



SCIENTIFIC

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See page 2

## The NEW Vortex Mixer

**Precise Solutions®** to Unburden Discovery

# The Vortex Mixer



## A compact mixer and vortexer in one.

The Vortex Mixer is ideally suited for assay protocols that require gentle mixing up to resuspensions that require vigorous vortexing. All protocols are easily controlled by the digital touchscreen. It is supplied with a standard rubber mat attachment. The standard attachment is used for mixing a single tube to 3,500 rpm. It can be used in touch mode by applying pressure to the center cup on the base plate or in program mode via the touchscreen. In both modes, the timer will count how long the program is active, eliminating the need for an additional timer on the bench.

8010-1000 The Vortex Mixer. Includes both the 1.5/2.0 mL tube adapter and the microplate adapter.

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**Easy to program touchscreen, even with gloves**

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**Quick touch mode**

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**Increase yields with precise duration and speed controls**

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8010-0011



8010-0012

**Free adapters with purchase!**

For a limited time, purchase the Vortex Mixer and receive a tube adapter AND a microplate adapter for FREE! Just add 8010-1000 to your order.

## Mixer HC

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 rpm for 0.5 mL tubes; and 300-750 rpm 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.

8012-0000 Mixer HC (without block)

### Blocks and Adapters

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

\*Must be used with the 8012-0018 block

## Sample Prep



Specialized blocks can accommodate a variety of tubes and plates.

## The Personal Minicentrifuge

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

8030-5000 Personal Minicentrifuge

**Quickly start by pressing the electromagnetic lid**

**One Touch STOP button for super-fast braking**

**Easy rotor change - no tools required!**



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.



# 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**

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.

ErgoOne FAST is also comfortable to hold and operate, and weighs less than 5.7 oz. The lithium-polymer battery provides hours of use and recharges quickly. ErgoOne FAST may also be used while charging. The indicator light color lets you know when the battery is full.

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 µm filters, one 0.2 µm filter, rechargeable battery, and charger. Two-year warranty.

7166-0010 ErgoOne FAST controller  
7166-6306 ErgoOne FAST bench stand



## 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, 100/sleeve, 1000/case
1072-0510	2 mL, 0.01 mL graduations, 100/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, 50/sleeve, 200/case
1057-1010	50 mL, 0.5 mL graduations, 25/sleeve, 100/case



Serological pipets are color coded by volume for quick identification. Sterile, non-cytotoxic, and certified free of detectable RNase, DNase, and pyrogens.

## 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. Reservoirs are white, individually wrapped, and sterile. More package options available online.

1930-2230	25 mL, Graduated, 100/pack
1930-2530	50 mL, Graduated, 100/pack
1930-1030	100 mL, Graduated, 100/pack

**Ideal for multi-channel pipettes**

**Corner pour spouts help avoid spills when emptying**



# 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.

## Already own an ErgoOne pipette?

Visit [usascientific.com/calibration-info](http://usascientific.com/calibration-info) for more information on our CalibrationOne® services.

### Single Channel

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

### 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

### 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

## 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



1999-0006



## Multiple Well Plates

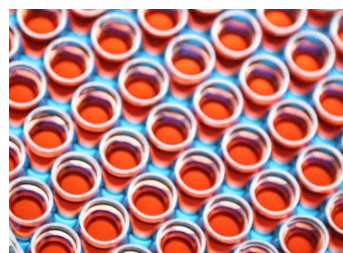


**Prevent cross-contamination with 360° Protection Perimeter™ wells**

**Reduce edge-effects without sacrificing wells by filling inter-well spaces**

**Prevent accidents – ridged bases make pickup and handling easy, even with damp gloves**

CytoOne® plates have crystal-clear surfaces for distortion-free microscopy. Non-reversible lids with condensation rings minimize contamination and are vented for improved gas exchange. CytoOne also features molded alphanumeric for well identification and complete 360° Protection Perimeter™ chimney wells that minimize edge effects and prevent cross contamination. Certified DNase, RNase, DNA, and pyrogen free; non-cytotoxic. Gamma sterilized.



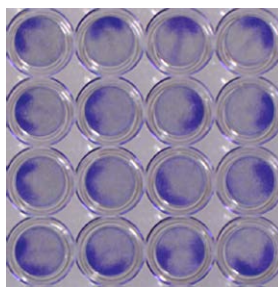
CytoOne cell culture plates have a complete 360° Protection Perimeter™ (blue) around each well.

### Multiple Well Plates, TC Treated

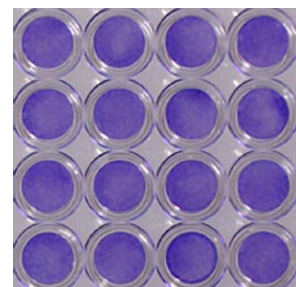
CC7682-7506	6-well, 1/sleeve, 50/case
CC7682-7512	12-well, 1/sleeve, 50/case
CC7682-7524	24-well, 1/sleeve, 50/case
CC7682-7548	48-well, 1/sleeve, 50/case
CC7682-7596	96-well, 1/sleeve, 50/case

**Are you experiencing evaporation during incubation? Avoid the edge effect!**

Avoid wasting up to 37.5% of your plate to non-use. CytoOne cell culture plates have a complete 360° Protection Perimeter™ around each well. Filling these inter-well spaces with media during incubation helps produce a more uniform cell layer. Visit [usascientific.com/minimizing-edge-effect](http://usascientific.com/minimizing-edge-effect) for more information.



Common 96-Well Plate Edge Effect



Reduced Edge Effect in CytoOne®

# CytoOne®

## Cell Culture Flasks

**Easy-access wide necks feature anti-drip collars**

**Anti-tip skirts and base bars reduce accidents**

**Zip top bags reseal without tape to protect unused flasks**

CytoOne® flasks have canted or angled necks, molded volume graduations, and frosted writing surfaces. High optical clarity provides distortion-free microscopy. Flasks are manufactured from premium grade polystyrene under ISO 9001 standards with rigorous quality control. Certified DNase, RNase, DNA, and pyrogen free; non-cytotoxic. Gamma sterilized.

### Filter Cap Flasks, TC Treated

CC7682-4825 T25, 10/sleeve, 300/case

CC7682-4875 T75, 5/sleeve, 100/case

CC7682-4815 T150, 5/sleeve, 40/case

CC7682-4822 T225, 5/sleeve, 25/case



# CytoOne®

## Cell Culture Dishes

**Prevent accidents** – beveled sides on small bases and tabs on large lids allow safe and easy pickup and handling

**Avoid unintended lid removal** – vented rims reduce condensation and surface tension between dishes

**Guard against contamination** – small sleeve quantities expose fewer dishes

CytoOne® cell culture dishes offer easy handling and excellent growth. Sturdy flat bases resist bowing or warping and help cells settle evenly. Sleeves can be easily opened without sharp tools, and small sleeve quantities mean fewer left-over dishes are exposed or wasted.

### Cell Culture Dishes, TC Treated

CC7682-3340 35 × 10 mm, 10/sleeve, 300/case

CC7682-3359 60 × 15 mm, 10/sleeve, 300/case

CC7682-3394 100 × 20 mm, 10/sleeve, 300/case

CC7682-3614 150 × 20 mm, 5/sleeve, 60/case



# TipOne®

**Made in the USA**

**Reduce lab plastics with easy-to-use refills**

**Reuse long-life racks**

**Nesting refills save space and plastic**

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.



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



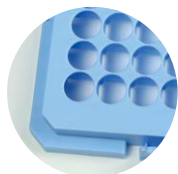
200 µL Profile Point™

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 well stabilized in racks for easy application and are multichannel compatible. 1250 µL XL tips are 15.3 mm longer than 1000 µL tips for easier use inside taller tubes and deep well plates. Blue wafers.

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.



Ways to save with TipOne



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 µL graduated	●	1111-3800	1111-3700	1111-3200	1111-3000
10 µL graduated, sterile	●	1111-3810	--	1111-3210	--
10 µL XL, graduated	●	1110-3800	1110-3700	--	1110-3000
200 µL beveled	●	1111-1800	1111-1700	1111-1200	1111-1000
200 µL beveled, sterile	●	1111-1810	--	1111-1210	--
200 µL Profile Point™, graduated	●	1110-1800	1110-1700	1110-1200	1110-1000
300 µL graduated	●	1110-9800	1110-9700	--	1110-9000
1000 µL graduated, blue	●	1111-2821	1111-2721	--	1111-2021
1250 µL XL, graduated	●	1112-1820	1112-1720	--	1112-1020

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® RPT

Repel-Polymer Technology



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



Comparison between pipetting viscous sample using standard tip (top) and TipOne RPT tips (bottom). Sample retention is dramatically reduced when using TipOne RPT tips.

## Ultra low retention

## No interference with samples

## Retains integrity after autoclaving

## Precise 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 8-12 for additional information on TipOne rack and refill formats and filter tip performance.

Save now with  
refills!



TipOne RPT Ultra low retention tips.	Racks 10 racks of 96 (960 tips)	Refills 10 wafers of 96 (960 tips)	Filter Tips 10 racks of 96 (960 tips)	Filter Tip Refills 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 sample contamination. TipOne tips do not contain clarifiers or processing additives (slip agents, biocides, antistatic agents, etc.) and are 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

The racks are reusable and can be repeatedly autoclaved. Would you like to reduce leftover plastic but need to maintain sterility? Try TipOne sterile filter tip refill cassettes. See page 12 for information.

Tip collars have an extended sealing zone that fits most popular pipettes

Tips are made with pure virgin polypropylene without clarifiers or additives that might compromise your results

Ultra dense, pure polyethylene filter blocks >99% of contaminants

Flash-free orifice prevents sample retention

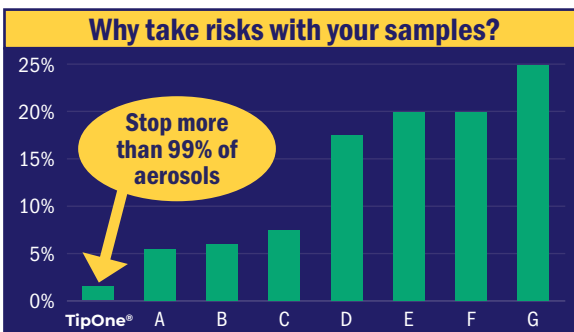


**TipOne filters trap aerosols and airborne contaminants, greatly reducing the risk of sample carry-over and cross contamination.**

## 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



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](http://usascientific.com/tipone) information to learn more.

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

\*Filter tip refills are for use inside new 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.

**Easy to use: just drop into TipOne® racks\***

**Safe & clean: sterile tips are not exposed while loading racks**

**Same trusted TipOne filters block >99% of aerosols**

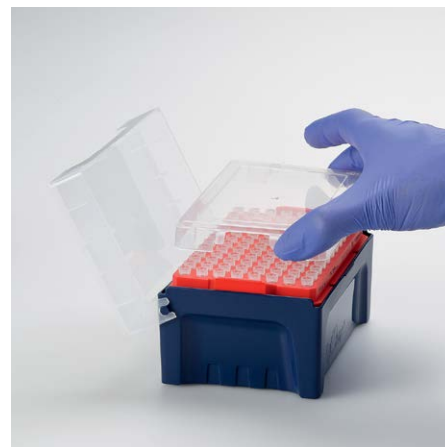
**Eco-friendly design saves up to 63% polypropylene**



Unwrap sterile refill.



Drop into rack.



Cover and protect. It's that easy!

## Looking for a truly easy filter tip refill?

There is no need to align 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 more than 63% of the plastic required for individual racks and 20% of the storage space.

## Filter Tip Refill Cassettes

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

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



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

Learn more about how TipOne uses recycled material to reduce plastic usage.



# TempAssure®

## PCR Tube Strips

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

1402-2900	Natural	1402-2908	Assorted colors
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1402-4700



1402-2300



1402-2900



### Separate Tubes and Cap Strips

Optically clear flat caps. Tubes and caps are labeled to avoid mismatch.

8 per strip. 125 strips per box (1000).	12 per strip. 80 strips per box (960).
1402-2500 0.2 mL, natural, pull-apart	1402-2600 0.2 mL, natural, pull-apart
1402-2580 0.2 mL, white, pull-apart	
1402-3600 0.1 mL, natural, flex-free	

0.2 mL; dome caps

8 per strip. 125 strips per box (1000).	12 per strip. 80 strips per box (960).
1402-1700 Natural	1402-2400 Natural
1402-1708 Asst colors	1402-2408 Asst colors

1402-2500



1402-2700



### 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

1402-2700



### PCR Individual Tubes



#### Seal-Rite® PCR

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

1602-4300



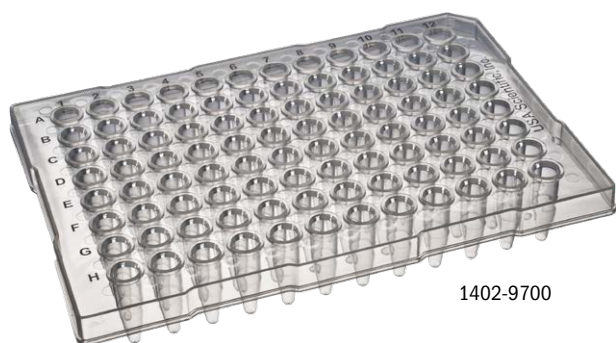
#### TempAssure®

0.2 mL; attached flat cap, 1000/box.

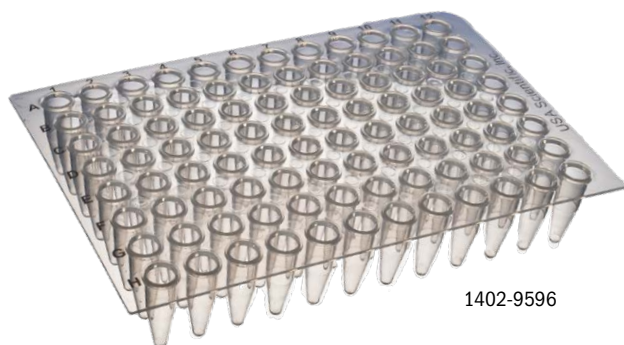
1402-8120	Optically clear cap
1402-8100	Standard cap (shown)

# TempPlate®

High visibility alphanumeric 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.



1402-9700



1402-9596



1402-9800

## PCR Plates

### Real-time compatible

### Rapid, even heat transfer for consistent results

### Inner sleeves keep plates clean

### Ask us for a FREE sample

### Semi-Skirted 96-Well Plates

Easy to handle semi-skirted frame. Rimmed wells minimize cross contamination. 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

### Non-Skirted 96-Well Plates

Easy to read, black alphanumeric labels. Fits wider range of thermal cyclers. 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

### Full-Skirted 96-Well Plates

Easy to handle skirted frame. Rimmed wells minimize cross contamination. Ten/box.

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

### Full-Skirted 384-Well Plates

Rimmed wells provide proper seal and minimize evaporation. 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

# 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.

### End-Point (Traditional) PCR Films & Foils

**Clear films resist tearing and are easy to remove.**

**Foils block light transmission. Pierceable; -80° to 120°C.**

### TempPlate Film and Foil

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

2921-0000	standard cut film, non-sterile
2921-0010	standard cut film, sterile
2923-0100	standard cut foil, non-sterile

### TempPlate XP Film

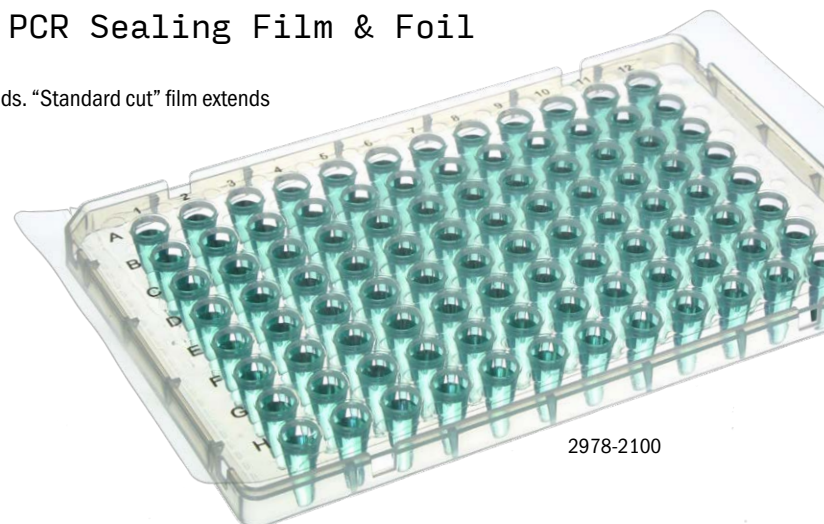
Lowest evaporation rate and best tear resistance due to flexible polyester base and thicker adhesive. Two end tabs; 100 sheets/box.

2972-2100	standard cut, non-sterile
2928-0100	inset cut, non-sterile

### TempPlate EXT Film and Foil

Strong seal and DMSO resistant. Leaves no residue; use from -20° to 120°C. Chamfered corners on inset cut film and foil eliminate overhang with robotic protocols. Non-sterile; 100 sheets/box.

2998-0000	inset cut film, two end tabs
2998-4500	standard cut film, two end tabs
2998-7100	inset cut foil, one end tab



2978-2100

### Real-Time PCR Optically Clear Films

RT films are extremely clear for better light transmission and less distortion.

### TempPlate RT

Non-fluorescing adhesive and an ultra-smooth plastic liner. Two end tabs; use from -40° 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 and does not stick to gloves. Two end tabs; use from -80° to 105°C. DMSO resistant. Inset cut.

2921-7800	non-sterile, 100 sheets/box
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## EasyApp™ Film Kits

**Our popular TempPlate® EXT sealing films are now available in a convenient roll format!**

The easy-to-use TempPlate® EXT EasyApp™ dispenser quickly and seamlessly seals plates to prevent evaporation and contamination during PCR. The same polyester TempPlate EXT film with powerful adhesive provides a complete seal without leaving residue. Non-pierceable; for temperatures from -20° to +120°C. Blue end tabs; Non-Sterile; 80 applications/roll. The applicator is compatible with Microplate and Microporous EasyApp film rolls.

2998-4510	EasyApp TempPlate EXT Film Kit	<b>NEW!</b>
2998-4820	EasyApp TempPlate EXT Refill Rolls (2 rolls)	<b>NEW!</b>

**Microplate film** is a polyester film for ELISA/EIA applications, short term storage, or incubations. Non-pierceable; 38 µm thick. For use from -40° to +120°C. Green end tabs; 100 applications/roll.

2978-5877	EasyApp Microplate Film Kit (non-sterile)
2978-5887	EasyApp Microplate Film Kit (sterile)

**Microporous 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° to +80°C. Red end tabs; 50 applications/roll.

2978-5872	EasyApp Microporous Film Kit (non-sterile)
2978-5827	EasyApp Microporous Film Kit (sterile)



2998-4510

**Built-in paddle:**  
Use bottom of dispenser to securely smooth seal onto plate

# SealRite®

Strong. Dependable. Multi-tasking.



Seal-Rite® tubes protect your samples with a precision sealing system that prevents evaporation, leakage, and accidental opening. Rated for centrifugation up to 25,000 × g and packed in tamper evident, zip top bags for safe storage. Certified free of detectable RNase, DNase, DNA, and pyrogens. Autoclaving is not necessary for most molecular biology applications.

Seal-Rite tubes are pure virgin polypropylene and are manufactured with fully automated, state-of-the-art production equipment housed in a positive pressure, HEPA filtered environment. 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 0.5 mL Tubes

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

## Seal-Rite 1.5 mL Tubes

1615-5500 Natural, 500/bag  
 1615-5510 Natural, sterilized\*, 5 bags of 100  
 1615-5599 Assorted colors, 5 bags of 100  
 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  
 1620-2707 Amber, 500/bag

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

## Seal-Rite Starter Pack

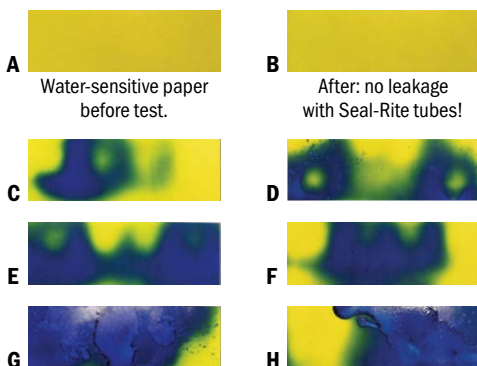
1.5 and 2.0 mL Seal-Rite Tubes  
 8700-1525 Natural, 5 bags each of 500 (5000)



Rounded base for easier pellet resuspension



Assorted Colors



## Microcentrifuge Tube Leak Test

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) 1.5 mL tubes containing 1 mL of 50% ethanol and 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. Contact us for free samples.**

## Boxes and Racks

**81-Place Polypropylene Freezer Boxes**

Holds most 1.5/2.0 mL tubes and cryogenic vials. Alphanumeric indicators and low dividers. 5  $\frac{1}{16}$ " L  $\times$  5  $\frac{1}{8}$ " W  $\times$  1  $\frac{7}{8}$ " H. 5/pack.

2381-5048 Mixed neon colors with natural lids

2381-5800 Natural color



2381-5048



2381-5800

**100-place Polypropylene Hinged Freezer Boxes**

Lids have a durable, rolling hinge that withstands freezer storage.

5  $\frac{1}{16}$ " L  $\times$  6" D  $\times$  2  $\frac{3}{16}$ " H, 5/pack.

2310-5848 Mixed neon colors

2310-5800 Natural color

2310-5809 Black color



2310-5848



9023-8181

**Premium Cardboard Freezer Boxes**

Moisture resistant coating. Deep lids (1  $\frac{3}{8}$ " H) hold tubes up to 70 mm H. Shallow lids are 1  $\frac{5}{16}$ " H. 5  $\frac{1}{4}$ "  $\times$  5  $\frac{1}{4}$ "  $\times$  2" H fully closed.

9023-8181 81-place box, deep lid, each

9523-8181 81-place box, deep lid, 50/case

9023-4981 81-place box, shallow lid, each

**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



2344-1000



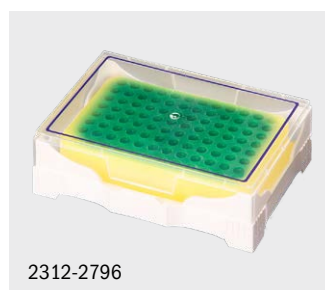
2344-1040

**ArticIce® PCR Chill Racks**

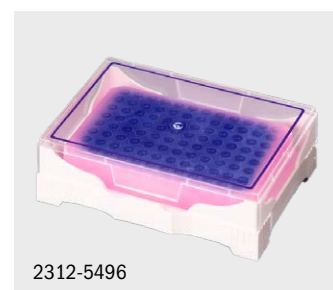
Chill racks change color at temperatures above 7°C. Freeze at -20°C before use; racks stay below 7°C for approximately three hours. Holds six 0.1/0.2 mL tubes or one 96-well plate. Includes locking lids. 2/pack.

2312-2796 PCR chill rack, yellow/green

2312-5496 PCR chill rack, purple/pink



2312-2796



2312-5496

**Labels on Rolls**

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

**Tough-Spots®**

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

9185-0500  $\frac{1}{2}$ " (1.5-2.0 mL tube), white

9185-05XX<sup>†</sup>  $\frac{1}{2}$ " (1.5-2.0 mL tube), colors

9185-0000  $\frac{3}{8}$ " (0.5 mL tube), white

9185-00XX<sup>†</sup>  $\frac{3}{8}$ " (0.5 mL tube), colors

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

**TOUGH-SPOTS®**

**Need more label and storage options?**  
See [usascientific.com](http://usascientific.com) for more information.

## Mixing and Temperature Control

### 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](http://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 Baths

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  $0.1^\circ\text{C}$ . Includes a block lifter with insulated handle. Two-year warranty. See [usascientific.com](http://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

**\*Get 2 Blocks For the price of 1 when you order Thermal-Lok 2530-1102!**

## 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 nutating 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)

Freezer Racks

Stainless Steel Freezer Racks

Individual compartments hold plastic or cardboard 5 ¼" × 5 ¼" × 2" high boxes. Racks below are 5 ½" deep. (Boxes sold separately.)

Upright Freezer Racks

- 2602-3300 3 L × 3 H, 16 ⅝" × 6 ⅞" H
- 2602-3400 3 L × 4 H, 16 ⅝" × 8 ⅞" H
- 2602-3500 3 L × 5 H, 16 ⅝" × 11" H
- 2602-4300 4 L × 3 H, 21 ⅞" × 6 ⅞" H
- 2602-4400 4 L × 4 H, 21 ⅞" × 8 ⅞" H
- 2602-4500 4 L × 5 H, 21 ⅞" × 11" H

Upright Freezer Racks with Drawers

Load by sliding boxes through the sides of the frame.

- 2632-3300 3 L × 3 H, 16 ½" × 7 ⅞" H
- 2632-3400 3 L × 4 H, 16 ½" × 9 ⅞" H
- 2632-4300 4 L × 3 H, 22" × 7 ⅞" H
- 2632-4400 4 L × 4 H, 22" × 9 ⅞" H
- 2632-4500 4 L × 5 H, 22" × 11 ⅞" H

Chest Freezer Racks with Locking Rods

- 2602-1100 1 L × 11 H, 5 ⅞" × 24 ⅜" H
- 2602-1200 1 L × 12 H, 5 ⅞" × 26 ⅜" H



2602-3300



2602-3400



2602-4500



2632-3300



2602-1100



2602-1200

Multiple Well Plate Rack Capacity

Cat. No.	Style	With Lids	Without Lids
2661-0900	Standard	84	102
2642-0957	Standard	56	64
2652-0957	Standard	70	80
2662-0957	Standard	84	96
2696-4600	Drawer	72	96

Find more freezer rack options online!

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 can provide tubes for diagnostic tests, OEM kits, and more.



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For more information, contact us at  
[internationalsales@usascientific.com](mailto:internationalsales@usascientific.com) or  
**352-237-6288.**

¡Se habla español!



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[www.usascientific.com](http://www.usascientific.com)



## 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.

Looking for a glove that is easy to put on and comfortable enough for all day use? Layer4 RapidDon gloves meet the demanding needs of daily lab work. 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.

### 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

\*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.

TipOne®, ErgoOne®, Seal-Rite®, CytoOne®, Layer4®, TempPlate®, TempAssure®, PlateOne®, BestRack®, Totally Tubular®, Arcticlce®, 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.