 8 × 5.0 mL conical centrifuge tube block
- 8012-0015 8 × 15 mL conical centrifuge tube block
- 8012-0016 4 × 50 mL conical centrifuge tube block
- 8012-0017 24 × 1.5-2.0 mL cryogenic tube block
- 8012-0018 Multiple/deep well plate, with lid
- 8012-0019 96 × 0.2 mL PCR adapter*

*Must be used with the 8012-0018 block

Applications

- ✓ cDNA synthesis
- ✓ Enzyme reactions (restriction digest, ligation, proteinase-K-digestion)
- ✓ Denaturation of DNA, RNA, or proteins
- ✓ Labeling of DNA, RNA, or proteins
- ✓ Cultivation of bacteria in microcentrifuge tubes, centrifuge tubes, and deep well plates
- ✓ Transformation of bacteria and plasmids
- ✓ Resuspension of pellets

USA Scientific Microplate Centrifuge

- ✓ Quickly spins down droplets in PCR plates
- ✓ Small footprint takes up little benchtop space
- ✓ Unique rotor design prevents sample spillage
- ✓ Accepts all popular PCR plates

Microplate centrifuge is ideal for a quick spin down of PCR plates, PCR tubes, and microtiter plates. Optimized for spinning fluids down from tube caps and walls, the microplate centrifuge ensures all substances are at the bottom for proper concentrations and improved yield. Easily access plates in the unique rotor chamber. Simply open the lid and insert the plates, close the lid and turn the device on. The rotor motion will begin when the lid is closed and accelerates to the maximum speed of 2,550 rpm. Opening lid will stop the spin in 4 seconds. The small size saves space on the bench or under the hood. An adapter carrier is available separately for 0.2 mL PCR strips and tubes.

Includes rotor and two plate holders. Weight: 9 lbs.
Measures 9.2" L × 10.2" W × 7.75" H. Two-year warranty.

2532-2000 Microplate Centrifuge for two PCR or microplates
2532-2002 Tube Adapter, holds 96 0.2 mL or PCR strips. 2/pk

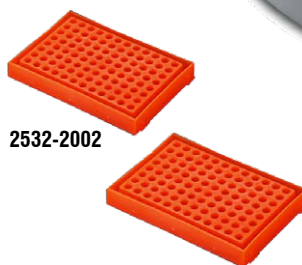


1402-9800



Need high performance multiwell PCR plates?
See page 14 for more information.

2532-2002



The Personal Minicentrifuge

- ✓ Quickly start by pressing down the lid
- ✓ One Touch STOP button for super-fast breaking
- ✓ Easy rotor change - no tools required!

Take a quick spin with your own Personal Minicentrifuge! The sleek design and compact footprint is the ideal addition to your workbench or portable enough for use in a fume hood. It's your perfect lab partner for quick spin downs of condensate, vortexed or thawed samples. The Personal Minicentrifuge is ideally suited for applications requiring relatively low centrifugal forces, such as microfiltration and cell separation.

8030-5000 Personal Minicentrifuge



The Personal Minicentrifuge measures 5.1" W × 6.3" D × 4.4" H and weighs 2.5 lbs.

Included with your Personal Minicentrifuge unit are a PCR strip rotor, a microcentrifuge tube rotor, a power adapter with 4 exchangeable international plugs (EU, UK, US, and AUS), and adapters for both 0.5 mL and 0.2 mL tubes.





Mini dry bath blocks

Thermal-Lok™ Mini Dry Baths

Compact units with digital control. Choose the original mini for 5°C above ambient to 100°C or the new Mini Dry Bath HC that cools to 25°C below ambient and heats to 100°C. Each includes a clear polycarbonate lid and a block lifter with insulated handle. Two-year warranty. See usascientific.com for additional blocks.

- 2520-1001 Mini Dry Bath (without blocks)
- 2530-1001 Mini Dry Bath HC (without blocks)
- 2515-1520 15-place block for 1.5/2.0 mL tubes
- 2515-4015 15-place block for 1.5 mL tubes only
- 2540-4020 40-place (5x8) block for 0.2 mL PCR tubes
- 2506-4050 6-place block for 5.0 mL tubes (17 mm diameter)



Thermal-Lok™ Digital Dry Bath

Dry heat bath provides precise, stable temperatures from 5°C above ambient to 150°C. Large digital display and convenient 1-999 minute timer. Accuracy $\pm 0.2^\circ\text{C}$; increments 0.1°C . Includes a block lifter with insulated handle. Two-year warranty. See usascientific.com for additional blocks.

- 2530-1102 Two position dry bath with two 1.5/2.0 mL blocks*
- 2510-1102 Two position dry bath (without blocks)
- 2520-0000 24-place block for 1.5/2.0 mL tubes
- 2524-1500 24-place block for 1.5 mL tubes only
- 2512-0000 12-place block for 15 mL tubes
- 2505-0000 5-place block for 50 mL tubes

***Includes 2 Blocks For the Price of 1!**
Get the Thermal-Lok #2530-1102 for extra savings!



2D Rocker

- ✓ Variable rocker tilts from level to $\pm 30^\circ$
- ✓ Adjustable speed from 2-30 rpm
- ✓ Non-skid, flat rubber mat

Convenient platform size (14" \times 12") accommodates a wide variety of vessels for gel staining, blotting, and more. For cold rooms or the bench top (4° to 45°C). Add a stacking tray for more capacity. Brushless motor; two-year warranty.

- 2527-2000 Variable Speed 2D Rocker, 115V
- 2527-2007 Stacking tray with flat mat (2D Rocker only)



3D Rocker

- ✓ 3D rotating motion
- ✓ 0-30° manual tilt adjustment
- ✓ Includes flat and dimpled mats

Popular platform size (12" \times 12") and two mat options provide versatility for mixing in large or small vessels at speeds from 2-30 rpm. For cold rooms or the bench top (4° to 45°C). Add a stacking tray for more capacity. Brushless motor; two-year warranty.

- 2523-3230 Variable Speed 3D Rocker, 115V
- 2523-1007 Stacking tray with flat mat (3D Rocker only)
- 2523-1073 Stacking tray with dimpled mat (3D Rocker only)

ErgoOne^{FAST}

PIPETTE CONTROLLER

- ✓ Fits pipets from 1 to 100 mL
- ✓ Touch-sensitive speed control with gravity drain
- ✓ Comfortable grip and weight
- ✓ Provides hours of use between charges
- ✓ Battery life indicator
- ✓ Fills a 25 mL pipet in less than 4 seconds
- ✓ Weighs less than 5.7 ounces

ErgoOne^{FAST}® cordless pipette controller provides the power and responsiveness you need. Whether working with large or small volumes, or standard or viscous solutions, ErgoOne^{FAST} allows accurate, precise measurements with easy two-speed fingertip control. Choose from fast transfers, slow and controlled aspirations and deliveries, or a combination of speeds. There are no dials to adjust, and the gravity-drain feature releases liquids smoothly without using battery power.

The aspirating cone is autoclavable and the silicone pipet holder accepts pipets from 1 to 100 mL. ErgoOne^{FAST} is supplied with a wall mount holder, two 0.45 μ m filters, one 0.2 μ m filter, rechargeable battery, and charger. Two-year warranty.

7166-0010 ErgoOne^{FAST} controller



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. Sterile, non-cytotoxic, and certified free of detectable RNase, DNase, and pyrogens.

1070-1210 1 mL, 0.1 mL graduations, 50/sleeve, 1000/case
 1072-0510 2 mL, 0.01 mL graduations, 50/sleeve, 500/case
 1075-0110 5 mL, 0.1 mL graduations, 50/sleeve, 200/case
 1071-0810 10 mL, 0.1 mL graduations, 50/sleeve, 200/case
 1072-5410 25 mL, 0.2 mL graduations, 25/sleeve, 200/case
 1057-1010 50 mL, 0.5 mL graduations, 25/sleeve, 100/case



Graduated Reservoirs

White polystyrene reservoirs have angled sides with graduations. A narrow, V-shaped micro-channel at the base improves recovery of small volumes. Strong sides and wide bases provide stability and easy handling. Measures 150 × 63 × 27 mm. More package options available online.

- ✓ Ideal for multi-channel pipettes
- ✓ Corner pour spouts help avoid spills when emptying

1930-2230 25 mL, Graduated, White, Individually Wrapped, Sterile, 100/pack
 1930-2530 50 mL, Graduated, White, Individually Wrapped, Sterile, 100/pack
 1930-1030 100 mL, Graduated, White, Individually Wrapped, Sterile, 100/pack



ErgoOne®

Pipetting optimized



- ✓ Plunger forces maximize control with minimal stress
- ✓ No-Drift™ volume lock
- ✓ Comfortable grip and weight
- ✓ Centrally located 4-digit display
- ✓ Autoclavable

ErgoOne® pipettes combine researcher-requested features, precision engineering, and ergonomic principles for optimum performance. The light, balanced weight reduces fatigue, and the curved support hook and body allows a natural, relaxed grip. Tip application requires minimal pressure to achieve complete sealing while maintaining low ejection forces. ErgoOne 8- and 12-channel pipettes also have cascading tip ejector sleeves that distribute forces incrementally for less strain when removing tips.

ErgoOne pipettes are available in a full selection of volume ranges for maximum precision and accuracy. The 2-20 μL is offered in two formats – a standard tip cone that accepts 200 μL tips and an ultra-micro tip cone that accepts 10 μL or 10/20 μL style tips (not shown). All single channel ultra-micro pipettes have stainless steel tip cones for increased durability.

ErgoOne pipettes will withstand the rigors of daily laboratory use, are fully autoclavable, and may be calibrated in your lab. The exterior is made with UV- and chemical-resistant polypropylene. All ErgoOne pipettes have a three-year warranty. For superior performance, use the TipOne® pipette tips. See pages 8-13.



Eight Channel

- 7108-0510 0.5-10 μL , red plunger cap
- 7108-1100 10-100 μL , yellow plunger cap
- 7108-3300 30-300 μL , green plunger cap



Ejection forces are reduced via the cascading ejector sleeve that initiates release of 4 tips at a time.

O-rings on 100 μL and 300 μL multichannel pipettes reduce tip cone wear and provide better sealing and tip compatibility.



Twelve Channel

- 7112-0510 0.5-10 μL , red plunger cap
- 7112-1100 10-100 μL , yellow plunger cap
- 7112-3300 30-300 μL , green plunger cap



Curved ergonomic support and No-Drift volume lock



4-digit display for increased accuracy

Schedule a demo in your lab! Email info@usascientific.com or call 1-800-522-8477.



Pipetting optimized.



Single Channel

7100-0125	0.1-2.5 μ L, metal ultra-micro tip cone, red plunger cap
7100-0510	0.5-10 μ L, metal ultra-micro tip cone, red plunger cap
7100-0221	2-20 μ L, metal ultra-micro tip cone, red plunger cap
7100-0220	2-20 μ L, standard tip cone, yellow plunger cap
7100-1100	10-100 μ L, yellow plunger cap
7100-2200	20-200 μ L, yellow plunger cap
7110-1000	100-1000 μ L, blue plunger cap
7150-5000	500-5000 μ L, purple plunger cap



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



Interested in reducing your plastic footprint?

The Eco-friendly design of the TipOne® Filter Tip Refills uses less plastic when dropped into a TipOne rack. See more information on pages 8-13.



1999-0006

Angled Pipette Stands

Store single channel and multichannel pipettes neatly on the same stand!

White acrylic stands come in 3, 5 and 6-place sizes. Unique vertical slots allow multichannel manifolds to rest inside the stand, saving space for other pipettes. Sturdy, 5 mm thick, white acrylic stand has non-skid feet.

1999-0003	3-place angled pipette stand, with 1 multichannel position
1999-0005	5-place angled pipette stand, with 2 multichannel positions
1999-0006	6-place angled pipette stand, with 4 multichannel positions

TipOne®

- ✓ Made in the USA
- ✓ Reduce lab plastics with easy-to-use refills
- ✓ Reuse long-life racks
- ✓ Nesting refills save space and plastic



Racks are designed for easy storage and are easy to refill.



Exceptional sample recovery for everyday applications

digital testing for variations in the resulting tips are at higher tolerances than typically found in the aeronautical industry. Packaging details are also meticulously thought-out. Each wafer is laser-marked for easy identification that won't wear off with frequent use or exposure to solvents. The tips, wafers, and racks are designed to minimize plastic usage, while maintaining easy to use ergonomic features that facilitate frequent and repetitive use. Attention to these details is the difference between a pipette tip and a TipOne tip.

Improving global health is a core value of USA Scientific and that means caring for our environment. Developing sustainable practices is important to us. TipOne is manufactured using 100% wind powered energy in our Connecticut production facility. TipOne refills use up to 63% less material compared to new racks. Additionally, the wafers and racks are completely recyclable. TipOne products are now ACT® certified. These labels show the environmental impact of lab products. Find out more about what this means at usascientific.com/act.

A TipOne tip is not just a piece of plastic. A tip could be the tool that helps you discover the next cutting-edge scientific breakthrough. It could help solve a decades old crime that finally brings a family closure. It could be instrumental in the diagnosis that saves a child's life. USA Scientific is determined to make your TipOne tip reliable and precise, every time. Your work is too important for anything less than the highest quality.

With TipOne® products, you can feel the USA Scientific passion for precision. The process starts in our wind energy powered production facility in Enfield, Connecticut. Pure virgin polypropylene resin pellets are used for the highest quality end product, without use of clarifiers or additives. These pellets are vacuum pumped into an ISO Class 7 cleanroom that uses HEPA filtration systems to maintain air quality. Here, they are melted and molded into the precisely engineered TipOne forms. Rigorous

 ACT. <small>The Environmental Impact Factor Label</small>		US
USA Scientific TipOne® 10 µl Natural Pipette Tips, Racks <small>Enfield, Connecticut, United States SKU 1111-3800</small>		
Environmental Impact Scale Decreasing Environmental Impact		
1		10
Manufacturing		
Manufacturing Impact Reduction	3.0	
Renewable Energy Use	Yes	
Responsible Chemical Management	1.0	
Shipping Impact	1.0	
Product Content	5.0	
Packaging Content	1.0	
User Impact		
Energy Consumption (kWh/day)	N/A	
Water Consumption (gallons/day)	N/A	
Product Lifetime	4.2	
End of Life		
Packaging	7.3	
Product	5.6	
Environmental Impact Factor:		28.1
Label Valid Through:		March 2024
		act.mygreenlab.org

Find out more about ACT® certified TipOne products on usascientific.com/act

TipOne® is the original easy-to-load, refillable tip system that saves space and reduces waste. They are reusable, easy to refill, and will last through repeated autoclaving cycles. Refills are sealed in plastic; we don't use cardboard, paper, or other uncharacterized materials as tip containers.

MADE IN USA



Refill wafers drop into racks easily and snap into place.



Recessed tip compartments reduce movement for easier tip application.



Long-life hinges open 120° for easy access.



Reduce leftover plastic with TipOne refills. Reuse racks and recycle refill wafers and shells.



10 µL

10 µL XL

10 µL and 10 µL XL TipOne tips are supplied in red wafers and fit pipettes with ultra-micro tip cones.

10 µL XL tips flex and are 9.5 mm longer than 10 µL tips for easier use inside taller tubes and deep well plates. Red wafers.



200 µL Beveled

200 µL Profile Point™

200 µL tips are available with Profile Point™, beveled, or original tip orifices. All are the same length. Profile Point tips are clearer due to the thinner Profile Wall™ construction. Yellow wafers.



300 µL

300 µL tips allow generous clearance between the pipette tip cone and the full volume meniscus for greater protection from cross-contamination. Low application and ejection forces make multichannel use easier. 300 µL tips can also be used on many 100 µL and 200 µL pipettes. Green wafers.



1000 µL

1250 µL XL

1000 µL and 1250 µL XL tips are supplied in blue wafers. 1250 µL XL tips are 15.3 mm longer than 1000 µL tips. Both sizes are well stabilized in the racks for easy application and are multichannel compatible. Blue wafers.

Ways to save with

TipOne®



Stacks

Bags

Racks

Refills



All refills nest, including long and narrow tips. Nesting saves space during storage and transport and reduces packaging materials.

Tamper-evident, resealable bags have a self-standing base and stay upright during storage or use.



		Racks 10 racks of 96 (960 tips)	Refills 10 wafers of 96 (960 tips)	Stacks 5 layers of 192 (960 tips)	Bags (1000 tips)
10 μ L graduated	●	1111-3800	1111-3700	1111-3200	1111-3000
10 μ L graduated, sterile	●	1111-3810	--	1111-3210	--
10 μ L XL, graduated	●	1110-3800	1110-3700	--	1110-3000
200 μ L beveled	●	1111-1800	1111-1700	1111-1200	1111-1000
200 μ L beveled, sterile	●	1111-1810	--	1111-1210	--
200 μ L Profile Point™, graduated	●	1110-1800	1110-1700	1110-1200	1110-1000
300 μ L graduated	●	1110-9800	1110-9700	--	1110-9000
1000 μ L graduated, blue	●	1111-2821	1111-2721	--	1111-2021
1250 μ L XL, graduated	●	1112-1820	1112-1720	--	1112-1020

10 μ L XL tips fit most ultra-micro pipettes and ErgoOne® 20 μ L with ultra-micro tip cone. 1250 μ L XL tips fit most 1000 μ L pipettes. Choose beveled 200 μ L tips for Eppendorf® Research® plus 100 μ L multichannels.



All ultra low retention tips have orange wafers and are identified as "RPT".



Comparison of a standard tip (top) after pipetting with viscous sample and with TipOne RPT (bottom). Sample retention is dramatically reduced when using TipOne RPT.

TipOne® RPT

Repel-Polymer Technology

- ✓ Ultra low retention
- ✓ No interference with samples
- ✓ Retains integrity after autoclaving

Pure Delivery

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. TipOne RPT tips provide exceptional delivery without additives, coatings, or clarifiers that could interact with your samples. TipOne RPT is certified free of detectable RNase, DNase, DNA, and pyrogens and does not need to be autoclaved for most molecular biology applications. However, if autoclaving is necessary, our tips will remain safe and effective. Recommended applications for TipOne RPT include selected nucleic acids, proteins, antibodies, and solutions with Triton-X, glycerin, or other components that require an extremely low surface energy for complete sample release. TipOne RPT is also suitable for aqueous and other common laboratory solutions.

Easy Identification

High definition laser markings identify tip volume, lot number, "RPT", and "FILTER" (if applicable) directly on the tip wafer, eliminating the need for labels. When you refill tip racks, all of the important information stays with the tips. All tip refills are packed in a space-saving, nested format. See pages 8-13 for additional information on TipOne rack and refill formats and filter tip performance.



TipOne RPT	Racks	Refills	Filter Tips	Filter Tip Refills
Ultra low retention tips.	10 racks of 96 (960 tips)	10 wafers of 96 (960 tips)	10 racks of 96 (960 tips)	10 refill cassettes of 96 (960 tips)
10 µL graduated	1161-3800	1161-3700	1181-3810	1181-3710
10 µL XL, graduated	1160-3800	1160-3700	1180-3810	1180-3710
20 µL Profile Point™, graduated	--	--	1183-1810	1183-1710
20 µL beveled	--	--	1180-1810	1180-1710
100 µL Profile Point, graduated	--	--	1183-1840	1183-1740
100 µL beveled	--	--	1180-1840	1180-1740
200 µL beveled	1161-1800	1161-1700	--	--
200 µL Profile Point, graduated	1163-1800	1163-1700	--	--
200 µL graduated	--	--	1180-8810	1180-8710
300 µL graduated	1160-9800	1160-9700	1180-9810	1180-9710
1000 µL XL, graduated	--	--	1182-1830	1182-1730
1250 µL XL, graduated	1161-1820	1161-1720	--	--

10 µL XL tips fit most ultra-micro pipettes and ErgoOne® 20 µL with ultra-micro tip cone. 1250 µL XL tips fit most 1000 µL pipettes. Choose beveled 200 µL tips for Eppendorf® Research® plus 100 µL multichannels.

TipOne®

Filter Tips

- ✓ Proprietary UHDPE filters block >99% of aerosols
- ✓ Tip info is laser marked on each wafer
- ✓ Hinged racks can be opened with one hand



Trusted Performance

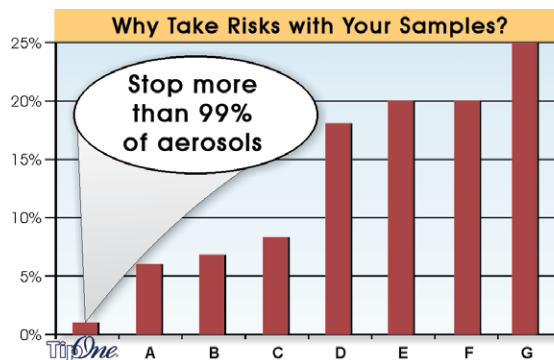
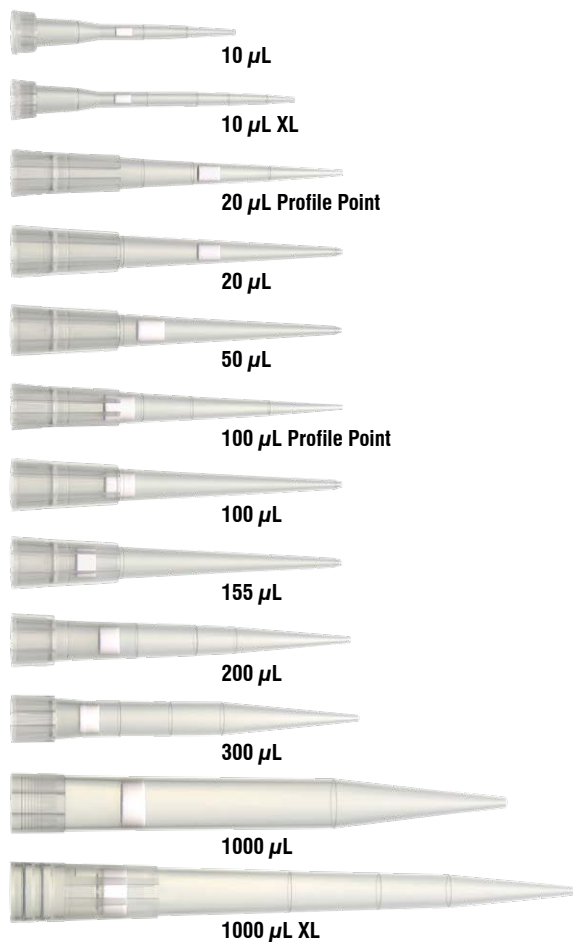
TipOne® filter tips block >99% of aerosols to prevent cross-contamination. TipOne does not contain clarifiers or processing additives (slip agents, biocides, antistatic agents, etc.) and is made from pure virgin polypropylene. With TipOne, your results will not be compromised by potentially bioactive ingredients. Sterilized and certified free of detectable RNase, DNase, DNA, and pyrogens.

Easy Identification

High definition laser markings identify volume, lot number, and "FILTER" directly on the tip wafer, eliminating the need for labels. All information is easy to read whether the rack is open or closed.

Eco-Friendly

Would you like to reduce leftover plastic but need to maintain sterility? Try TipOne sterile filter tip refill cassettes. See page 13 for information.



Laboratory tests show >99% of 100 nm particles are stopped by TipOne ultra high density filters. Other brands can allow 6-25% of aerosols to pass through to your samples. With today's sensitive procedures, can you take that risk? See usascientific.com/tipone-information for more information.

Filter Tip Racks

Sterile and certified free of detectable RNase, DNase, DNA, and pyrogens. 10 racks of 96 (960 tips).

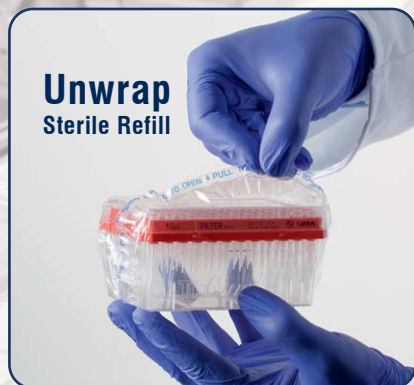
10 µL graduated (2.5, 10 µL)	1121-3810
10 µL XL, graduated (1, 5, 10, 20 µL)	1120-3810
20 µL Profile Point™, graduated (10 µL)	1123-1810
20 µL beveled	1120-1810
50 µL beveled	1120-2810
100 µL Profile Point, graduated (10, 50, 100 µL)	1123-1840
100 µL beveled	1120-1840
155 µL beveled	1124-5810
200 µL graduated (50, 100, 200 µL)	1120-8810
300 µL graduated (100, 200, 300 µL)	1120-9810
1000 µL	1126-7810
1000 µL XL, graduated (100, 250, 500, 1000 µL)	1122-1830

10 µL XL fits ultra-micro pipettes and ErgoOne® 20 µL with ultra-micro tip cone. Choose beveled 100 µL tips for Eppendorf® Research® plus 100 µL multichannels.

TipOne®

Filter Tip Refills

- ✓ Easy to use: just drop into TipOne® racks*
- ✓ Safe and clean: sterile tips are not exposed while loading racks
- ✓ Same trusted TipOne filters block >99% of aerosols
- ✓ Eco-friendly design saves up to 63% polypropylene



*Filter tip refills are for use inside current TipOne racks only. New racks have "TipOne" on the front and three indentations on each short side. Choose our Filter Tip Refill Starter Systems if you need new racks.

Looking for a truly easy filter tip refill? There is no need to line up tips or worry about accidental contact when filling racks with TipOne filter tip refill cassettes.

Easy to Use

Each filter tip refill is individually wrapped and has an easy-grip pull tab. Just unwrap the cassette, drop it into an empty TipOne rack, and remove the transfer cover. Filter tip refills are sterile and certified free of detectable RNase, DNase, DNA, and pyrogens. Autoclaving is not necessary and is not recommended.

Eco-Friendly

Refill bases and covers are #5 polypropylene and are marked for easy recycling with wafers and racks. Filter tip refills can **save up to 63%** of the plastic required for individual racks and 20% of the storage space.



The transfer cover protects the filter tips while the unwrapped refill cassette is being placed into the rack.

Filter Tip Refill Cassettes

Use with new, improved TipOne racks only.
10 refill cassettes (960 tips).

10 µL graduated (2.5, 10 µL)	1121-2710
10 µL XL, graduated (1, 5, 10, 20 µL)	1120-3710
20 µL Profile Point™, graduated (10 µL)	1123-1710
20 µL beveled	1120-1710
50 µL beveled	1120-2710
100 µL Profile Point, graduated (10, 50, 100 µL)	1123-1740
100 µL beveled	1120-1740
155 µL beveled	1124-5710
200 µL graduated (50, 100, 200 µL)	1120-8710
300 µL graduated (100, 200, 300 µL)	1120-9710
1000 µL	1126-7710
1000 µL XL, graduated (100, 250, 500, 1000 µL)	1122-1730

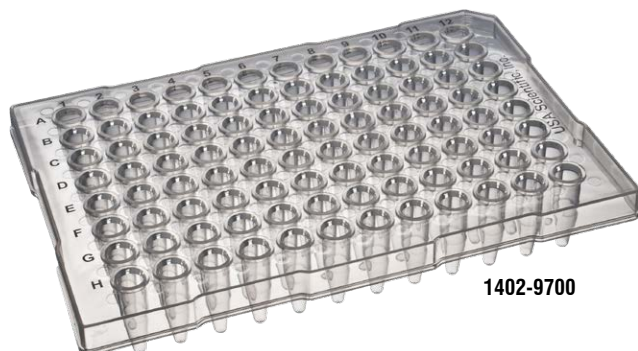
10 µL XL fits ultra-micro pipettes and ErgoOne® 20 µL with ultra-micro tip cone. Choose beveled 100 µL tips for Eppendorf® Research® plus 100 µL multichannels.

TempPlate®

PCR Plates

High visibility alphanumeric labels provide easy well identification. Manufactured in the USA from non-autofluorescent, FDA-approved virgin polypropylene. Certified RNase, DNase, DNA, and PCR inhibitor free. Tested pyrogen free.

- ✓ Real-time compatible
- ✓ Rapid, even heat transfer for consistent results
- ✓ Inner sleeves keep plates clean
- ✓ White plates can improve real-time signals
- ✓ **Ask us for FREE samples!**

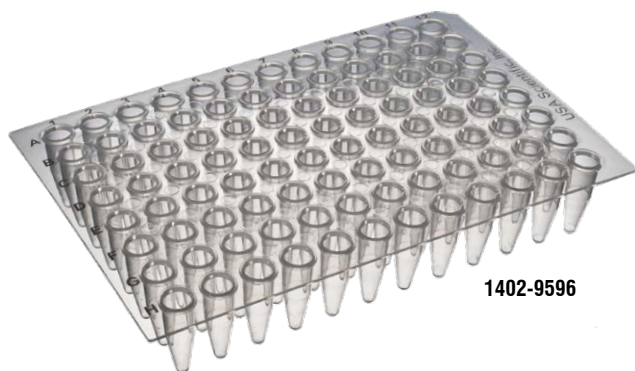


1402-9700

Semi-Skirted 96-Well Plates

Rimmed wells minimize cross contamination. Two/sleeve, ten/box.

- 1402-9990 H12 corner notch, white 0.1 mL; Low Profile, Straight Skirt. Fits the LightCycler® 480
- 1402-9700 A12 corner notch, natural 0.2 mL; Contoured Skirt. Fits most cyclers, including ABI Prism® and GeneAmp® systems
- 1402-9200 A12 corner notch, natural 0.2 mL; Straight Skirt
- 1402-9300 A12 corner notch, natural 0.2 mL; Contoured Skirt and Raised Sides
- 1402-9100 A1 corner notch, natural 0.1 mL; Low Profile, Straight Skirt, Raised Sides. Fits ABI Fast™ cyclers



1402-9596

Non-Skirted 96-Well Plates

Rimmed wells minimize cross contamination. Two/sleeve, ten/box.

- 1402-9500 H12 corner notch, natural 0.1 mL; Low Profile
- 1402-9596 A12 corner notch, natural 0.2 mL
- 1402-9598 A12 corner notch, assorted colors 0.2 mL



1402-9800

Full-Skirted 96-Well Plates

Rimmed wells minimize cross contamination. Two/sleeve, ten/box.

- 1402-9800 A12 corner notch, natural 0.1 mL; Low Profile, stackable

Full-Skirted 384-Well Plates

Rimmed wells minimize cross contamination. Choose LightCycler® style (two corner notches) or ABI® style (one notch). Ten/box.

- 1438-4600 A24 and P24 corner notches, natural
- 1438-4690 A24 and P24 corner notches, white
- 1438-4700 A24 corner notch, natural
- 1438-4790 A24 corner notch, white

ABI FAST™ and ABI Prism® are trademarks of Applied Biosystems Corporation. GeneAmp® is a trademark of Applied Biosystems LLC. LightCycler® is a trademark of Roche Diagnostics GMBH.

TempPlate®

PCR Sealing Film & Foil

All TempPlate® seals are certified free of detectable RNase, DNase, and nucleic acids. "Standard cut" film extends to the edges of the plate. The universal "inset cut" also fits plates with raised sides.

Real-Time Optically Clear Films

TempPlate RT

Non-fluorescing adhesive and an ultra-smooth plastic liner. Two end tabs; use from -40°C to 120°C. Non-pierceable, non-sterile. 100 sheets/box.

2978-2100 standard cut

2978-2700 inset cut

TempPlate RT Select

Pressure sensitive, strong silicone adhesive will not lift during repeated cycles or plate twisting and does not stick to gloves. Two end tabs; use from -80°C to 105°C. DMSO resistant. Inset cut.

2921-7800 non-sterile, 100 sheets/box

2921-7810 sterile, 50 sheets/box

End-Point (Traditional) PCR Films & Foils

- ✓ Clear films resist tearing and are easy to remove. Non-pierceable; -40°C to 120°C.
- ✓ Foils block light transmission. Pierceable; -80°C to 120°C.
- ✓ EXT films; -20°C to 120°C.

TempPlate Film

Clear polypropylene film with strong acrylic adhesive. Two end tabs; 100 sheets/box.

2921-0000 standard cut, non-sterile

2921-0010 standard cut, sterile

TempPlate XP Film

Lowest evaporation rate and best tear resistance due to flexible polyester base and thicker adhesive. Two end tabs; 100 sheets/box.

2972-2100 standard cut, non-sterile

2928-0100 inset cut, non-sterile

TempPlate Foil

Two end tabs.

2923-0100 standard cut, non-sterile, 100 sheets/box

2923-0110 standard cut, sterile, 50 sheets/box

Single Tab Foil

Non-perforated tab. Non-sterile; 100 sheets/box.

2938-4100 standard cut, full length side tab

2939-6100 inset cut, small side tab

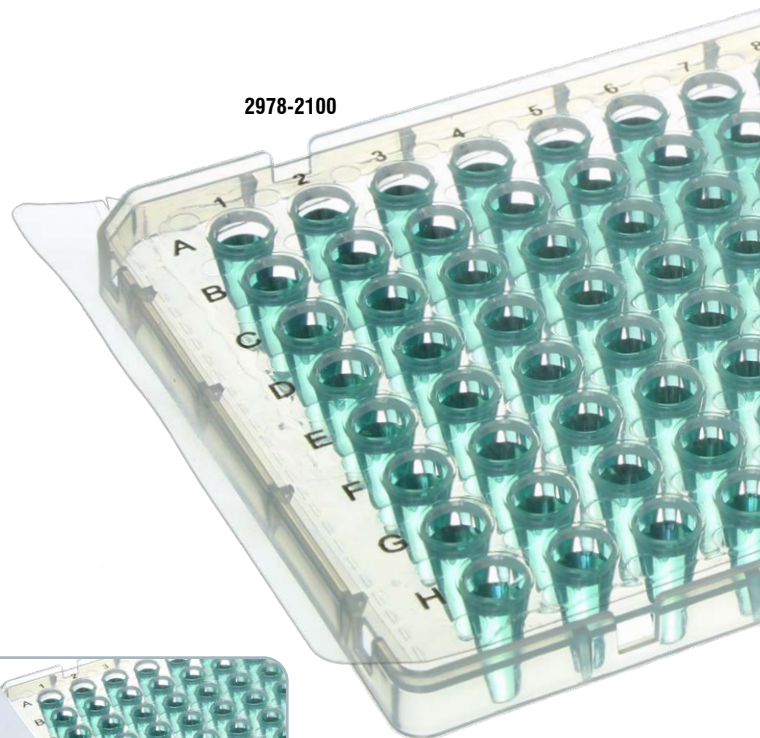
TempPlate EXT2 Film and Foil

Strong seal and DMSO resistant. Leaves no residue; great for cold storage. Chamfered corners on inset cut film and foil eliminate overhang with robotic plates. Non-sterile; 100 sheets/box.

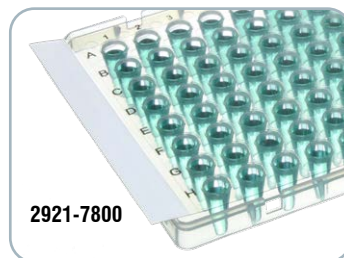
2998-0002 inset cut film, two end tabs

2998-4502 standard cut film, two end tabs

2998-7100 inset cut foil, one end tab

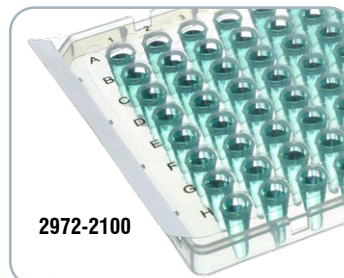


2978-2100



2921-7800

RT films are optically clear for optimal light transmission and less distortion.



2972-2100



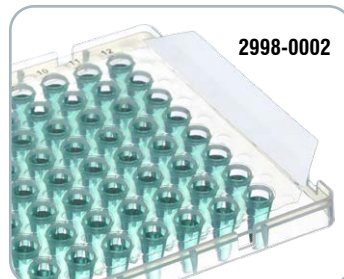
2923-0100



2938-4100



2939-6100



2998-0002



2998-7100

Need help choosing a film? For more information, see www.usascientific.com/sealing-films-and-foils

TempAssure[®] PCR Tubes

Achieve rapid, even heat transfer for consistent and effective PCR.

Conical tube walls are up to 20% thinner than other brands for faster equilibration. Flex-free strips are reinforced to resist bending while handling; pull-apart design lets you separate tubes more easily. Assorted colors include blue, green, red, violet, and yellow packed in separate sleeves. Made in the USA from non-autofluorescent virgin polypropylene. Certified free of RNase, DNase, DNA, and PCR inhibitors; tested pyrogen free.



Individual, Attached Caps

0.2 mL; optically clear flat caps, 120 strips of 8/box (960).

1402-4700 Natural, flex-free

1402-4780 White, flex-free

1402-4708 Assorted colors, flex-free

1402-3900 Natural, pull-apart

0.1 mL; optically clear flat caps, 120 flex-free strips of 8/box (960).

1402-2300 Natural, flex-free

1402-2380 White, flex-free

0.2 mL; dome caps, 120 pull-apart strips of 8/box (960).

1402-2900 Natural

1402-2908 Assorted colors



Separate Tubes and Cap Strips

Optically clear flat caps

8 per strip. 125 strips per box (1000).

1402-2500 0.2 mL, natural, pull-apart

1402-2580 0.2 mL, white, pull-apart

1402-3600 0.1 mL, natural, flex-free

12 per strip. 80 strips per box (960).

1402-2600 0.2 mL, natural, pull-apart

0.2 mL; dome caps

8 per strip. 125 strips per box (1000).

1402-2700 Natural

1402-2708 Assorted colors

12 per strip. 80 strips per box (960).

1402-2400 Natural

1402-2408 Assorted colors



Attached Cap Strips

0.2 mL; optically clear flat caps, 125 flex-free, hinged strips of 8/box (1000).

1402-1800 Natural

1402-1880 White

1402-1808 Assorted colors



TempAssure[®]

0.2 mL; attached flat cap, 1000/box.

1402-8120 Optically clear cap

1402-8100 Standard cap



SealRite[®] PCR

0.2 mL; attached dome cap. Contamination guard and support hinge. RNase, DNase, DNA, and pyrogen free. 1000/box.

1602-4300

SealRite®

Strong, Dependable, Multi-Tasking Tubes

Does your tube work for all of your procedures? There's no need to buy separate tubes for sample preparation, centrifugation, boiling, storage, etc. Why not stock your lab with a multi-tasking tube that works for all of your experiments?

Seal-Rite® tubes protect your samples with a precision sealing system that prevents evaporation, leakage, and accidental opening. Seal-Rite tubes are pure polypropylene; no processing additives such as slip agents, biocides, or antistatic agents are used during production. Your samples remain protected from potential bioactive contaminants. Our zip-top, resealable bags are tamper-evident for additional assurance.

Certified free of detectable RNase, DNase, DNA, and pyrogens. Autoclaving is not necessary for most molecular biology applications.

Seal-Rite 1.5 mL Tubes

1615-5500 Natural, 500/bag
1615-5510 Natural, sterilized*, 5 bags of 100 (500)
1615-5599 Assorted colors, 5 bags of 100 (500)
1615-5507 Amber, 500/bag

Seal-Rite 2.0 mL Tubes

Rounded base creates a more visible pellet that is easier to resuspend. Ideal for bacteria and other cells.

1620-2700 Natural, 500/bag
1620-2799 Assorted colors, 5 bags of 100 (500)
1620-2707 Amber, 500/bag

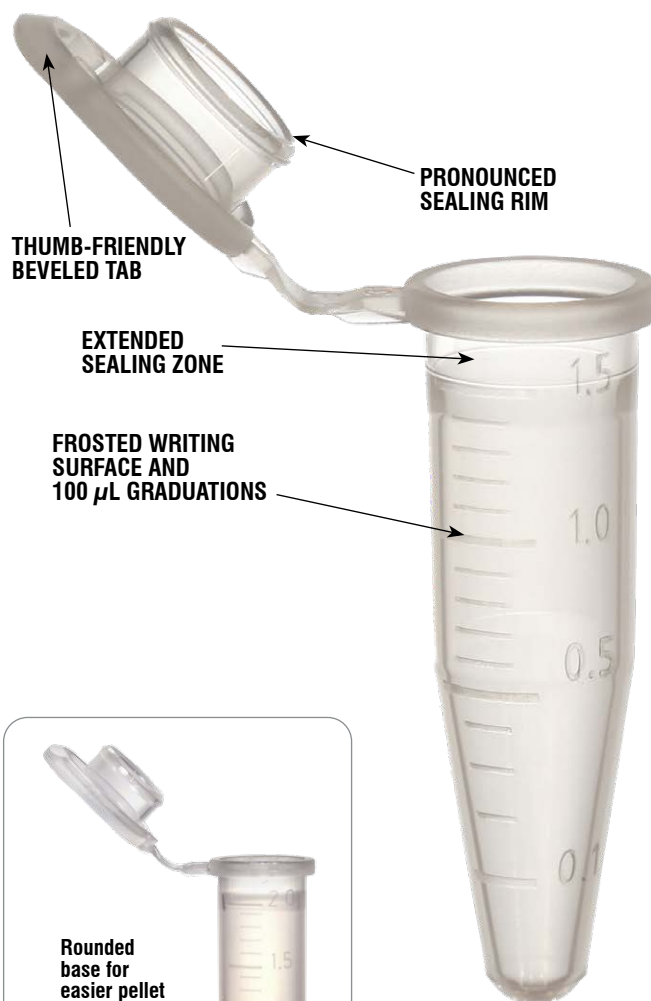
Seal-Rite 0.5 mL Tubes

1605-0000 Natural, 5 bags of 200 (1000)
1605-0099 Assorted colors, 5 bags of 200 (1000)
1605-0007 Amber, 1000/bag

Seal-Rite Starter Pack - 1.5 and 2.0 mL Seal-Rite Tubes

8700-1525 Natural, 5 bags each of 500 (5000)

*Sterile tubes have a limit of 20,000 × g.



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

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

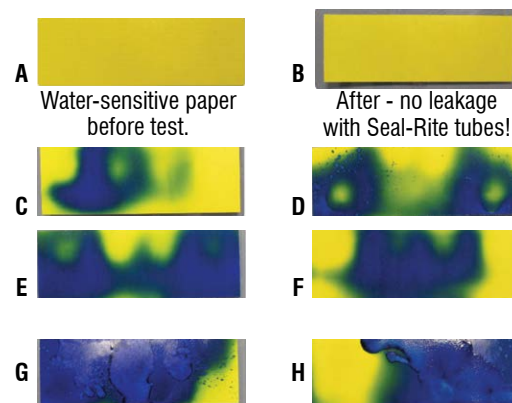


Evaporation Test Results

Does your tube maintain a seal while heating? Although a tube may remain closed, evaporation can occur when a seal is incomplete. Seal-Rite passes the test with no leaks!

Water-sensitive paper has a specially coated yellow surface that turns blue when exposed to moisture. This indicating paper (A) was placed across the top of Seal-Rite (B) and other brands (C-H) of 1.5 mL tubes containing 1 mL of 50% ethanol. The tubes were incubated at 95°C for 15 minutes in a dry bath with a tightly closed lid. Tube brands C-H show varying levels of failure.

Not sure about your tubes? Try Seal-Rite for worry-free incubations or storage. Ask us for free samples.



Tube Racks



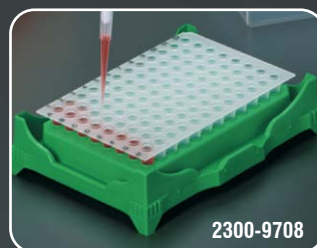
2300-9708

PCR Racks

Polypropylene racks include lids with rims. Compact rack holds 96 tubes. Stackable rack holds PCR tubes and skirted or non-skirted plates. 5/pack.

2300-9602 Compact PCR rack, mixed neon colors

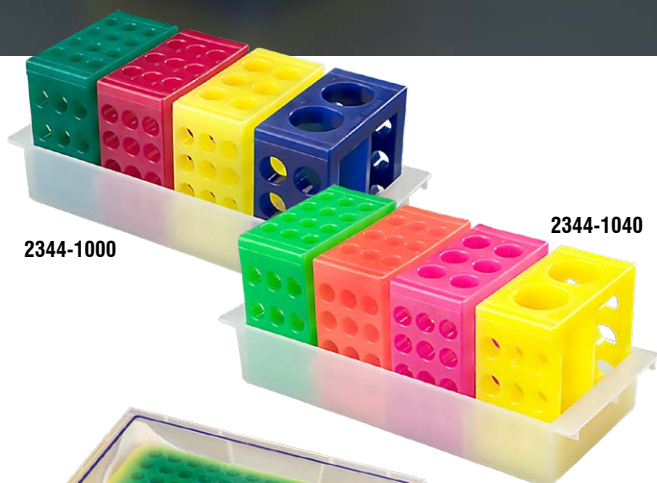
2300-9708 Stackable PCR rack, mixed colors



2300-9708



2300-9602



2344-1000

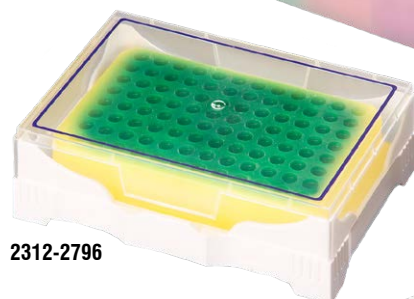
2344-1040

Totally Tubular® Rack

Modular system of 4 blocks and one tray holds microcentrifuge, culture, 15 mL, 50 mL, and other tubes. Polypropylene.

2344-1000 Mixed standard colors

2344-1040 Mixed neon colors



2312-2796



2396-5048

ArcticIce® PCR Chill Racks

Chill racks change color at temperatures above 7°C. Freeze at -20°C before use; racks stay below 7°C for approximately three hours. Holds 96 0.1/0.2 mL tubes or one 96-well plate. Includes locking lids.

2312-2796 PCR chill rack, yellow/green, 2/pack

2312-5496 PCR chill rack, purple/pink, 2/pack

BestRack® 96-Place Rack

Reversible racks with lids hold 1.5/2.0 mL or 0.5 mL tubes. Polypropylene. 8⁷/₁₆" × 4⁵/₈" × 2" H. 5/pack.

2396-5048 Mixed neon colors

2396-5000 Natural (not shown)

TOUGH-SPOTS®



**Need more label and storage options?
See usascientific.com for more information.**

Labels on Rolls

Convenient labels withstand autoclaving, boiling, freezing, or heating without peeling or cracking.

Tough-Spots®

For temperatures from -196°C to 80°C. Vinyl; 1000/roll.

9185-0500 1/2" (1.5-2.0 mL tube), white

9185-05XX[†] 1/2" (1.5-2.0 mL tube), colors

9185-0000 3/8" (0.5 mL tube), white

9185-00XX[†] 3/8" (0.5 mL tube), colors

[†]To order a color replace XX with 01=blue, 02=green, 03=orange, 04=red, 05=violet, 06=yellow, 07=pink. More colors online.

Stainless Steel Freezer Racks

All racks are 5½" deep and hold standard 5¼" × 5¼" × 2" high. Additional boxes can be purchased at usascientific.com

Upright Freezer: Standard Racks

2602-3300	3 L × 3 H, 16 ⁵ / ₁₆ " × 6 ⁵ / ₈ " H
2602-2500	2 L × 5 H, 10 ¹⁵ / ₁₆ " × 11" H
2602-3400	3 L × 4 H, 16 ⁵ / ₁₆ " × 8 ⁷ / ₈ " H
2602-3500	3 L × 5 H, 16 ⁵ / ₁₆ " × 11" H
2602-4300	4 L × 3 H, 21 ⁵ / ₈ " × 6 ⁵ / ₈ " H
2602-4400	4 L × 4 H, 21 ⁵ / ₈ " × 8 ⁷ / ₈ " H
2602-4500	4 L × 5 H, 21 ⁵ / ₈ " × 11" H
2602-4700	4 L × 7 H, 21 ⁵ / ₈ " × 15 ³ / ₁₀ " H

Upright Freezer: Racks with Drawers

Load by sliding boxes through the sides of the frame.

2632-3300	3 L × 3 H, 16½" × 7½" H
2632-2500	2 L × 5 H, 11½" × 11 ¹³ / ₁₆ " H
2632-3400	3 L × 4 H, 16½" × 9 ⁷ / ₁₆ " H
2632-4300	4 L × 3 H, 22" × 7½" H
2632-4400	4 L × 4 H, 22" × 9 ⁷ / ₁₆ " H
2632-4500	4 L × 5 H, 22" × 11 ¹³ / ₁₆ " H
2632-4700	4 L × 7 H, 22" × 16½" H


Chest Freezer: Racks with Locking Rods


2602-1100	1 L × 11 H, 5 ⁵ / ₈ " × 24 ³ / ₁₆ " H
2602-1200	1 L × 12 H, 5 ⁵ / ₈ " × 26 ³ / ₈ " H



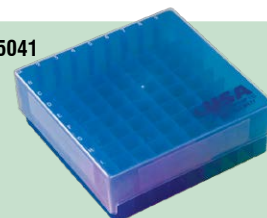
Looking for a durable long-term storage option?

Our polypropylene boxes:  Fit most freezer racks

 Have easy-to-read alpha-numeric markings




 Have permanent dividers that won't lift out and are low for easy tube removal

2381-5041



For more storage options see Storage & Supplies on www.usascientific.com!

Arcticle® Cryogenic Tubes

-  Estimate volumes with highly visible graduations
-  Use for -80°C or vapor phase liquid nitrogen
-  More sizes and formats online

Medical grade polypropylene tubes feature black 100 µL graduations and large white labeling areas. Convenient self-standing, tamper-evident bags are resealable. Choose internal (O-ring) or external threads. Sterilized and certified RNase, DNase, DNA free, and non-pyrogenic. Made in the USA; 50 tubes/pack.

Arcticle Cryogenic Tubes, Sterile	Self-Standing, Star-Shaped Base	Round Bottom Base
1.0 mL, external thread, V-bottom	1410-7310	--
1.8 mL, internal thread, U-bottom	1418-7410	1418-8410
1.8 mL, external thread, U-bottom	1418-7310	1418-8310



Need special or custom packaging? We provide tubes for diagnostic tests, OEM kits, and more.

INSIDE

	Page
ArcticIce® Cryogenic Tubes	19
ErgoOne® Pipettes	6-7
ErgoOne ^{FAST} ® and Serological Pipettes	5
Freezer Racks	19
Labels	18
Mixer HC	2
Mixing and Temperature Control	4
Personal Minicentrifuge	3
PCR Products	14-16
Sample Prep	3
Seal-Rite® Tubes	17
TipOne®	8-13
Tube Racks	18

For more information, contact us at
internationalsales@usascientific.com
 or 352-237-6288.



¡Se habla español!



Layer4® RapidDon

Easy to put on even damp hands!

Layer4® RapidDon gloves with enhanced donning technology reduces resistance caused by damp hands - gloves glide on faster and easier.

- ✓ Gloves glide on for an enhanced fit
- ✓ Excellent grip in wet conditions
- ✓ All sizes in stock and ready to ship!



Looking for a glove that is easy to put on and comfortable enough for all day use? New Layer4 RapidDon gloves meet the demanding needs of daily lab work. Layer4 RapidDon gloves go on damp hands with ease and have an excellent grip under wet conditions.

Layer4® RapidDon, Case

Extra Small (2500/Case)	3925-1100C
Small (2500/Case)	3925-2200C
Medium (2500/Case)	3925-3300C
Large (2500/Case)	3925-4400C
Extra Large (2300/Case)	3925-5500C

Layer4® COMFORT

Powder-Free Soft Nitrile Exam Gloves



Looking for a glove with dexterity, strength, and comfort? Layer4® Comfort gloves meet the demanding needs of daily lab work. Manufactured with an advanced process that uses a minimal amount of surfactants, Layer4 Comfort gloves have an improved grip under wet conditions. In addition, their low dermatitis potential means sensitive users can avoid the redness and itching of contact dermatitis associated with other formulations of nitrile gloves.

*This product has demonstrated reduced potential for sensitizing users to chemical additives.
 Warning: do not use this product if you have a known allergy to chemical additives.

- ✓ Thin and soft for all day comfort
- ✓ Excellent grip in wet conditions
- ✓ 200/box – saves space and material

Layer4® Comfort, Case

Extra Small (2000/Case)	3915-1100C
Small (2000/Case)	3915-2200C
Medium (2000/Case)	3915-3300C
Large (2000/Case)	3915-4400C
Extra Large (2000/Case)	3915-5500C

TipOne®, ErgoOne®, Seal-Rite®, CytoOne®, Layer4®, TempPlate®, TempAssure®, PlateOne®, BestRack®, Totally Tubular®, ArcticIce®, Precise Solutions®, CalibrationOne® and USA Scientific® are registered trademarks of USA Scientific, Inc. Profile Point™, Profile Wall™, No-Drift™, Protection Perimeter™, CELL CULTURE PERFORMANCE WARE™, and Thermal-Lok™ are trademarks of USA Scientific, Inc. Other marks in this catalog may be registered trademarks of their respective companies.

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