labcon

NORTH AMERICA

Catalog 2007

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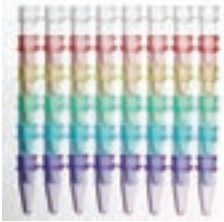

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CHEMICAL RESISTANCE CHART . . . . . *Inside back cover*

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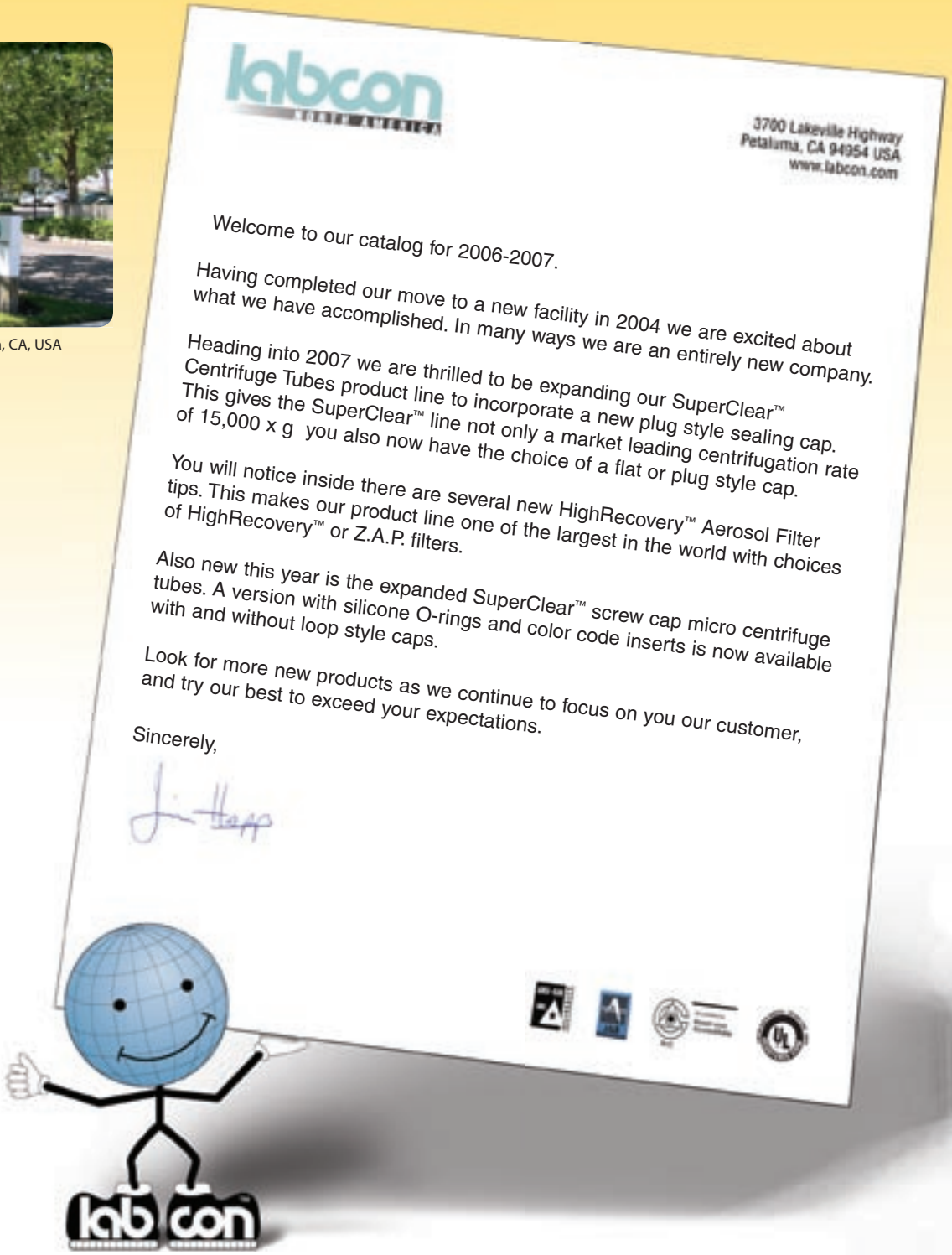
Labcon North America, Petaluma, CA, USA

For Aaron
1972-2005



labcon

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Welcome to our catalog for 2006-2007.

Having completed our move to a new facility in 2004 we are excited about what we have accomplished. In many ways we are an entirely new company.

Heading into 2007 we are thrilled to be expanding our SuperClear™ Centrifuge Tubes product line to incorporate a new plug style sealing cap. This gives the SuperClear™ line not only a market leading centrifugation rate of 15,000 x g you also now have the choice of a flat or plug style cap.

You will notice inside there are several new HighRecovery™ Aerosol Filter tips. This makes our product line one of the largest in the world with choices of HighRecovery™ or Z.A.P. filters.

Also new this year is the expanded SuperClear™ screw cap micro centrifuge tubes. A version with silicone O-rings and color code inserts is now available with and without loop style caps.

Look for more new products as we continue to focus on you our customer, and try our best to exceed your expectations.

Sincerely,

Labcon North America was founded in Marin County, California in 1959. Our original name was Ways and Means, Inc. The name given to the company at that time reflected the newness of the industry. We were founded to literally find the "Ways and Means" to make plastic products. Then our products ranged from toys to filters.

Now more than 45 years later we have grown to supply more than 800 products to laboratories everywhere. Most of what we make are used by the millions. Some of what we make we count in the billions.

Throughout all we do we strive to bring high quality products to you that offer more value than you expect at the same time we reduce their environmental impact. As a part of all we design we eliminate waste or allow for reuse and recycling. We work hard to be **"The Earth Friendly Company"**.

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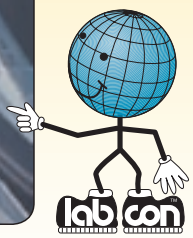
"These tubes are certified free of nuclease and endotoxins."



SuperClear™ 15mL and 50mL Centrifuge Tubes

SuperClear™ centrifuge tubes are available in 15mL or 50mL sizes that fit all popular centrifuges and storage racks. All printed tubes feature an extra large solvent resistant white labeling area and black graduations for use with clear or turbid samples. Both 15mL and 50mL tubes are available in patented Earth Friendly® racks that can be labeled with popular lab markers. These clean coated paper racks can be folded and recycled with other cardboard materials. Caps are available in flat style that can be easily labeled and a plug style that resists leaking. Both styles can be closed with a quick 3/4 turn allowing one handed opening and closing. Our 15mL and 50mL SuperClear™ tubes are made from our special medical grade resins that have been formulated specially so they will not yellow after radiation sterilization. This allows you to spin these tubes up to 15,000 x g unlike tubes made with lower cost resins that can only spin to speeds under 10,000 x g. 15mL tubes are also available in clear polystyrene with molded external graduations. 50mL skirted freestanding tubes with molded external graduations are available for use when separate racks are unavailable. Sterile tubes are radiation sterilized to ensure non-cytotoxicity.

Now 15mL spins as high as 50mL

Comparison photo of 50mL tube cones shows thicker cones of SuperClear™ tubes (center, Teal) withstand breakage better than popular brands.

**Actual test with market samples.
Tubes filled with 45mL distilled water.
Spun for 15 minutes @ 20,000 RCF. Unsupported.**

Item	Material	Autoclavable*	Max RCF**	Temp. Range °C
50mL Printed Tube	*SuperClear Polypropylene*	*Yes*	*15,000*	*-90° to 122°*
50mL Freestanding Tube with Molded Graduations	*SuperClear Polypropylene*	*Yes*	*9,400*	*-90° to 122°*
15mL Printed Tube	*SuperClear Polypropylene*	*Yes*	*15,000*	*-90° to 122°*
15mL Tube with Molded Graduations	*Polystyrene*	*No*	*3,000*	*-40° to 90°*

* Caps are not autoclavable separately from tubes.

** RCF is Relative Centrifugal Force as measured in G's for specific gravity of 1.0. Always use appropriate cushion or adapters and biohazard containment precautions. Organic solvents and other strong chemicals may reduce maximum RCF. Printed graduations are accurate to ±5%.

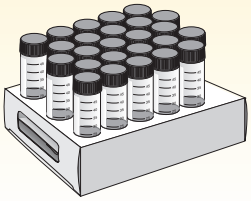
15mL Polystyrene tubes with molded graduations

15mL & 50mL Centrifuge Tubes

in patented Earth Friendly® packaging

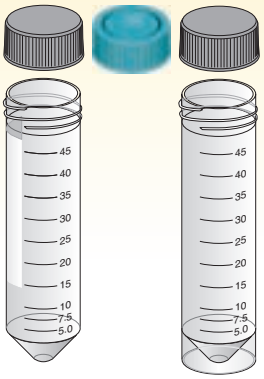
Secure cap seal withstands heavy vortexing

Cat No.	Description	Unit	Case
50mL Clear Polypropylene with Printed Graduations and Flat Caps			
3181-340	*50/Bag, 10 Bags/Case*	*50*	*500*
3181-345	*50/Bag, 10 Bags/Case, Sterile*	*50*	*500*
3191-330	*25/Rack, 20 Racks/Case*	*25*	*500*
3191-335	*25/Rack, 20 Racks/Case, Sterile*	*25*	*500*
3191-870	*Bulk Packed, w/separate cap*	*500*	*500*
Freestanding 50mL with External Molded Graduations and Flat Caps			
3095-340	*50/Bag, 10 Bags/Case*	*50*	*500*
3095-345	*50/Bag, 10 Bags/Case, Sterile*	*50*	*500*
3095-330	*25/Rack, 20 Racks/Case*	*25*	*500*
3095-335	*25/Rack, 20 Racks/Case, Sterile*	*25*	*500*
3095-870	*Bulk Packed, w/separate cap*	*500*	*500*
50mL Clear Polypropylene with Printed Graduations and Plug Seal Style Caps			
3182-340	*50/Bag, 10 Bags/Case*	*50*	*500*
3182-345	*50/Bag, 10 Bags/Case, Sterile*	*50*	*500*
3192-330	*25/Rack, 20 Racks/Case*	*25*	*500*
3192-335	*25/Rack, 20 Racks/Case, Sterile*	*25*	*500*
15mL Clear Polypropylene with Printed Graduations and Flat Caps			
3131-340	*50/Bag, 10 Bags/Case*	*50*	*500*
3131-345	*50/Bag, 10 Bags/Case, Sterile*	*50*	*500*
3141-330	*25/Rack, 2 Racks/Pkg., 10 Pkg/Case*	*50*	*500*
3141-335	*25/Rack, 2 Racks/Pkg., 10 Pkg/Case, Sterile*	*50*	*500*
3141-870	*Bulk Packed, w/separate cap*	*500*	*500*
15mL Clear Polystyrene with External Molded Graduations and Flat Caps			
3130-340	*50/Bag, 10 Bags/Case*	*50*	*500*
3130-345	*50/Bag, 10 Bags/Case, Sterile*	*50*	*500*
3140-330	*25/Rack, 2 Racks/Pkg.*	*50*	*500*
3140-335	*25/Rack, 2 Racks/Pkg., Sterile*	*50*	*500*
3128-350	*125/Bag, w/attached cap*	*125*	*500*
3128-355	*125/Bag, w/attached cap, Sterile*	*125*	*500*
3115-870	*Bulk packed, w/separate cap*	*500*	*1000*
15mL Clear Polypropylene with Printed Graduations and Plug Seal Style Caps			
3132-340	*50/Bag, 10 Bags/Case*	*50*	*500*
3132-345	*50/Bag, 10 Bags/Case, Sterile*	*50*	*500*
3142-330	*25/Rack, 2 Racks/Pkg., 10 Pkg/Case*	*50*	*500*
3142-335	*25/Rack, 2 Racks/Pkg., 10 Pkg/Case, Sterile*	*50*	*500*
3142 -870	*Bulk Packed, w/separate cap*	*500*	*500*



50mL tubes
25 per rack

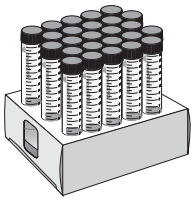
50mL Tube Dimensions:
Overall length: 115mm
Inside diameter: 25mm
Outside diameter: 29mm



50mL

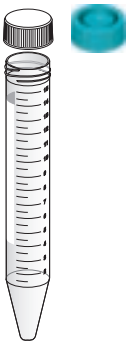
Freestanding 50mL

Patented racks fold flat for recycling.



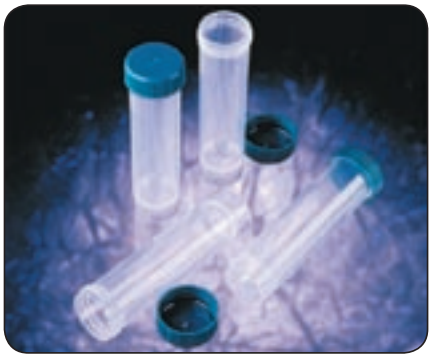
15mL tubes
25 per rack, 2 racks/pkg.

15mL Tube Dimensions:
Overall length: 118mm
Inside diameter: 15mm
Outside diameter: 17mm



15mL

Skirted 50mL tubes for freestanding applications.



SuperClear™ Screw Cap Micro Tubes

with Universal Fit Ethylene Propylene O-ring Caps

SuperClear™ Screw Cap Micro Tubes are made from an ultra clear resin that gives you an excellent view of tube contents. These tubes include universal screw threads that will work with all major brands of caps. Caps include an ethylene propylene O-ring seal for secure storage. Also included are large external graduations and a smooth surface for applying labels. Caps and tubes are autoclavable and freezable. Sterile tubes are radiation sterilized. Tubes can be centrifuged to 20,000 RCF.

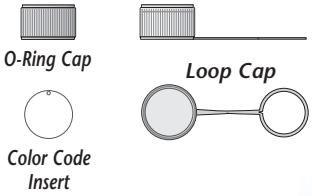
- *Ultra clear resin*
- *0.5, 1.5, 2.0mL sizes*
- *Resealable bags*
- *Low profile caps with universal threads fit many brands of tubes*

Cat No.	Description	Unit	Case
Tubes with Natural Color Caps in Separate Resealable Bags			
500 tubes and 500 caps per package.			
3631-870	*0.5mL*	*500*	*5000*
3641-870	*0.5mL freestanding*	*500*	*5000*
3611-870	*1.5mL*	*500*	*5000*
3651-870	*1.5mL freestanding*	*500*	*5000*
3661-870	*2.0mL*	*500*	*5000*
3621-870	*2.0mL freestanding*	*500*	*5000*
Sterile Tubes with Attached Natural Color Caps			
50 tubes in each sterile bag, 10 bags per package.			
3631-875	*0.5mL*	*500*	*5000*
3641-875	*0.5mL freestanding*	*500*	*5000*
3611-875	*1.5mL*	*500*	*5000*
3651-875	*1.5mL freestanding*	*500*	*5000*
3661-875	*2.0mL*	*500*	*5000*
3621-875	*2.0mL freestanding*	*500*	*5000*
Tubes only in Resealable bags			
500 tubes per bag.			
3630-870	*0.5mL*	*500*	*5000*
3640-870	*0.5mL freestanding*	*500*	*5000*
3610-870	*1.5mL*	*500*	*5000*
3650-870	*1.5mL freestanding*	*500*	*5000*
3660-870	*2.0mL*	*500*	*5000*
3620-870	*2.0mL freestanding*	*500*	*5000*
Caps only in Resealable bags			
500 caps per bag.			
3600-870	*Natural*	*500*	*5000*
3600-874	*Red*	*500*	*5000*
3600-873	*Orange*	*500*	*5000*
3600-872	*Yellow*	*500*	*5000*
3600-878	*Green*	*500*	*5000*
3600-877	*Blue*	*500*	*5000*
3600-876	*Purple*	*500*	*5000*
3600-871	*White*	*500*	*5000*
3600-879	*Asssorted*	*500*	*5000*

SuperClear™ Screw Cap Micro Tubes

With Silicone O-Ring caps that accept color code inserts

These SuperClear™ micro tubes include caps that have a silicone O-Ring embedded in the cap. This style of cap also will accept color code inserts or the clear label covers.



Cat No.	Description	Unit	Case
Tubes with Natural Color Silicone O-Ring Caps			
500 tubes and 500 caps per package.			
3633-870	*0.5mL*	*500*	*5000*
3643-870	*0.5mL freestanding*	*500*	*5000*
3613-870	*1.5mL*	*500*	*5000*
3653-870	*1.5mL freestanding*	*500*	*5000*
3663-870	*2.0mL*	*500*	*5000*
3623-870	*2.0mL freestanding*	*500*	*5000*
Sterile Tubes with Attached Natural Color Silicone O-Ring Caps			
50 tubes in each sterile bag, 10 bags per package.			
3633-875	*0.5mL*	*500*	*5000*
3643-875	*0.5mL freestanding*	*500*	*5000*
3613-875	*1.5mL*	*500*	*5000*
3653-875	*1.5mL freestanding*	*500*	*5000*
3663-875	*2.0mL*	*500*	*5000*
3623-875	*2.0mL freestanding*	*500*	*5000*
Tubes with Natural Color Silicone O-Ring Loop Caps			
500 tubes and 500 caps per package.			
3634-870	*0.5mL*	*500*	*5000*
3644-870	*0.5mL freestanding*	*500*	*5000*
3614-870	*1.5mL*	*500*	*5000*
3654-870	*1.5mL freestanding*	*500*	*5000*
3664-870	*2.0mL*	*500*	*5000*
3624-870	*2.0mL freestanding*	*500*	*5000*
Sterile Tubes with Attached Natural Color Silicone O-Ring Loop Caps			
500 tubes and 500 caps per package.			
3634-875	*0.5mL*	*500*	*5000*
3644-875	*0.5mL freestanding*	*500*	*5000*
3614-875	*1.5mL*	*500*	*5000*
3654-875	*1.5mL freestanding*	*500*	*5000*
3664-875	*2.0mL*	*500*	*5000*
3624-875	*2.0mL freestanding*	*500*	*5000*
Caps only with Silicone O-Rings, in resealable bags *500 caps per bag.*			
3603-870	*Natural*	*500*	*5000*
3603-871	*White*	*500*	*5000*
3603-872	*Yellow*	*500*	*5000*
3603-873	*Orange*	*500*	*5000*
3603-874	*Red*	*500*	*5000*
3603-876	*Violet*	*500*	*5000*
3603-877	*Blue*	*500*	*5000*
3603-878	*Green*	*500*	*5000*
3603-879	*Asssorted*	*500*	*5000*
Loop Caps only with Silicone O-Rings, in resealable bags *500 caps per bag.*			
3604-870	*Natural*	*500*	*5000*
3604-871	*White*	*500*	*5000*
3604-872	*Yellow*	*500*	*5000*
3604-873	*Orange*	*500*	*5000*
3604-874	*Red*	*500*	*5000*
3604-876	*Violet*	*500*	*5000*
3604-877	*Blue*	*500*	*5000*
3604-878	*Green*	*500*	*5000*
3604-879	*Asssorted*	*500*	*5000*
Color Code Inserts *500 per bag.*			
3605-870	*Natural*	*500*	*5000*
3605-871	*White*	*500*	*5000*
3605-872	*Yellow*	*500*	*5000*
3605-873	*Orange*	*500*	*5000*
3605-874	*Red*	*500*	*5000*
3605-876	*Violet*	*500*	*5000*
3605-877	*Blue*	*500*	*5000*
3605-878	*Green*	*500*	*5000*
3605-879	*Asssorted*	*500*	*5000*

SuperSpin tubes feature an extra thick and durable wall that can withstand centrifugation to 40,000 x G*. The ultra clear polypropylene resin gives you a clear view of the pellet as well as correct color rendition. Designed with ergonomic caps and smooth surfaces that can help reduce the potential for repetitive strain injury. The cap also includes a special 90° hinge that makes it easier to close while one-handed pipetting. Available in 1.5mL sizes that fit all standard and high capacity rotors. Tubes have flat piercable caps and a side writing surface. Autoclavable and freezable. In resealable bags. Graduated.

- *Ultra high centrifuging to 40,000 x G**
- *Optically clear resin*
- *Resin will not interfere with DNA or PCR*
- *For Phenol/Chloroform vortexing*

Now spins even higher

The ability to extract DNA from samples and then amplify that DNA with reliable results is an important part of lab work. SuperSpin tubes where designed with this in mind. They can be trusted to spin at high rates. They can be opened and closed easily many times to add or remove reagents. The interior surfaces are ultra-smooth with low retention. They are clear enough to be used in a spectrophotometer and have no extractables at the wavelength ranges you use to detect DNA. The chart below details the performance of SuperSpin tubes in light transmission compared to popular brands. SuperSpin tubes are more than twice as effective at transmitting light than most brands of micro centrifuge tubes.

1.5mL SuperSpin™ Gatefree Polypropylene Micro Centrifuge Tubes
with flat caps, writing surface and graduations. Resealable bags.

Cat No.	Description	Unit	Case
3016-870	Natural	500	5000
3016-871	Amber (light sensitive samples)	500	5000
3016-874	Red	500	5000
3016-873	Orange	500	5000
3016-872	Yellow	500	5000
3016-878	Green	500	5000
3016-877	Blue	500	5000
3016-876	Purple	500	5000
3016-879	Assorted	500	5000

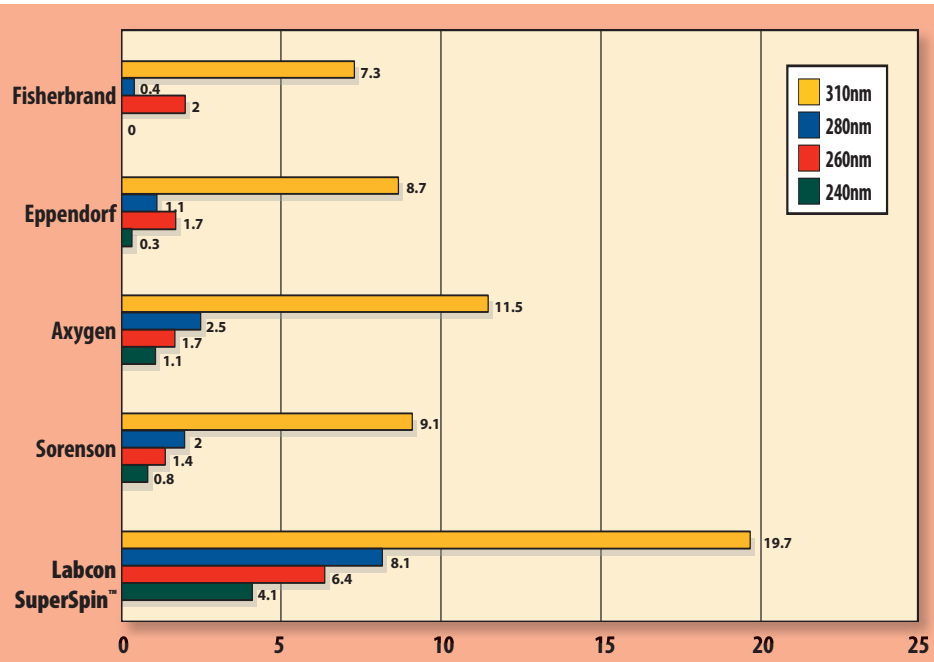
PCR/DNA Range Light Transmission

The chart shows the results of a study comparing the light transmission ability of some popular brands of micro centrifuge tubes in the PCR/DNA range.

In this study one tube from every brand was placed into a spectrophotometer. The percent transmission of light at the wavelengths shown was compared to an empty chamber. The results are shown below. Samples were from purchased market samples.

Data for tubes:
Axygen #MCT-150-C, Lot #311-08-051
Eppendorf #22 36 320-4, Lot #01 107871 3637
FisherBrand #02-681-458, Lot #C509-GRD-FIS
Sorenson #11510, Lot # None on Package
Labcon SuperSpin, Lot #252

Note: Light transmission for SuperSpin does not apply to amber version of this tube.



** Maximum G-force can be affected by organic solvents, multiple spin cycles, or low temperature storage. See chart on page 8.*

CENTRIFUGATION

SuperSpin™ Micro Centrifuge Tubes

SuperSpin™ features:

Bottom designed with no sharp points to tear gloves

Chamfered opening for pouring supernatant

Smooth rounded cap closure won't catch your gloves

Ultra smooth surface polish improves fluid removal

Flat cap can be easily labeled

Slim design fits high capacity rotors

Every lot is free from nuclease

Unique 90° hinge orients cap for easy fit.

SuperSpin tubes were developed by selecting all the best features of existing micro centrifuge tubes and adding to them the features end users have been asking for. This resulted in tubes with tremendous value. As you can see from the tests below SuperSpin tubes surpass the performance of all major brands of tubes. These are not only tubes that can be spun fast. These are tubes that are pure. Every lot of SuperSpin tubes is tested and guaranteed free of Rnase and Dnase. And since SuperSpin tubes are made with our pre-tested medical grade CFR 21 resin we know you can use these tubes for DNA extraction without worrying about contaminating your sample.

Extractables of Micro Tubes

Procedure: 8 tubes of each brand were filled with 1mL of TE buffer. The tubes were then placed in an incubator at 57°C for 24 hours. After this incubation, the TE from 4 of the 8 tubes from each brand was pooled and light absorbance was measured against reference TE in a Perkin-Elmer Lambda 3B Spectrophotometer.

240nm	260nm	280nm	310nm
-0.011	-0.014	-0.014	-0.014
-0.012	-0.018	-0.018	-0.018
-0.012	-0.016	-0.016	-0.016

Eppendorf

240nm	260nm	280nm	310nm
0.001	0.001	-0.005	-0.008
-0.002	-0.003	-0.011	-0.015
-0.001	-0.001	-0.008	-0.012

SuperSpin

Micro Centrifuge Tube Centrifugation

This study was designed to compare the ability of popular brands of micro centrifuge tubes to withstand centrifuging.

For this study 12 tubes from every brand were filled with distilled water and placed into a high speed centrifuge. These tubes were sequentially spun at the speeds shown in the chart. The results are shown below. Samples were from purchased market samples.

Data for tubes:
Axygen #MCT-150-C, Lot #311-08-051
Eppendorf #22 36 320-4, Lot #01 107871 3637
FisherBrand #02-681-458, Lot #C509-GRD-FIS
Sorenson #11510, Lot # None on Package
Labcon SuperSpin, Lot #252

KEY:

- *No change*
- *Minor bulging or bending*
- *Crazing or minor cracking*
- *Major bulge or deformation*
- *Break*

Test	*Reaction*	Fisherbrand	Eppendorf	Axygen	Sorenson	Labcon SuperSpin
30,000 4°C 10 minutes	No change	12	12	12	12	12
	Minor bulging or bending					
	Crazing or minor cracking					
	Major bulge or deformation					
	Break					
35,000 18°C 10 minutes	No change	12	12	12	12	12
	Minor bulging or bending					
	Crazing or minor cracking					
	Major bulge or deformation					
	Break					
40,000 18°C 10 minutes	No change	6			1	
	Minor bulging or bending	1			1	12
	Crazing or minor cracking	5	12		9	
	Major bulge or deformation				1	
	Break			12		
42,500 18°C 10 minutes	No change	1				
	Minor bulging or bending				2	12
	Crazing or minor cracking	11	12		9	
	Major bulge or deformation					
	Break				1	
45,000 18°C 10 minutes	No change					
	Minor bulging or bending					12
	Crazing or minor cracking	12	8		1	
	Major bulge or deformation		1			
	Break		3		11	
50,000 18°C 10 minutes	No change					
	Minor bulging or bending					10
	Crazing or minor cracking	10				
	Major bulge or deformation					1
	Break	2				1

Micro Centrifuge Tube Centrifugation Results

- *Optically clear resin*
- *Resin will not interfere with DNA or PCR*
- *Significantly less waste*

SuperClear™ tubes feature an ultra clear polypropylene resin that gives you a clear view of the pellet as well as correct color rendition. Designed to be Earth Friendly® these tubes use 50% less plastic than most other tubes and include ergonomic caps with smooth surfaces that can help reduce the potential for repetitive strain injury. The cap also includes a special 90° hinge that makes the cap easier to close while one handed pipetting. Available in 0.65mL and 1.7mL sizes that fit all standard and high capacity rotors. 0.65mL tubes can also be used in many PCR Thermocyclers. Tubes have flat pierceable caps, a side writing surface and graduations. Autoclavable and freezable.

Cat No.	Description	Unit	Case
	0.65 mL SuperClear™ GateFree™ POLYPROPYLENE MICRO CENTRIFUGE TUBES *with FLAT CAPS, writing surface and graduations. Resealable bags.*		
3023-800	Natural	1000	10000
3023-804	Red	1000	10000
3023-803	Orange	1000	10000
3023-802	Yellow	1000	10000
3023-808	Green	1000	10000
3023-807	Blue	1000	10000
3023-806	Purple	1000	10000
3023-809	Rainbow	1000	10000
	1.7 mL SuperClear™ GateFree™ POLYPROPYLENE MICRO CENTRIFUGE TUBES *with FLAT CAPS, writing surface and graduations. Resealable bags. Not for vortexing.*		
3013-870	Natural	500	5000
3013-874	Red	500	5000
3013-873	Orange	500	5000
3013-872	Yellow	500	5000
3013-878	Green	500	5000
3013-877	Blue	500	5000
3013-876	Purple	500	5000
3013-879	Rainbow	500	5000
	1.7 mL SuperClear™ Centrifuge Tubes without Caps *Polypropylene. Resealable bags*		
3033-870	Natural	500	5000
3033-874	Red	500	5000
3033-873	Orange	500	5000
3033-872	Yellow	500	5000
3033-878	Green	500	5000
3033-877	Blue	500	5000
3033-876	Purple	500	5000
3033-879	Rainbow	500	5000

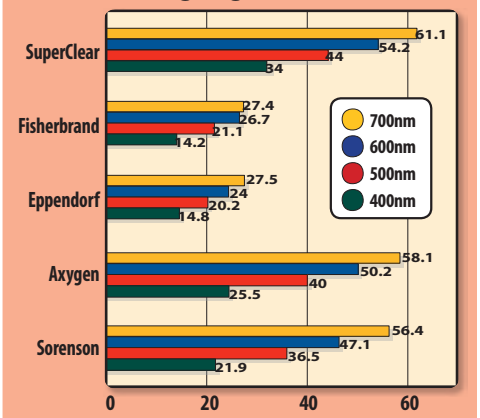
Spins to: 35,000 RCF

Spins to: 14,000 RCF

Spins to: 14,000 RCF

Maximum G-force and acceptable use can be affected by organic solvents, multiple spin cycles, low temperature storage, or vortexing. Always run a trial before using centrifuge tubes in your procedure. Make sure appropriate cushions, adapters and biohazard containment is in place before proceeding.

Visible Range Light Transmission



The chart shows the results of a study comparing the visable light transmission ability of some popular brands of micro centrifuge tubes.

In this study one tube from every brand was placed into a spectrophotometer. The percent transmission of light at the wavelengths shown was compared to an empty chamber. The results are shown below. Samples were from purchased market samples.

Data for tubes:
Axygen #MCT-150-C, Lot #311-08-051
Eppendorf #22 36 320-4, Lot #01 107871 3637
FisherBrand #02-681-458, Lot #C509-GRD-FIS
Sorenson #11510, Lot # not shown on package
Labcon SuperClear Lot #304FP-304

Micro Centrifuge Tube Selection Guide

Use this chart to help choose the right tube for your application

Process / Item	3023	3013	3033	3016	3025	3039	3034	3046
DNA extraction				◆				
DNA quantification	◆	◆		◆				
PCR thermo cycling	◆	◆						
PCR prep	◆	◆	◆	◆				
Vortexing	◆			◆	◆	◆		◆
Boiling	◆	◆			◆	◆		◆
Freezing to -90°C	◆	◆	◆	◆	◆	◆	◆	◆
Centrifuging to <14,000 x g	◆	◆	◆	◆	◆	◆	◆	◆
Centrifuging >14,000 <20,000 x g	◆			◆				
Centrifuging >20,000 <45,000 x g				◆				
Sequential centrifuging to 40,000 x g				◆				
Viscous protein mixing <14,000 x g				◆	◆	◆		
Viscous protein mixing >14,000 <40,000 x g				◆				
Refrigerated centrifugation to 0°C	◆	◆	◆	◆	◆	◆	◆	◆
Multiple reagent addition	◆			◆				
Medical lab processing							◆	
Single use procedure		◆						
Phenol/Chloroform extraction				◆				

SuperSlik™ Low Protein Binding Micro Centrifuge Tubes

Cat No.	Description	Unit	Case
	SuperSlik Micro Centrifuge Tubes in 0.5mL and 1.5mL		
	SuperSlik Low Protein Binding Surface micro centrifuge tubes are for use with sticky proteins. Designed to fit all popular micro centrifuges. These tubes are autoclavable, freezable, and are packed in resealable bags.		
3025-570	*0.5mL SuperSlik tube, Natural*	*500*	*5000*
3039-560	*1.5mL SuperSlik tube, Natural*	*250*	*2500*

Sterile Micro Centrifuge Tubes

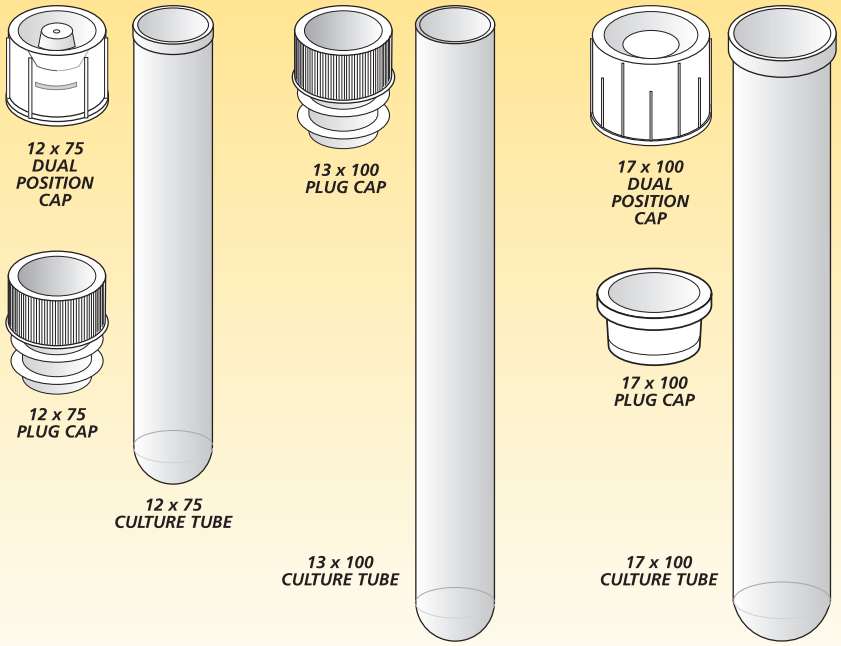
Cat No.	Description	Unit	Case
	Sterile 1.7mL Micro Centrifuge Tubes		
	Polypropylene. In sterile packaging. Spin to 14,000 RCF.		
3034-335	*Natural, Bag*	*500*	*5000*

2.0mL Tubes with Graduations

Cat No.	Description	Unit	Case
	2.0mL Tubes with Graduations		
	Tubes have frosted side labeling surface a thin membrane cap that can be pierced easily by a syringe. Resealable bag. Polypropylene. Spins to 14,000 RCF. Autoclavable.		
3046-870	*Natural*	*500*	*5000*
3046-874	*Red*	*500*	*5000*
3046-873	*Orange*	*500*	*5000*
3046-872	*Yellow*	*500*	*5000*
3046-878	*Green*	*500*	*5000*
3046-877	*Blue*	*500*	*5000*
3046-876	*Purple*	*500*	*5000*
3046-871	*Amber (for light sensitive samples)*	*500*	*5000*
3046-879	*Assorted*	*500*	*5000*

Cap Opener

Cat No.	Description	Unit	Case
	Cap Opener for 0.5, 0.65, 1.5, 1.7 and 2.0mL Snap Top Micro Centrifuge Tubes		
	Autoclavable. Polypropylene.		
2910-840	*Opener, Teal*	*5*	*50*



12 x 75, 13 x 100 and 17 x 100 tubes now in SuperClear Resin

SuperClear™ Disposable Culture Tubes

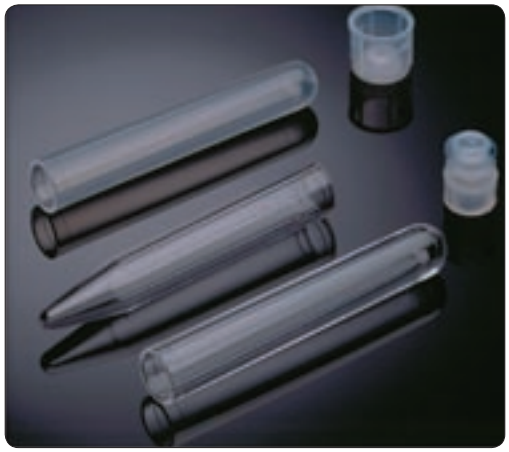
These precision-molded, round-bottom tubes are perfect for a multitude of general laboratory uses. Made of ultra clear virgin polypropylene in natural and colors or clear virgin polystyrene. Tube caps are of low density polyethylene for a secure seal and are available in a fluted plug style or dual position design that permits sample aspiration.

Polypropylene tubes are autoclavable to 122° C and freezable to -90° C. Polystyrene tubes are not autoclavable but have a nominal temperature range between 90° C and -40° C. Polyethylene caps are not autoclavable, but are available pre-sterilized with many tube configurations.

Polypropylene tubes can be centrifuged to 3000 RCF and polystyrene tubes will withstand 1500 RCF. (RCF; Relative Centrifugal Force, is not equivalent to RPM).

Labcon culture tubes are available in package configurations to suit your needs; including bulk and sterile packs.

Cat No.	Description		Unit	Case
12x75mm Conical Disposable Culture Tubes, 4ml Capacity				
3360-800	Polystyrene	Tubes only, Bulk	1000	1000
3361-800	Polypropylene	Tubes only, Bulk	1000	1000
3385-335	Polystyrene	Tubes w/dual position closures attached, Sterile	25	500
3386-335	Polypropylene	Tubes w/dual position closures attached, Sterile	25	500
12x75mm Disposable Culture Tubes with Caps, 5ml Capacity				
3315-800	Polystyrene	Tubes with separate dual position closures, Bulk	1000	1000
3316-800	Polypropylene	Tubes with separate dual position closures, Bulk	1000	1000
3328-355	Polystyrene	Dual position closures attached, 125/bag, Sterile	125	1000
3329-355	Polypropylene	Dual position closures attached, 125/bag, Sterile	125	1000
3335-335	Polystyrene	Dual position closures attached, 25/bag, Sterile	25	500
3336-335	Polypropylene	Dual position closures attached, 25/bag, Sterile	25	500
3342-335	Polystyrene	Plug cap attached, 25/bag, Sterile	25	500
3343-335	Polypropylene	Plug cap attached, 25/bag, Sterile	25	500
Dual-Position Caps Only for 12x75mm Disposable Culture Tubes				
3300-800	Polyethylene	Natural, Dual position closure, Bulk	1000	3000
12x75mm Disposable Culture Tubes without Caps, 5ml Capacity				
3305-800	Polystyrene	Bulk, Clear	3000	3000
3306-800	Polypropylene	Bulk, Natural	3000	3000
3310-800	Polystyrene	Bulk, Clear	1000	1000
3311-800	Polypropylene	Bulk, Natural	1000	1000
3311-802	Polypropylene	Bulk, Yellow	1000	1000
3311-803	Polypropylene	Bulk, Orange	1000	1000
3311-804	Polypropylene	Bulk, Red	1000	1000
3311-806	Polypropylene	Bulk, Purple	1000	1000
3311-807	Polypropylene	Bulk, Blue	1000	1000
3311-808	Polypropylene	Bulk, Green	1000	1000
3325-350	Polystyrene	125/tear strip bag	125	1000
3325-355	Polystyrene	125/tear strip bag, Sterile	125	1000
3326-350	Polypropylene	125/tear strip bag	125	1000
3326-355	Polypropylene	125/tear strip bag, Sterile	125	1000



12 x 75mm Round Bottom and Conical tubes with dual position or plug style caps.

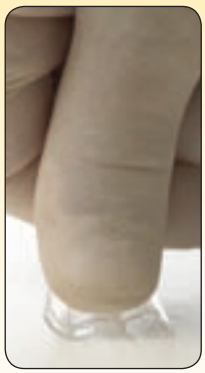
CULTURE TUBES

SuperClear™

Polypropylene tubes available in colors.

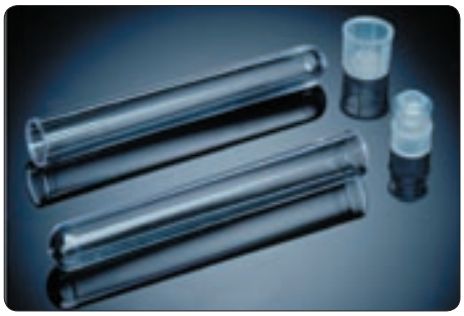
- *SuperClear™ resin*
- *Colored tubes available*
- *Medical grade packaging*
- *Thicker walls will not crush easily*

Labcon tubes heavy wall protects your sample

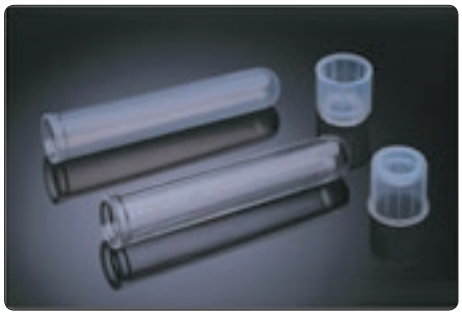


Popular brands of culture tubes have thin walls that crush easily

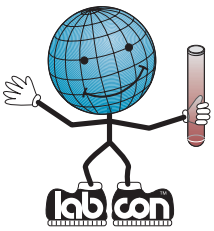
Cat No.	Description		Unit	Case
Plug-Type Caps Only for 12 x 75mm and 13 x 100mm Disposable Culture Tubes				
3302-800	*Polyethylene*	*Natural, Plug cap, Bulk*	*1000*	*3000*
3302-801	*Polyethylene*	*White, Plug cap, Bulk*	*1000*	*3000*
3302-802	*Polyethylene*	*Yellow, Plug cap, Bulk*	*1000*	*3000*
3302-803	*Polyethylene*	*Orange, Plug cap, Bulk*	*1000*	*3000*
3302-804	*Polyethylene*	*Red, Plug cap, Bulk*	*1000*	*3000*
3302-806	*Polyethylene*	*Purple, Plug cap, Bulk*	*1000*	*3000*
3302-807	*Polyethylene*	*Blue, Plug cap, Bulk*	*1000*	*3000*
3302-808	*Polyethylene*	*Green, Plug cap, Bulk*	*1000*	*3000*
3302-870	*Polyethylene*	*Assorted, Plug cap, Bulk*	*500*	*3000*
13 x 100mm Disposable Culture Tubes without Caps, 8ml Capacity				
3410-800	*Polystyrene*	*Bulk, Clear*	*1000*	*1000*
3411-800	*Polypropylene*	*Bulk, Natural*	*1000*	*1000*
3425-350	*Polystyrene*	*Tubes only, 125/bag*	*125*	*1000*
3426-350	*Polypropylene*	*Tubes only, 125/bag*	*125*	*1000*
3425-355	*Polystyrene*	*125/bag, Sterile*	*125*	*1000*
3426-355	*Polypropylene*	*125/bag, Sterile*	*125*	*1000*
17 x 100mm Disposable Culture Tubes without Caps, 14ml Capacity				
3510-800	*Polystyrene*	*Bulk*	*1000*	*1000*
3511-800	*Polypropylene*	*Bulk*	*1000*	*1000*
3525-355	*Polystyrene*	*125 tubes/bag, Sterile*	*125*	*1000*
3526-355	*Polypropylene*	*125 tubes/bag, Sterile*	*125*	*1000*
17 x 100mm Disposable Culture Tubes with Caps, 14ml Capacity				
3515-800	*Polystyrene*	*Tubes and Dual position closures, Bulk*	*1000*	*1000*
3516-800	*Polypropylene*	*Tubes and Dual position closures, Bulk*	*1000*	*1000*
3528-355	*Polystyrene*	*Dual position closures attached, 125/bag, Sterile*	*125*	*1000*
3529-355	*Polypropylene*	*Dual position closures attached, 125/bag, Sterile*	*125*	*1000*
3535-335	*Polystyrene*	*Dual position closures attached, 25/bag, Sterile*	*25*	*500*
3536-335	*Polypropylene*	*Dual position closures attached, 25/bag, Sterile*	*25*	*500*
CAPS ONLY for 17 x 100mm Disposable Culture Tubes				
3055-870	*Polyethylene*	*Natural, Plug cap, Bulk*	*500*	*1000*
3500-800	*Polyethylene*	*Natural, Dual position closure, Bulk*	*1000*	*1000*



13 x 100mm Round Bottom tubes with dual position and plug-type caps.



17 x 100mm Round Bottom tubes with dual position caps.



"These polypropylene tubes are clear enough to see color gradients."

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novedades : http://jblabsac.blogspot.com/

HighRecovery™ Aerosol Filter Pipet Tips with Pure Filters

HighRecovery tips provide you with complete protection from sample carry over. These tips incorporate a robotically inserted patented filter that is made from high molecular weight polyethylene. The filters allow the pipettor to draw by venting through a tortuous sponge-like pathway. The pores in this pathway have an average size of 10 microns, so even radionucleotides are captured before reaching the pipettor barrel.

0.1 - 30µL

- *For PCR, DNA manipulation, P^{32}*
- *Autoclavable*
- *Sample can be completely recovered without cutting into tip*
- *Prevents pipettor contamination from aerosols or fluids*
- *Lot certified purity*
- *Pure filters won't contaminate your work*

Now DNA tested

Proven Performance in Stopping Pipettor Contaminants

The data shown below summarizes the results of an aggressive independent study that looked at the ability of various brands of aerosol filter tips to prevent contamination from pipetting radionucleotides. With a background of 14, all brands tested blocked aerosols and kept cpm under twice the background.

Lot #	Manufacturer Catalog #	Aerosol Tip Brand	Tip # 1	Tip # 2	Tip # 3	Tip # 4	Tip # 5	Tip # 6	Tip # 7	Tip # 8	Tip # 9	Tip # 10	Average CPM
927014	2069	ART	13.7	64.7	21.3	12.9	23.9	11.6	18.6	17.3	10.6	21.3	21.59
612910401-01	016-160017	Biohit	22.4	14.5	10.9	4.6	22.7	15.8	12.3	8.05	18.7	16.5	14.69
H22126	4823	Corning Costar	12.3	27.5	20.4	15.9	17.5	12.6	13.4	12.8	15.3	13.7	16.14
0358	2249035-4	Eppendorf	28.4	23.2	18.4	9.9	9.9	14	4.5	11.6	20	12.8	15.27
9210	1054-965	HighRecovery™	29.5	9.5	17.9	11	3.3	16	25.7	12	12.9	18.5	15.63
2999G	HR-200F	Rainin	16.9	0	14.6	15.6	8.2	15	14.6	22.2	23.8	10.3	14.12
H22138	14220	Sorenson Multi	21.8	15.5	12.4	23	16.9	22.2	15.1	13.6	11.3	8.2	16.00

Each filter tip sample drew the maximum volume allowed by the tip of an aqueous solution containing 32P-ATP having a specific activity of 2,688, 615 cpm per mL. For each tip, the test solution was drawn and expelled five times. Tips were placed in sterile microcentrifuge tubes and sterile water was used to rinse the interior walls of the tips above the filter. The water was allowed to stand on the upper surface of the filter for 15 seconds, then immediately removed and added to scintilation fluid. Samples were then counted.

HighRecovery™ Aerosol Filter Pipet Tips Ensure Sample Integrity and Recoverability

HighRecovery™ — 10 micron

❶ DRAW

Actual photos show 100µL (maximum draw) drawn into a 40µL tip.

Photo 1 shows overdrawn fluid blocked but not absorbed by filter.

❷ DISPENSE

Photo 2 shows sample completely dispensed.

Patented.

Self-Sealing — 45 micron

Self sealing tip with 100µL drawn into 40µL tip.

Sample is absorbed into filter and cannot be dispensed

U.S. Patent #5,156,811

Hydrophobic Polyethylene — 20-30 micron

Aerosol tips recommended by pipettor manufacturer.

100µL drawn into tip passes through filter.

Generic filter

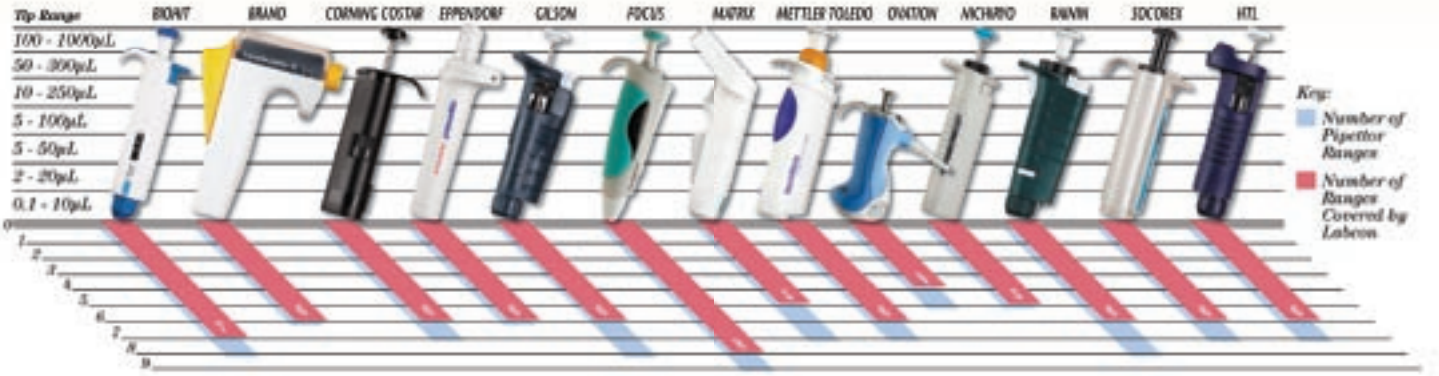
HighRecovery™ Aerosol Filters Won't Contaminate Your Sample

Aerosol Tip Brand	240nm	260nm	280nm	310nm	Average
ART	0.385	0.276	0.219	0.141	0.25525
Eppendorf	0.065	0.081	0.042	0.008	0.02870
Sorenson Multi	0.060	0.026	0.015	0.008	0.02730
Rainin	0.039	0.019	0.013	0.005	0.01900
Corning Costar	0.048	0.014	0.008	0.003	0.01825
Biohit	0.025	0.026	0.014	0.004	0.01725
HighRecovery™	0.003	0.004	0.001	0.003	0.00275

Two sets of thirty samples from each brand of filtered pipet tip were analyzed for this test. The tips were cut to eject the filter from the tip into sterile glass beakers. 10mL of TE buffer was added to each set of thirty filter samples. The beakers were sealed with parafilm and placed in a 65°C incubator for one hour. After incubation, the extraction fluid was analyzed using a UV/VIS spectrophotometer at 240, 260, 280, and 310nms. The results were recorded.

HighRecovery™ tips are made to eliminate contamination from the filter. The results of the study above show the high levels of impurity in some popular brands of filter tips. Contamination is so high with some of the tips that they could easily foul your results and interfere with PCR reactions.

HighRecovery™ Aerosol Filter Pipet Tips Fit the Pipettors You Really Use



LOT SPECIFIC

PURITY

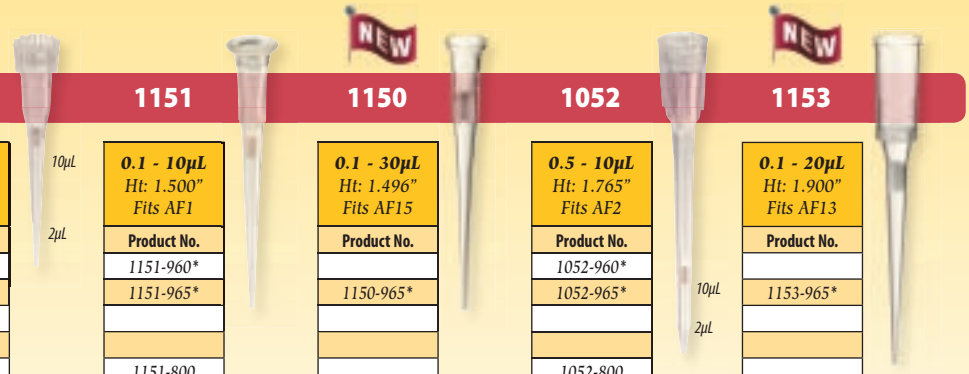
HighRecovery™ offers a complete family of high recovery tips for the pipettors you typically use. This chart shows there is a tip for micro pipettors in all popular ranges.

HighRecovery™ Aerosol Filter Pipet Tips Guarantee PCR Reliable Purity

Use HighRecovery™ tips in your lab work with confidence. All are manufactured robotically to preclude contamination. Every lot of tips produced is tested on the pipettors they are intended for, ensuring they fit and perform correctly. The resin used for tips is pretested before use to determine its extractables profile. Resins that have high levels of residue in the 240 to 310nm range are excluded from use. Aerosol filters are tested for endotoxin contaminants using a Chromogenic Assay U.S.P. testing method. All batches of product are tested for presence of nuclease (RNase and DNase) using an electrophoresis gel method after final packaging. A reaction test is run to certify there is no human DNA on these tips.

Every lot lab tested for purity

UltraFine™ point, 10, 20, 30µL

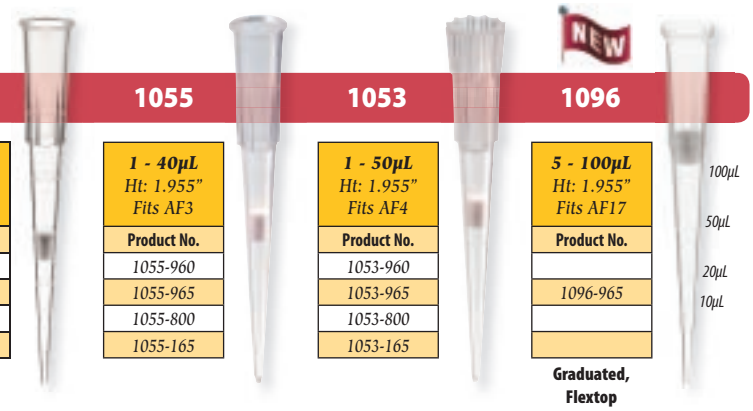


Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1051	1151	1150	1052	1153
				0.1 - 10µL Ht: 1.235" Fits AF1	0.1 - 10µL Ht: 1.500" Fits AF1	0.1 - 30µL Ht: 1.496" Fits AF15	0.5 - 10µL Ht: 1.765" Fits AF2	0.1 - 20µL Ht: 1.900" Fits AF13
				Product No.	Product No.	Product No.	Product No.	Product No.
A	96 Rack	1152	96RK	1051-960	1151-960*		1052-960*	
A	96 Rack (S)	1152	96RK	1051-965	1151-965*	1150-965*	1052-965*	1153-965*
C	Pagoda refill	864	PER	1051-290				
C	Pagoda Express refill (S)	864	PERS	1051-290-020				
E	Loose pack tips	1000	LP	1051-800	1151-800		1052-800	
F	Indiv. wrapped (S)	200	IW	1051-165				
				Graduated	Tubegard *960/pack	FlexTop™ *960/pack	Graduated *960/pack	*960/pack

See Fit Chart on page 22

Now DNA tested

10, 40, 50, 100 µL



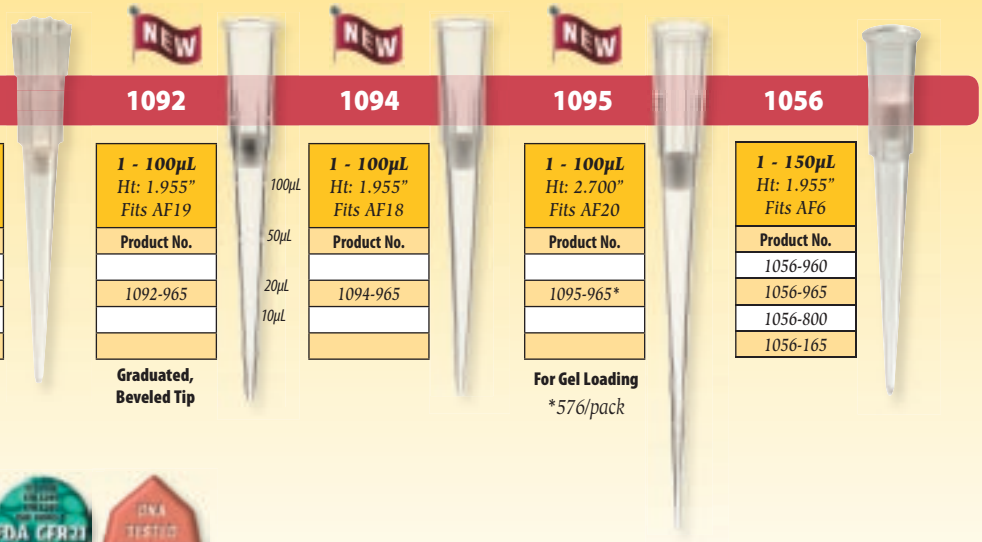
Case Qty.	Package	Qty. of Tips/Pack	Package Key	1091	1055	1053	1096
				0.5 - 10µL Ht: 1.955" Fits AF16	1 - 40µL Ht: 1.955" Fits AF3	1 - 50µL Ht: 1.955" Fits AF4	5 - 100µL Ht: 1.955" Fits AF17
				Product No.	Product No.	Product No.	Product No.
G	96 Rack	960	96RK		1055-960	1053-960	
G	96 Rack (S)	960	96RK	1091-965	1055-965	1053-965	1096-965
E	Loose pack tips	1000	LP		1055-800	1053-800	
F	Indiv. wrapped (S)	200	IW		1055-165	1053-165	
							Graduated, Flextop

Tips are actual size

LIQUID HANDLING

HighRecovery™ Aerosol Tips with SuperClear™ Resin

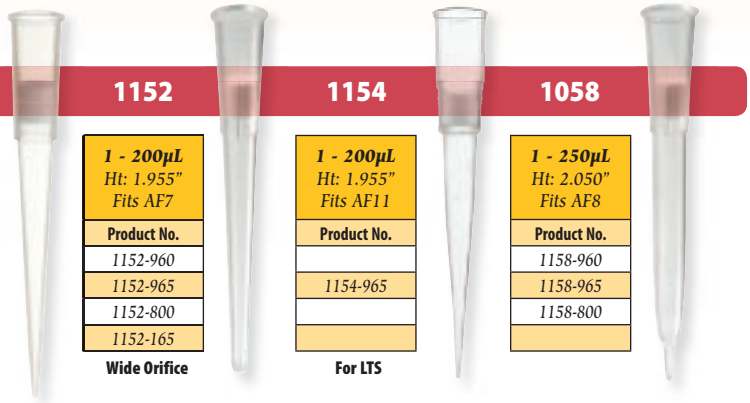
100, 150µL



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key
G	96 Rack	960	96RK
G	96 Rack (S)	960	96RK
E	Loose pack tips	1000	LP
F	Indiv. wrapped (S)	200	IW

	1054	1092	1094	1095	1056
	1 - 100µL Ht: 1.955" Fits AF5	1 - 100µL Ht: 1.955" Fits AF19	1 - 100µL Ht: 1.955" Fits AF18	1 - 100µL Ht: 2.700" Fits AF20	1 - 150µL Ht: 1.955" Fits AF6
Product No.	1054-960	1092-965	1094-965	1095-965*	1056-960
	1054-965				1056-965
	1054-800				1056-800
	1054-165				1056-165
		Graduated, Beveled Tip		For Gel Loading *576/pack	

200, 250µL



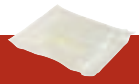
Case Qty.	Package	Qty. of Tips/Pack	Package Key
B	96 Rack	960	96RK
B	96 Rack (S)	960	96RK
E	Loose pack tips	1000	LP
F	Indiv. wrapped (S)	200	IW

	1059	1152	1154	1058
	1 - 200µL Ht: 2.059" Fits AF7	1 - 200µL Ht: 1.955" Fits AF7	1 - 200µL Ht: 1.955" Fits AF11	1 - 250µL Ht: 2.050" Fits AF8
Product No.	1059-960	1152-960		1158-960
	1059-965	1152-965	1154-965	1158-965
	1059-800	1152-800		1158-800
	1059-165	1152-165		
		Wide Orifice	For LTS	

Tips are actual size

Now DNA tested

PIPET TIPS PACKAGING OPTIONS KEY:



IW

Individually Wrapped

Pipet tips, individually wrapped, are packaged in thermal sealed polyethylene bags. These tips have been radiation sterilized. This package is designed to provide the highest assurance that the tips you use are pure.

LP

Loose Pack

Loose pack pipet tips are supplied in resealable polyethylene bags. These are not recommended if you plan to store the tips for long periods since warping can occur after long periods of storage in bags.

BK

Bulk Pack

This package is an inexpensive option when your budget is tight. Tips are supplied in one large bag inside a corrugated container. We also recommend you do not store these tips for long periods if warping is a concern.

96RK

96 Rack and 192 Rack

These racks offer workhorse reliability and versatility. They have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Smooth rounded edges and reinforced seal make these racks durable additions to your lab. Strong enough to be autoclaved many times. The separate rack insert includes a beveled top and extra sturdy surface for multi-channel pipetting. A vent in the rack sides allows steam autoclaving to be more efficient and assures your tips are sterile.

1-180µL, 1-200µl, 1-300µL

NEW

Case Qty.	Package	Qty. of Tips/Pack	Package Key	1098	1156	1158
				1 - 180µL Ht: 3.300" Fits AF21	*1 - 200µL Ht: 3.300" Fits AF7*	*1 - 300µL Ht: 2.875" Fits AF14*
				Product No.	Product No.	Product No.
B	96 Rack	576	96RK			
B	96 Rack (S)	576	96RK	1098-965	1156-965	1158-965
E	Loose pack tips	1000	LP			
F	Indiv. wrapped (S)	200	IW			
				Flextop, Ultrafine Point	Flextop, Ultrafine Point	Flextop, Ultrafine Point

1000, 1200, 1250µl

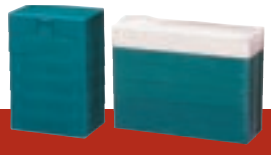
NEW

Case Qty.	Package	Qty. of Tips/Pack	Package Key	1097	1057	1157	1159	1155
				100 - 1000µL Ht: 2.998" Fits AF9	*100 - 1000µL Ht: 3.500" Fits AF9*	*100 - 1250µL Ht: 3.500" Fits AF10*	*101 - 1200µL Ht: 3.500" Fits AF22*	*100 - 1000µL Ht: 3.500" Fits AF12*
				Product No.	Product No.	Product No.	Product No.	Product No.
B	96 Rack	576	96RK		1057-960	1157-960	1159-960	
B	96 Rack (S)	576	96RK	1097-965	1057-965	1157-965	1159-965	1155-965
E	Loose pack tips	1000	LP		1057-800	1157-800	1159-800	
F	Indiv. wrapped (S)	200	IW		1057-165			
				Flextop, Ultrafine Point				For LTS

STK

96 and 192 Stack Racks

This package gives you the best of both worlds; low cost and a complete high quality rack. You assemble the rack yourself and insert the fully racked refills into the rack. Since you never touch the tips you don't have to be concerned about contamination from your hands or latex gloves. These stacks are very stable so you can pipet with a multichannel pipettor right from the stack.



SR

96 and 192 Stack Rack Refills

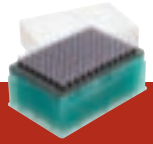
A slimmed down version of the package at left. With this package you get only the refills you need. Neatly packed, ready for you to refill the racks you already have. Once again, since you get a full rack in the refill, you don't have to work to fit tips into holes or worry about contamination from your hands or gloves.

PER, PERS

Pagoda Express Refills

Pagoda Express Refills, Sterile

Just like the Pagoda refills but do not include a hinged rack to refill. Use your existing racks with the Pagoda system. This is the most waste conscious package available in oriented pipet tips. By purchasing these refills 90% of the packaging waste is eliminated. All the materials are easy to recycle and you never have to touch the tips with your exposed or gloved hands.



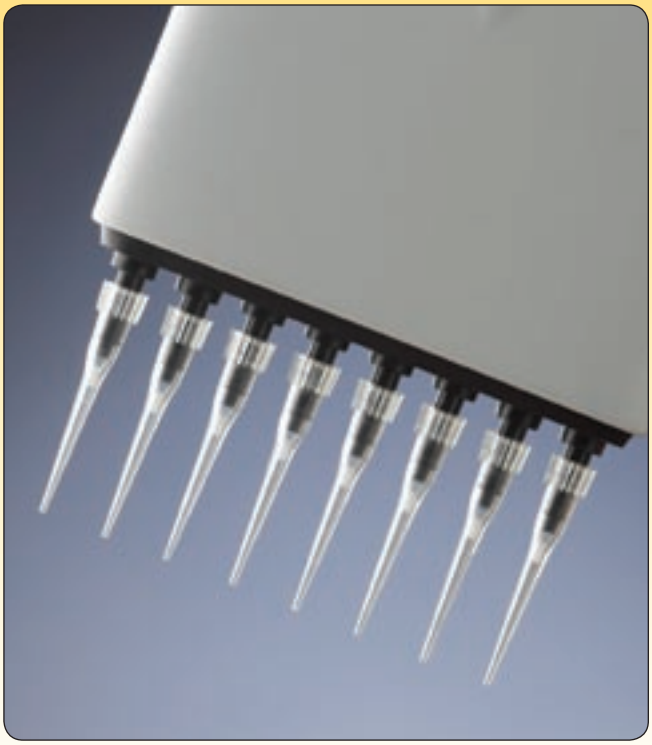
RR

Robotic Racks

These racks are designed to withstand the heavy load that automated pipettors exert on the racks. They have a special closed well structure that keeps each tip in its own well.

ZAP tips for PCR

Zero Aerosol Pipet tips from Labcon offer you a high value option to protect your pipettors in PCR applications. They include an integral porous filter medium that traps aerosols before they can reach and contaminate your pipettor barrel. Every lot of these tips is tested to ensure there are no PCR contaminants on the tip surfaces that can foul your work. Every rack has been labeled with the functional volume range of the tip and sterilized with irradiation using an ISO and AAMI validated sterilization process.

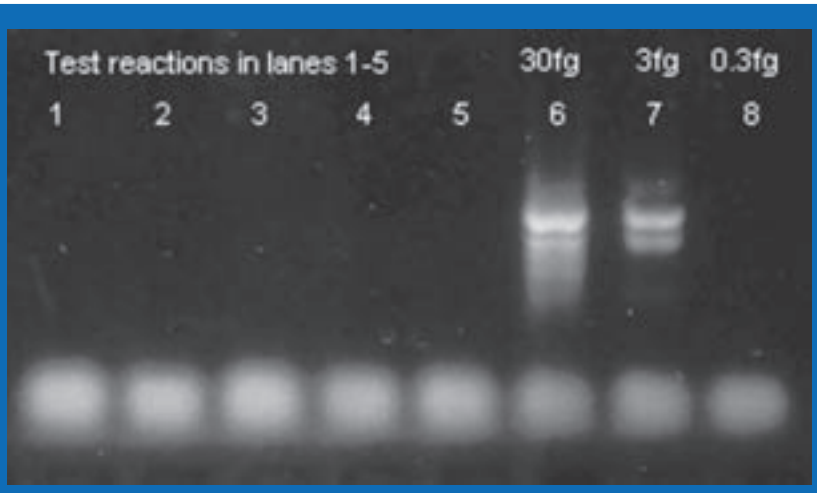


10µL ZAP™ tips

- *For PCR*
- *Valid Sterilization Dosing*
- *Lot tested free of Rnase and Dnase*
- *Volume Labeled racks*
- *Purity Guaranteed*

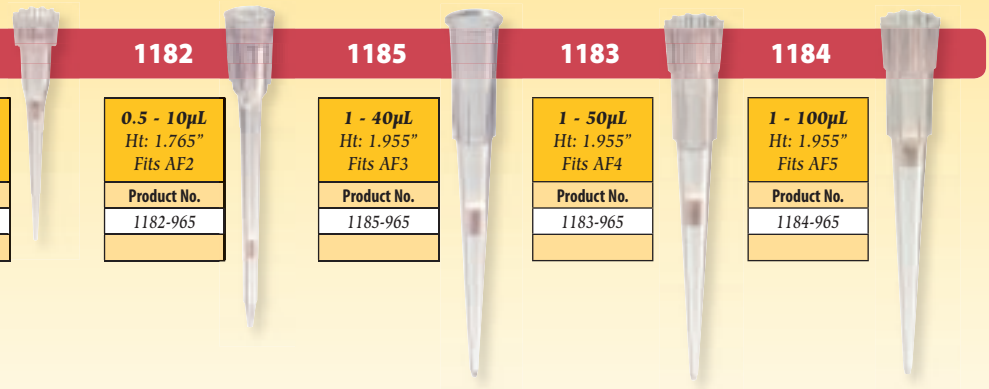
In order to test the ability of ZAP tips to block aerosol carryover (the transfer of amplifiable particles from the pipettor barrel) one side of each pipet filter was exposed to a PCR product. The other side of each filter was rinsed, and a PCR was then performed using the rinse as the template solution. By examining the results of this PCR it was determined that no DNA product from the first reaction has passed through the filters and that the filters successfully blocked PCR product carryover.

Below are the results of a complete study to determine the effectiveness of Zero Aerosol Pipet tips.



This photo shows the results of the actual test to determine if aerosol carryover can be stopped using ZAP tips. In the photograph lanes 1-5 are the results from each of the 5 test pipet tips. Lanes 6-8 contain product from the initial reaction at a concentration of 30fg/uL in lane 6, 3fg/uL in lane 7, and 0.3fg/uL in lane 8. Lanes 6 and 7 show strong signal present from Alu fragment amplification, while lanes 1-5 and lane 8 have no product from the Alu fragments. Thus, the filters successfully blocked carryover of DNA fragments and this very sensitive PCR could not detect any DNA contamination.

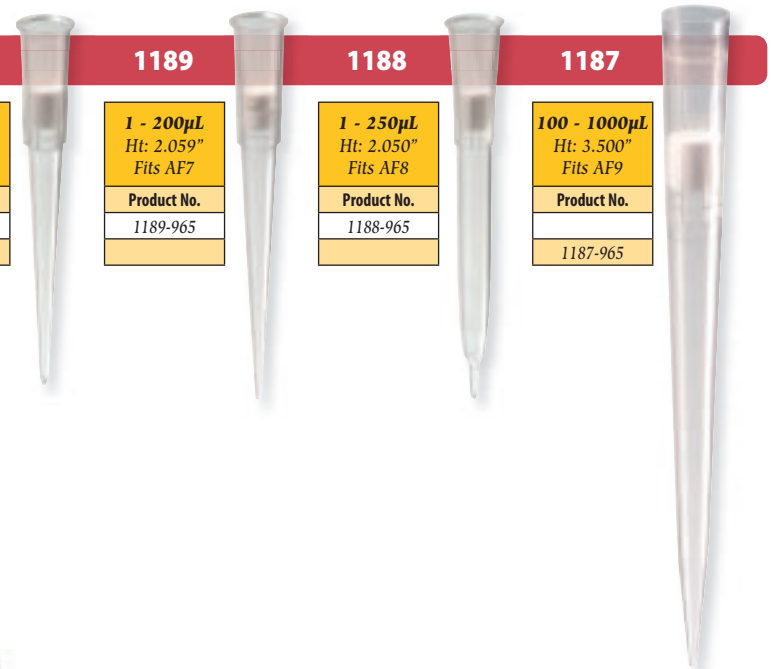
ZAP™ Tips



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1181	1182	1185	1183	1184
				0.1 - 10µL Ht: 1.235" Fits AF1	0.5 - 10µL Ht: 1.765" Fits AF2	1 - 40µL Ht: 1.955" Fits AF3	1 - 50µL Ht: 1.955" Fits AF4	1 - 100µL Ht: 1.955" Fits AF5
				Product No.	Product No.	Product No.	Product No.	Product No.
G	96 Rack (S)	960	96RK		1182-965	1185-965	1183-965	1184-965
A	96 Rack (S)	1152	96RK	1181-965				

See Fit Chart on page 22

ZAP™ Tips



Case Qty.	Package	Qty. of Tips/Pack	Package Key	1186	1189	1188	1187
				1 - 150µL Ht: 1.955" Fits AF6	1 - 200µL Ht: 2.059" Fits AF7	1 - 250µL Ht: 2.050" Fits AF8	100 - 1000µL Ht: 3.500" Fits AF9
				Product No.	Product No.	Product No.	Product No.
G	96 Rack (S)	960	96RK	1186-965	1189-965	1188-965	
B	96 Rack (S)	576	96RK				1187-965

Tips are actual size

All products on this page

LIQUID HANDLING

Aerosol Filter Tips Compatibility Chart

This information is believed to be true at the time of printing. However, instrument manufacturers routinely modify the designs of their products without notice. Please test the items above with the instrument shown before use.

POPULAR PIPETTES

		BIOHIT					BRAND		EPPENDORF				GILSON	
Tip Type	Page #	eLine	ePette	mLine	Proline Electronic	Proline(2)(5)	Transferpette	Transferpette Electronic	Electronic	Reference	Research Pro	Research	Pipetman	Pipetman Ultra
AF1	17,21	0.2-10	0.2-10	0.5-10	0.2-10	0.5-10	0.1-10	0.5-10	0.2-10		0.2-10µl	0.1-2.5µl, 0.5-10µl	P2/P10	U2, U10
AF1	17,21	0.2-10	0.2-10	0.5-10	0.2-10	0.5-10	0.1-10		0.2-10		0.2-10µl	0.1-2.5µl, 0.5-10µl	P2/P10	U2, U10
AF2	17,21		0.2-10				0.5-10				0.5-10µl			
AF3	17,21					5-50*		2-20	5-100*	2-20	5-100*	2-20,	P20	U20
AF4	17,21				5-100**	5-50,	5-50,		5-100**		5-100**	2-20,		
AF5	18,21		5-100	10-100	5-100	5-100	10-100	10-100	5-100	10-100	5-100	10-100		
AF6	18,21	5-120			5-100	5-50	20-200+			50-200+	5-100	20-200+	P200+	U200+
AF7	18,21		25-250	20-200	5-100	50-200	20-200	20-200	5-100	50-200	20-300++	20-200	P200	U200
AF7	18,19,21	5-120		20-200	5-100	50-200	20-200	20-200	5-100	50-200	20-300	20-200	P200	U200
AF7	18,19,21	5-120		20-200	5-100	50-200	20-200	20-200		50-200		20-200	P200	U200
AF8	18,21	20-300++	25-250	20-200		10-250	30-300			50-200	20-300++	20-200	P200	U200
AF9	19,21	50-1000	50-1200*, 50-1000	100-1000	50-1000*	200-1000	100-1000	100-1000		100-1000	50-1000	100-1000	P1000	U1000
AF9	19,21	50-1000	50-1200*, 50-1000	100-1000	50-1000*	200-1000	100-1000	100-1000		100-1000	50-1000, 50-1200 (to 1000)	100-1000	P1000	U1000
AF10	19													
AF11	18													
AF12	19													
A13	17													
AF14	19		25-250	20-200	25-250	20-200	30-300	20-200, 30-300		50-200	20-300	20-300	P200	U200
AF15	17	0.2-10*		0.5-10									P2/P10	U2, U10
AF16	17			2-20										
AF17	17					5-50,	5-50,					2-20,		
AF18	18		5-100	10-100	5-100	5-100	10-100	10-100	5-100	10-100	5-100	10-100	P100	U100
AF19	18		5-100	10-100	5-100	5-100	10-100	10-100	5-100	10-100	5-100	10-100	P100	U100
AF20	18		5-100	10-100	5-100	5-100	10-100	10-100	5-100	10-100	5-100	10-100	P100	U100
AF21	19		5-100	10-100	5-100	5-100	10-100	10-100	5-100	10-100	5-100	10-100	P100	U100
AF22	19	50-1200		50-1200	50-1200									

µl volume ranges shown

µl

OTHER PIPETTES

		CORNING			HAMILTON		HIGH TECH LAB		KENDALL	LABNET(6)		MATRIX		METTLER
Tip Type	Page #	8-Pette, 12 Pette	Octapette	Lambda	Softgrip	Softouch Electronic	Labmate	V3(7)	Oxford Benchmate	Labpette	Biopette E	Impact	Impact 2	Mettler Toledo
AF1	17,21			0.1-2.5, 0.5-10	0.2-2, 1-10	0.2-10	0.2-10	0.5-10	0.5-10	0.5-10	0.5-10			0.1-2.5, 0.5-10
AF1	17,21			0.1-2.5, 0.5-10	0.2-2, 1-10	0.2-10	0.2-10	0.5-10	0.5-10	0.5-10	0.5-10			0.1-2.5, 0.5-10
AF2	17,21													
AF3	17,21			2-20,	2.5-25		2-20	2-20		2-20,				2-20,
AF4	17,21			2-20,			5-50				5-50			
AF5	18,21			10-100	10-100	5-100	10-100	10-100		10-100				10-100
AF6	18,21			20-200+			20-200+	20-200+		20-200+		2-125	2-125	20-200+
AF7	18,21	20-200	25,50,100,200	20-200			20-200	20-200	10-200	20-200		2-125	2-125	20-200
AF7	18,19,21	20-200		20-200			20-200	20-200	10-200	20-200		2-125	2-125	20-200
AF7	18,19,21	20-200	25,50,100,200	20-200	10-100		20-200	20-200	20-200, 40-200	20-200		5-250	5-250	
AF8	18,21	20-200		20-200			20-200, 50-200	20-200	10-200	20-200	50-300	5-250	5-250	20-200
AF9	19,21			100-1000	100-1000		200-1000	100-1000	200-1000	100-1000				100-1000
AF9	19,21			100-1000	100-1000		20-1000	100-1000	200-1000	100-1000				100-1000
AF10	19											15-1250	15-1250	
AF11	18													
AF12	19													
AF13	17													
AF14	19	20-200			30-300	25-250	20-200, 50-200			20-200, 50-300	50-300	5-250	5-250	
AF15	17											0.5-12.5, 30**	0.5-12.5, 30**	
AF16	17													
AF17	17			2-20,			5-50				5-50			
AF18	18			10-100	10-100	5-100	10-100	10-100		10-100				10-100
AF19	18			10-100	10-100	5-100	10-100	10-100		10-100				10-100
AF20	18			10-100	10-100	5-100	10-100	10-100		10-100				10-100
AF21	19			10-100	10-100	5-100	10-100	10-100		10-100				10-100
AF22	19													

µl volume ranges shown
µl

POPULAR PIPETTES

Tip Type	Page #	RAININ						THERMO				
		Rainin EDP3	EDP1	EDP1 with LTS	Rainin Latch Mode	Pipet Lite with (LTS)	Pipet Plus with (LTS)	Finnpipette Digital(3)	Finnpipette Focus	Finnpipette Biocontrol	Finnpipette Digital 16	Finnpipette Novus
AF1	17,21	0.5-10	0.5-10		R2/R10			0.2-10, 0.5-10	0.3-3, 0.5-5, 1-10	0.5-10		1-10
AF1	17,21	0.5-10	0.5-10		R2/R10			0.2-10, 0.5-10	0.3-3, 0.5-5, 1-10	0.5-10		1-10
AF2	17,21											
AF3	17,21	2-20µl	2-20		R20			2-20	1-10, 3-30	5-40		
AF4	17,21							5-50,		5-50		5-50
AF5	18,21	10-100	10-100		R100			10-100	10-100			10-100
AF6	18,21				R200+			20-200+		40-200+		
AF7	18,21	20-200	20-200		R200			20-200		40-200		
AF7	18,19,21	20-200			R200			20-200		40-200		
AF7	18,19,21		20-200						30-300++++			
AF8	18,21	20-200			R200			20-200		40-200		
AF9	19,21	100-1000	100-1000		R1000			100-1000, 200-1000	100-1000	200-1000		100-1000
AF9	19,21	100-1000	100-1000		R1000			100-1000, 200-1000	100-1000	200-1000		100-1000
AF10	19											
AF11	18			10-100, 20-200		10-100, 20-200	10-100, 20-200					
AF12	19			100-1000		100-1000	100-1000					
A13	17			0.1-2, 0.5-10, 2-20		0.1-2, 0.5-10, 2-20	0.1-2, 0.5-10, 2-20					
AF14	19		20-300						30-300			30-300
AF15	17											
AF16	17								1-10			
AF17	17							5-50		5-50		5-50
AF18	18	10-100	10-100		R100			10-100	10-100			10-100
AF19	18	10-100	10-100		R100			10-100	10-100			10-100
AF20	18	10-100	10-100		R100			10-100	10-100			10-100
AF21	19	10-100	10-100		R100			10-100	10-100			10-100
AF22	19											

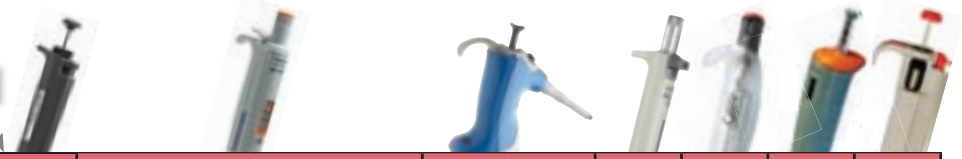
*to maximum 40µl; **to maximum 50µl;
+to maximum 160µl; ++to maximum 200µl;
+++to maximum 250µl; ‡ **requires barrel #9057-1016**;

(1) Also labeled as Matrix, Axypette; (2) Also labeled as Jencons Sealpette, Ratiolab and as Genex; (3) Also labeled as Fisherbrand; (4) Also labeled as MLT Ultron; (5) Also labeled as Starpet; (6) Also labeled as Genemate; (7) Also labeled as Labnet

For trademark references, see inside front cover.

µl volume ranges shown
µl

OTHER PIPETTES



Tip Type	Page #	NICHIRYO	SOCOREX				VISTALAB		WHEATON	CAPP	POULTON	WORLD PREC. INSTRUMENTS
		5000DG, Nichipet EX	Acura 825, 815	Acura 855	Calibra	Electro	MLA	Ovation	Wheaton	Aero(1)	Volac	Eagle
AF1	17,21	0.5-10	0.1-2, 5-10	0.5-10		0.5-10		0.2-2,1-10				E2, E10
AF1	17,21	0.5-10						0.2-2,1-10				E2, E10
AF2	17,21		0.4-10		0.4-10				0.4-10	0.5-10	0.5-10	E2, E10
AF3	17,21		1-10, 2-20								2-20	E20
AF4	17,21		5-50	5-50			10-50			5-50	5-50	
AF5	18,21	10-100					10-50	10-100				E100
AF6	18,21	20-200+						20-200+				
AF7	18,21	20-200, 40-200	20-200	20-200	10-200	10-200	50-200	20-200,40-200	10-200	25-200	40-200	E200
AF7	18,19,21	20-200	20-200	20-200	10-200		50-200	20-200	10-200	25-200	40-200	E200
AF7	18,19,21	20-200, 40-200			20-200			20-200		25-200		
AF8	18,21	20-200					50-200	20-200				
AF9	19,21	100-1000	100-1000		200-1000	50-1000		100-1000‡	200-1000	100-1000	200-1000	E1000
AF9	19,21	100-1000	100-1000		200-1000	50-1000		100-1000‡	200-1000	100-1000	200-1000	E1000
AF10	19											
AF11	18											
AF12	19											
AF13	17											
AF14	19	20-200, 40-200						20-200,40-200		25-200, 50-300		
AF15	17							1-10				
AF16	17											
AF17	17		5-50	5-50			10-50			5-50	5-50	
AF18	18	10-100	10-100				10-50	10-100			20-100	E100
AF19	18	10-100	10-100				10-50	10-100			20-100	E100
AF20	18	10-100	10-100				10-50	10-100			20-100	E100
AF21	19	10-100	10-100				10-50	10-100			20-100	
AF22	19											

To choose pipette tips to meet your needs:

1. **FIND YOUR PIPETTE BRAND IN THE CHART ABOVE**
2. **FIND THE PIPETTE VOLUME AND RANGE YOU USE**
3. **FIND THE TIP TYPE CODES FOR YOUR PIPETTE**
4. **VISIT PAGES LISTED TO THE RIGHT OF THE TIP TYPE**

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novedades : http://jblabsac.blogspot.com/

More Value Than Expected

We focus on providing you with consistently high value products you can count on in your research. Our pipet tips are available in the broadest array of choices that you can find from any pipet tip manufacturer anywhere in the world. We offer loose bag, bulk bag, individually wrapped, 96 hinged rack, double wide 192 hinged rack, 100 hinged rack, 96 and 384 Roborack™, Stack Rack, and Pagoda® Refills in sterile and non sterile packages for more than 76 tip styles.

Professional Grade Resins

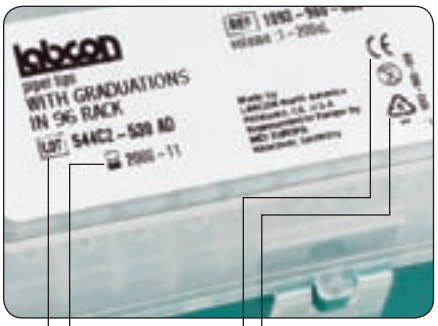
All the pipet tips we make are made starting with high quality non-cytotoxic medical grade 100% virgin polypropylenes. Many of our resins are formulated exclusively for us to our specifications. We avoid the low quality commodity resins and recycled plastic like others use and pre-test all new resins in our research lab from molded samples. These samples are analyzed to see if extractables that interfere with PCR or DNA are present. Although common in polypropylene we exclude from use those resins with these contaminants since they can cause you unpredictable lab results.

The Art of Pipet Tips

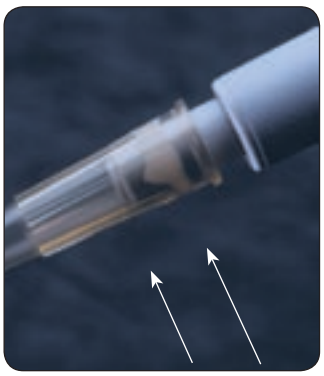
Pipet tip design is an art. Most pipet tips are designed to fit only one pipettor brand. All pipet tips from pipettor manufacturers are made this way. We design our tips to fit a multitude of pipettors well. A much tougher challenge. With our tips a lab can use one supply of tips for virtually all the pipettors they have. And since our ISO 9001 registered design process guarantees we have thoroughly tested the tips we make you can use our tips with confidence year after year.

Choose Your Tips, Then your Pipettor

Although most people decide on a pipettor brand first and then the pipet tips you might do well to consider doing the opposite. Your investment in pipet tips over the life of the pipettor will far exceed the investment you have in the pipettor. Try a range of tips on several pipettors you are evaluating. Check for fit, ease of ejection, quality, and packaging options, and overall value. Then purchase a pipettor that works with the tips you have decided to standardize with.



- *Expiration date on every rack*
- *Lot coding on each rack for your security*
- *Coded for recycling — polypropylene labels recycle with rack*
- *CE IVD compliant*



Wide seal area

Wide Seals Are Always Better

Our pipet tips are designed with wide sealing areas instead of sealing rings. Sealing rings limit the seal area to tiny contact spots. A wider seal assures that tips will seal easily and consistently without leaking on old as well as new pipettors.

Quality Beyond Assurance

Through more than 45 years of experience we have developed an exclusive 26 step quality process to provide you with consistent measurable quality. Many people talk about quality. Labcon proves our commitment to quality before registered independent auditors every 6 months. Our validated ISO 9001:2000 quality system is now registered in the U.S., Japan, and the European Union. Every style tip we make is tested lot by lot, every day, hour by hour using a valid documented sampling method. We check for fit, function, reproducibility, accuracy, liquid retention, contamination, clarity, ease of ejection, and smooth open orifice. Labcon is also the only major supplier of pipet tips in the world to operate from a U.S. Food and Drug Administration registered facility.

Laboratory Developed and Tested

In 1996 we built and equipped our own research laboratory that we use to test and develop our products, resins, methods, and other competing products. This investment in equipment and staff lets us duplicate the environment for our products and the protocols you use. In this way you can have full confidence that we have anticipated what you might encounter when using Labcon products.

All our pipet tips in this catalog are made with high quality non-cytotoxic medical grade 100% radiation stabilized virgin polypropylene. These resins are pre-tested from molded samples to determine if extractables that interfere with PCR or DNA are present. Although common in most polypropylenes, we exclude from use those resins that have high levels of extractables in the 240 to 320nm range, as they would interfere with your ability to quantify DNA.

What is Pre-Sterilized? Irradiated? Gamma Processed?

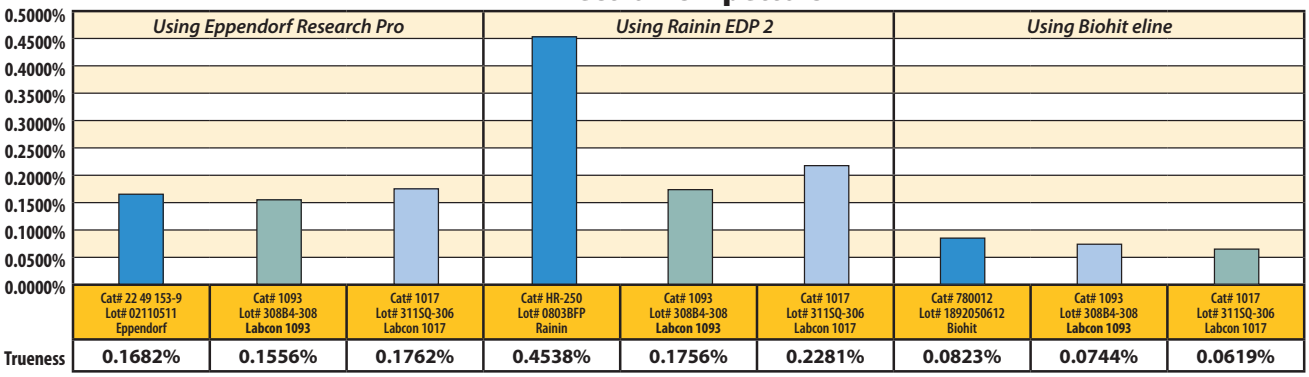
Labcon sterile products have been certified sterile using a validated medical sterile process. Some others offer irradiated or "pre-sterile" product without any sterile testing or label their product "for research only". This means they have not done the work to qualify their product as really being sterile. We follow the ISO 11137 procedures for sterility. Our sterile products are labeled sterile and all bioburden studies have been completed and are on file. So when you get sterile product from us, it really is. We also only use the higher quality Radiation Stabilized medical grade resins. Many other suppliers use cheaper grade commodity resins in their tips and then use the less reliable Beta, or "E-Beam" sterilization process to prevent their tips from yellowing. Labcon uses the more acceptable Gamma Irradiation process that ensures your product is really sterile. That's why you will notice our pipet tips and tubes are flexible and fit better. Not stiff and brittle like other suppliers.

Labcon Pipet Tips Outperform Original tips

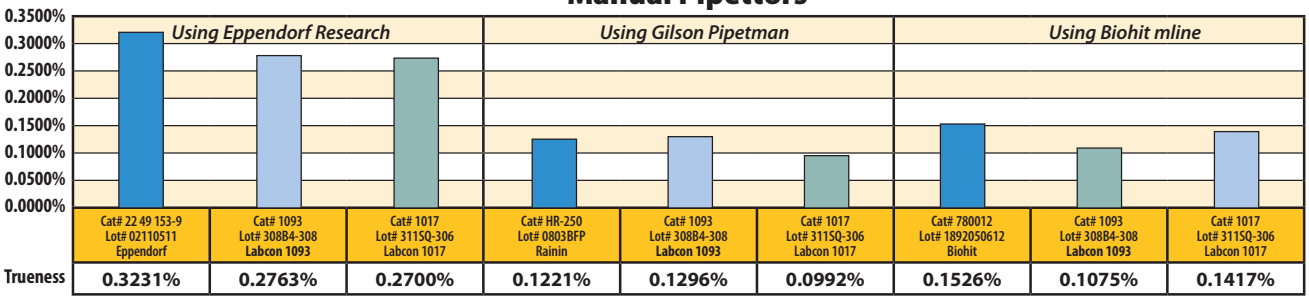
Most pipettor manufacturers state that their pipettors perform best when used with their own brand of pipet tips. We put that claim to the test with three well known brands of pipettors. In all the tests summarized below and the data shown on page 27 we used a well known pipettor and the tips recommended by the pipettor manufacturer.

To make this an even more difficult test we did not calibrate the pipettor for Labcon tips. Instead we left the pipettor set to the calibration we found it with. This method more readily matches the performance testing required for ISO 8655 certification.

Electronic Pipettors



Manual Pipettors



Best results are in green; lower % is better.

See charts on page 26.

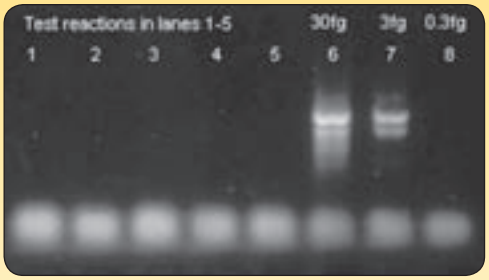
MANUAL PIPETTORS TEST

Tip Brand/Tip Data	Dim.	DATA (1-20)										Min.	Max,	Median	Mean	CV
Eppendorf Research																
Eppendorf	0.1997	0.2008	0.2008	0.1996	0.1994	0.1988	0.1995	0.1991	0.1987	0.1988	0.1988	0.1985	0.2008	0.1994	0.1994	0.3231%
Cat.#22 49 153-9; Lot #02110511 1135		0.1998	0.1993	0.1985	0.2003	0.1995	0.1995	0.1994	0.1990	0.1992	0.1989					
Labcon 1093	0.1997	0.2009	0.2000	0.1992	0.1991	0.1994	0.1984	0.1996	0.1994	0.1991	0.1992	0.1984	0.2009	0.1993	0.1994	0.2763%
Cat.#1093; Lot #308B4-308		0.1998	0.1992	0.1989	0.1999	0.1997	0.1997	0.1993	0.1987	0.1989	0.1989					
Labcon 1017	0.1997	0.2005	0.2002	0.2007	0.1995	0.1992	0.1990	0.1992	0.1991	0.1992	0.1993	0.1985	0.2007	0.1993	0.1995	0.2700%
Cat.#1017; Lot #311SQ-306		0.1995	0.1985	0.1990	0.2001	0.1995	0.1995	0.1992	0.1993	0.1991	0.1995					
Gilson P-200																
Rainin	0.1997	0.2002	0.1999	0.1993	0.1996	0.1996	0.1996	0.1995	0.1997	0.1995	0.1995	0.1993	0.2002	0.1996	0.1997	0.1221%
Cat.#HR-250; Lot #0803BFP		0.2001	0.1996	0.1996	0.1997	0.1993	0.2001	0.1996	0.1995	0.1996	0.1996					
Labcon 1093	0.1997	0.1997	0.1996	0.1999	0.1996	0.1994	0.1995	0.1995	0.1996	0.1997	0.1995	0.1990	0.1999	0.1995	0.1994	0.1296%
Cat.#1093; Lot #308B4-308		0.1992	0.1993	0.1992	0.1993	0.1991	0.1999	0.1993	0.1992	0.1990	0.1992					
Labcon 1017	0.1997	0.1998	0.1996	0.1995	0.1997	0.1996	0.1997	0.1995	0.1999	0.1999	0.1997	0.1993	0.2000	0.1996	0.1996	0.0992%
Cat.#1017; Lot #311SQ-306		0.1995	0.1985	0.1990	0.2001	0.1995	0.1995	0.1992	0.1993	0.1991	0.1995					
Biohit Proline 50-200																
Biohit	0.1997	0.2005	0.2005	0.2000	0.2005	0.1999	0.1997	0.2002	0.2002	0.1996	0.1998	0.1996	0.2005	0.2000	0.2000	0.1526%
Cat.#780012; Lot #1892050612		0.2003	0.2000	0.1999	0.2002	0.1997	0.1996	0.2001	0.1998	0.1996	0.1998					
Labcon 1093	0.1997	0.2002	0.2000	0.1999	0.2001	0.1997	0.2002	0.2002	0.2000	0.2000	0.1997	0.1995	0.2002	0.1999	0.1999	0.1075%
Cat.#1093; Lot #308B4-308		0.1998	0.1999	0.2000	0.1998	0.1996	0.1996	0.2001	0.1997	0.1998	0.1995					
Labcon 1017	0.1997	0.2005	0.2002	0.2001	0.2001	0.2002	0.2002	0.2004	0.2004	0.2001	0.1997	0.1994	0.2005	0.2001	0.2000	0.1417%
Cat.#1017; Lot #311SQ-306		0.2001	0.2000	0.2000	0.1998	0.1994	0.1996	0.2001	0.1997	0.1999	0.1998					

ELECTRONIC PIPETTORS TEST

Tip Brand/Tip Data	Dim.	DATA (1-10)										Min.	Max,	Median	Mean	CV
Eppendorf Research Pro 20-300µL Electronic at 200µL																
Eppendorf Lot #02110511 1135		0.1991	0.1990	0.1989	0.1989	0.1985	0.1984	0.1985	0.1980	0.1985	0.1987				0.1987	0.1682%
Labcon 1093 Lot #308B4-308		0.1993	0.1992	0.1988	0.1989	0.1986	0.1985	0.1985	0.1985	0.1985	0.1985				0.1987	0.1556%
Labcon 1017 Lot #311SQ-306		0.1095	0.1078	0.1091	0.1096	0.1093	0.1091	0.1090	0.1091	0.1091	0.1088				0.1091	0.1762%
Using Rainin EDP2 at 100µL																
Rainin Lot #0803BFP		0.1095	0.1078	0.1091	0.1096	0.1093	0.1091	0.1090	0.1091	0.1091	0.1088				0.1091	0.4538%
Labcon 1093 Lot #308B4-308		0.1091	0.1091	0.1091	0.1091	0.1088	0.1088	0.1090	0.1088	0.1087	0.1086				0.1089	0.1756%
Labcon 1017 Lot #311SQ-306		0.1093	0.1092	0.1092	0.1092	0.1091	0.1086	0.1089	0.1088	0.1088	0.1087				0.1089	0.2281%
Using Biohit eLine e300 at 200µL																
Biohit Lot #1892050612		0.1986	0.1984	0.1982	0.1981	0.1982	0.1981	0.1984	0.1984	0.1982	0.1984				0.1983	0.0823%
Labcon 1093 Lot #308B4-308		0.1986	0.1983	0.1983	0.1984	0.1982	0.1981	0.1983	0.1983	0.1985	0.1982				0.1983	0.0744%
Labcon 1017 Lot #311SQ-306		0.1987	0.1985	0.1985	0.1986	0.1984	0.1983	0.1985	0.1985	0.1985	0.1983				0.1985	0.0619%

Note: Cat.# for tips in electronic pipettor test are the same as Manual pipettor test.



Nuclease (Rnase and Dnase)

This is our proprietary assay to detect nucleases and is performed on every lot of product after final packaging. Certificates showing the results of the testing are kept on file for every lot of product. These, and all our lab test certificates are available to end users upon request.

Endotoxin

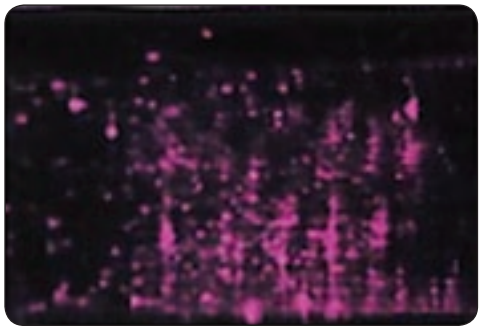
Using the kinetic turbidimetric lymulus amebocyte lysate assay we test every sterile lot of pipet tips, centrifuge tubes, microtubes, and culture tubes for endotoxin contamination. All sterile products must show endotoxin levels of less than 0.05EU/mL. This level of assurance is greater than that permitted for medical devices.

DNA

Using a laboratory developed protocol we test for the prescence of Human DNA on our HighRecovery Aerosol Filter Pipet Tips and PCR products. These products are certified to be pure of Human DNA to a detection level of less than 1 picogram of DNA.

Protease

Labcon developed the first industry assay for protease detection on labware in 2002. We now certify our SuperSlik low binding pipet tips are free of detectable protease contamination. This makes these tips perfect for protein research.



Bioburden and Sterile Validation

Studies to detect any microbial contamination on products are done according to AAMI/ISO 11137-1994 guidelines and are performed every three months by an outside laboratory. This data is used to determine the radiation level needed for sterilization and allows us to guarantee a sterility assurance level (SAL) between 10^{-5} and 10^{-6} for all our sterile products.

Metals

The U.S.P (231) test for heavy metals is completed for all the resins we use and must show results less than 1 ppm as proscribed by this test protocol.

Resin Validation

All resins are checked before we accept them for use to determine if they contain extractables that may interfere with spectroscopy.

Patented tip platform locking

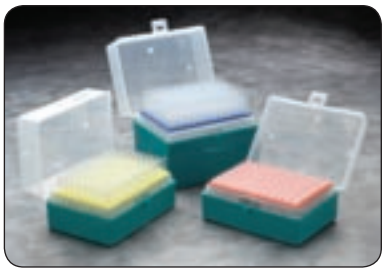
Pagoda for 0.1 - 250µL tips

Pagoda Plus for 0.1 - 1250µL tips

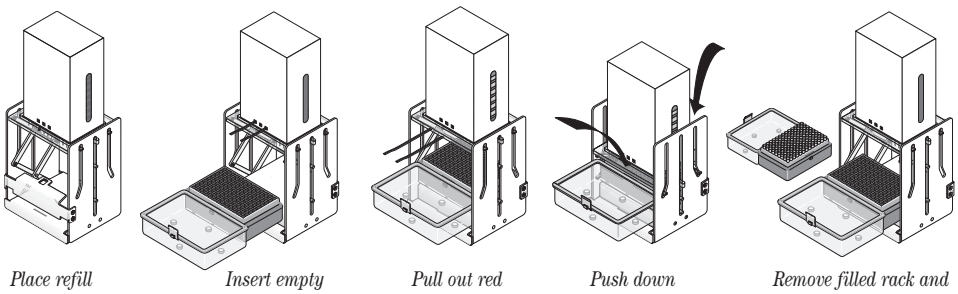
- *90% less waste than pre-racked tips*
- *16 tip styles for all popular pipettors*
- *Reusable loader cuts up to 5 times the waste of hand refilling systems*
- *Hands never touch the tips even in gloves*
- *Rnase, Dnase, endotoxin free certified in every lot*
- *Color coded refill platforms*

The Pagoda and Pagoda Plus systems from Labcon let you reload pipet tip racks with quality Labcon tips in a fraction of the time it takes you to reload by hand. You not only save time, you save cost and our environment by eliminating the need to throw away tip racks. And since you can refill racks without touching the tips you won't expose your tips to contamination unlike other refilling systems.

Not only is the Pagoda simple to use and greatly reduces your pipet tip waste, there are more styles of tips available in Pagoda refills than any other refilling system in the world. Why not give yourself a break and help the environment today with the Pagoda and Pagoda Plus systems.



Color coded tip platforms



Place refill stack onto loader....

Insert empty rack into loader....

Pull out red safety tabs...

Push down on sides of loader...

Remove filled rack and insert next empty rack into loader. Recycle.

Pagoda keeps tips clean, unlike other systems and uses up to 5x less plastic than other refill systems.

*...up to **5x** as much waste*

*...up to **2x** as much waste*

Pagoda Refills have less waste

Pagoda® Plus Loaders

Pagoda Plus Loaders work with any size Labcon pipet tip from 0.1-10µL up to 1250µL. Refillable racks are required for loader and are sold separately. Pagoda Plus Loaders work with any rack shown below.

Cat No.	Description	Unit	Case
9018-110-002	*Pagoda Plus Loader, Yellow*	*1*	*1*
9018-110-004	*Pagoda Plus Loader, Red*	*1*	*1*
9018-110-007	*Pagoda Plus Loader, Blue*	*1*	*1*

Pagoda Plus Loaders work with all racks listed below

Pagoda Plus, available in Red, Yellow or Blue

Original Pagoda® Loaders

Pagoda Loaders work with Labcon pipet tips from 0.1-10µL up to 250µL. Refillable racks are required for loader and are sold separately. Pagoda Loaders work with racks shown below, except racks for 100-1250µL tips.

Cat No.	Description	Unit	Case
9015-110	*Pagoda Loader, Blue*	*1*	*1*

Pagoda Loader works with racks listed below, except for 100-1250µL tips

Refillable Racks for Pagoda® and Pagoda® Plus Loaders

Hinged refillable autoclavable racks for refills. Pagoda loaders work with Labcon pipet tips from 0.1-10µL up to 250µL. Pagoda Plus Loaders work with Labcon pipet tips from 0.1-10µL up to 1250µL tips.

Cat No.	Description	Unit	Case
1289-960	*Racks for 10µL Tips*	*12*	*120*
1280-960	*Racks for 1-250µL Tips*	*10*	*100*
1279-960	*Racks for 100-1250µL Tips*	*6*	*48*

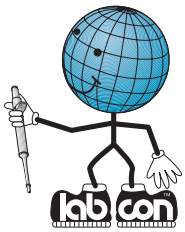
Color coordinate and organize your tips with assorted color refillable racks

Assorted Color Refillable Racks

Includes Yellow, White, Blue, Green and Purple in same package.

Cat No.	Description	Unit	Case
1280-969	*Racks for 1-250µL Tips*	*10*	*100*
1279-969	*Racks for 100-1250µL Tips*	*6*	*48*

"Only Pagoda refills racks without having to expose the tips"



Pagoda Express Refills (-290-020)
See pages 31-37 for Pagoda refills.

Classic Tips

Our Classic™ pipet tips include as standard many features available from other suppliers only as special upgrades. All the Classic tips we make are made of high quality 100% pure virgin medical grade polypropylene so you won't find recycled plastics in our tips. We pre-test the resin to ensure no extractables are present. Every lot is lab tested and certified free of detectable Nuclease (Rnase/Dnase). Sterile products are tested for Endotoxin (pyrogen) contamination and certified to U.S.P. results. Resins are pre-tested for metal contamination. Certificates are on file with us by lot number for all test results.

The list at right notes the special features of Classic™ tips shown on pages 28-33. See page 35 for case quantity information. Testing certification information is shown on page 25. Fit charts are shown on pages 36-37.

Every rack labeled with important information

S Silicone entrained in the polypropylene formula prelubricates these tips for use with sticky DNA or other viscous materials. Allows you to set your equipment to screen out silicone.

P Protease Free Low Binding pipet tips are made from a proprietary modified polypropylene resin. The resin helps increase the contact angle of fluids and lets you dispense the maximum amount of sticky DNA molecules. They are up to 6 times better at dispensing viscous samples than ordinary tips. Lot tested to be free of protease contaminants and Human DNA.

G These tips have graduations on the outside of the tip to help you visually confirm the pipettor draw during use.

W Extra wide opening allows you to pipet macrophages or sticky whole cells. Beveled end helps eliminate carry over from viscous solutions. Orifice is 0.0057".

U Pipet tips with Ultrafine point feature a thin flexible section at the end that is non beveled and very flexible. This helps you dispense the last tiny amount of sample from the tip.

B Pipet tips that feature beveled points are designed to retain less fluid and are a good choice for a multitude of procedures.

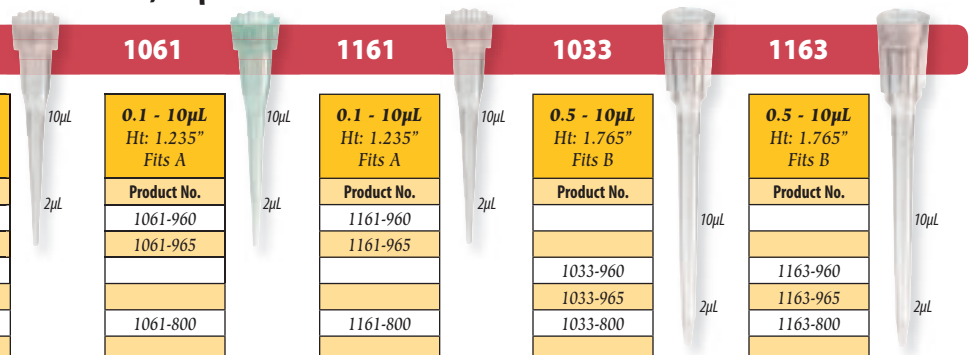
D These tips have been lot tested for the presence of Human DNA and found free of detectable levels.

R These tips have been lot tested for the presence of detectable Nuclease (Rnase/Dnase) and found to be free of detectable levels.

E Sterile versions of these tips have been lot tested for the presence of endotoxins (pyrogens) and found to have levels below detectable limits.

L These tips have a unique design that allows them to mount and eject from most pipettors with forces that help eliminate the potential for repetitive strain injuries.

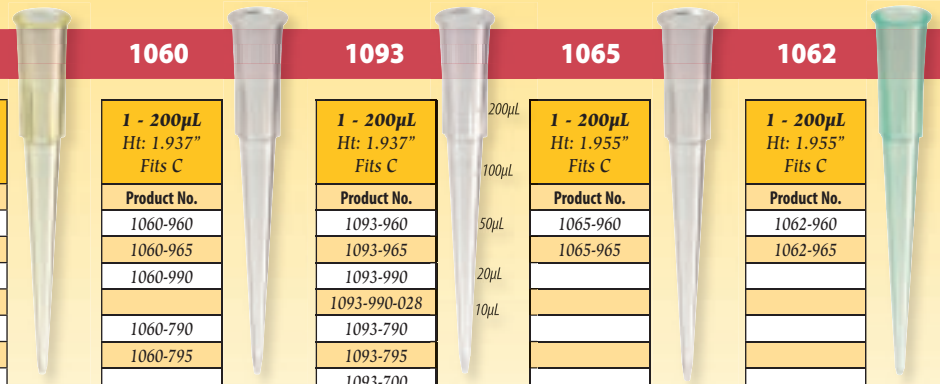
Classic™ 0.1 - 10µL Micro Tips with Graduations at 2, 10µL



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1038	1061	1161	1033	1163
				0.1 - 10µL Ht: 1.235" Fits A	0.1 - 10µL Ht: 1.235" Fits A	0.1 - 10µL Ht: 1.235" Fits A	0.5 - 10µL Ht: 1.765" Fits B	0.5 - 10µL Ht: 1.765" Fits B
				Product No.	Product No.	Product No.	Product No.	Product No.
A	96 Rack	1152	96RK	1038-960	1061-960	1161-960		
A	96 Rack (S)	1152	96RK	1038-965	1061-965	1161-965		
G	96 Rack	960	96RK				1033-960	1163-960
G	96 Rack (S)	960	96RK				1033-965	1163-965
E	Loose pack tips	1000	LP	1038-800	1061-800	1161-800	1033-800	1163-800
I	Bulk Tips	30000	BK	1038-900				
F	Indiv. wrapped (S)	200	IW	1038-165				
A	Pagoda Refill	1152	PR	1038-290				
A	Pagoda Express Refill	1152	PER	1038-290-020				
A	Pagoda Express Refill (S)	1152	PERS	1038-295-020				
				G R E U	S G R E U	P G D R E U	B G R E	P B G R D E

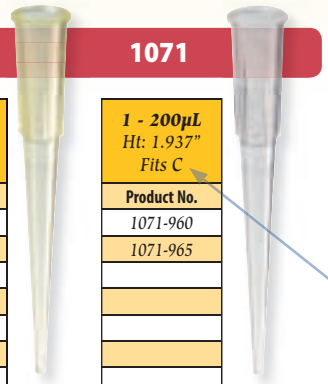
Tips are actual size

Classic™ 200µL Multiple Fit Tips



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1030 1 - 200µL Ht: 1.937" Fits C Product No.	1060 1 - 200µL Ht: 1.937" Fits C Product No.	1093 1 - 200µL Ht: 1.937" Fits C Product No.	1065 1 - 200µL Ht: 1.955" Fits C Product No.	1062 1 - 200µL Ht: 1.955" Fits C Product No.
G	96 Rack	960	96RK	1030-960	1060-960	1093-960	1065-960	1062-960
G	96 Rack (S)	960	96RK	1030-965	1060-965	1093-965	1065-965	1062-965
G	96 Stack Rack	960	96STK	1030-990	1060-990	1093-990		
G	96 Stack Rack Refill (SR)	960	96STKS	1030-990-028		1093-990-028		
G	192 Rack	960	192RK	1030-790	1060-790	1093-790		
G	192 Rack (S)	960	192RKS	1030-795	1060-795	1093-795		
G	192 Stack Rack	960	192STK	1030-700		1093-700		
J	192 Stack Rack (R)	960	192STS	1030-700-028		1093-700-028		
E	Loose pack tips	1000	LP	1030-800	1060-800	1093-800	1065-800	1062-800
I	Bulk Tips	30000	BK	1030-900		1093-900		
F	Indiv. wrapped (S)	200	IW	1030-165	1060-165	1093-165		
G	Pagoda Refill	960	PR	1030-290		1093-290		
G	Pagoda Express Refill	960	PER	1030-290-020		1093-290-020	1065-290-020	
G	Pagoda Express Refill (S)	960	PERS	1030-295-020		1093-295-020		
				B E R	B E R	G B E R	P B E R D	S B E R

Classic™ 200µL Tips without Bevels

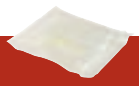


Case Qty.	Package	Qty. of Tips/Pack	Package Key	1031 1 - 200µL Ht: 1.937" Fits C Product No.	1071 1 - 200µL Ht: 1.937" Fits C Product No.
G	96 Rack	960	96RK	1031-960	1071-960
G	96 Rack (S)	960	96RK	1031-965	1071-965
G	96 Stack Rack	960	96STK		
G	96 Stack Rack (S)	960	96STKS		
G	192 Rack	960	192RK		
G	192 Rack (S)	960	192RKS		
G	192 Stack Rack	960	192STK		
G	192 Stack Rack (S)	960	192STS		
E	Loose pack tips	1000	LP	1031-800	1071-800
I	Bulk Tips	30000	BK		
F	Indiv. wrapped (S)	200	IW		
G	Pagoda Refill	960	PR		
G	Pagoda Express Refill	960	PER	1031-290-020	1071-290-020
G	Pagoda Express Refill (S)	960	PERS		
				E R	E R

See Fit Chart on pages 38-41

Tips are actual size

PIPET TIPS PACKAGING OPTIONS KEY:



IW
Individually Wrapped

Pipet tips, individually wrapped, are packaged in thermal sealed polyethylene bags. These tips have been radiation sterilized. This package is designed to provide the highest assurance that the tips you use are pure.

LP
Loose Pack

Loose pack pipet tips are supplied in resealable polyethylene bags. These are not recommended if you plan to store the tips for long periods since warping can occur after long periods of storage in bags.

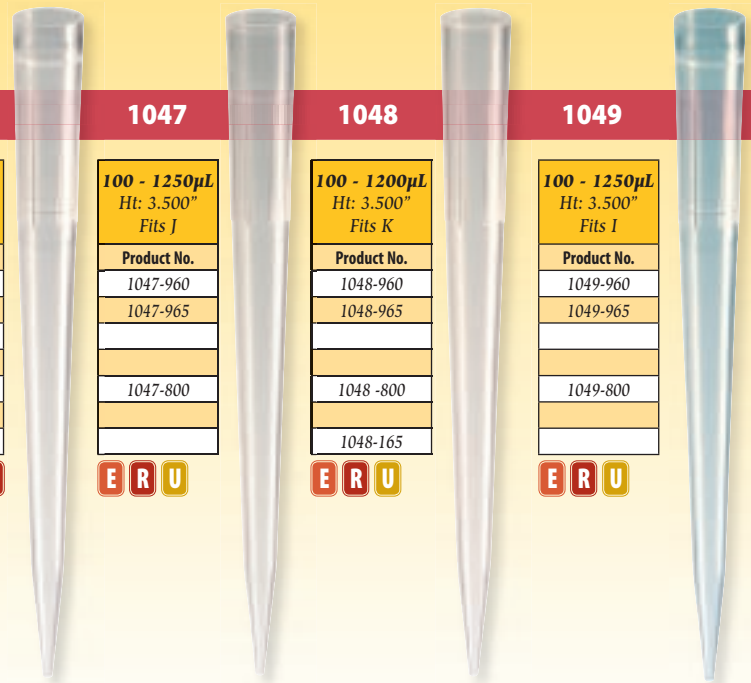
BK
Bulk Pack

This package is an inexpensive option when your budget is tight. Tips are supplied in one large bag inside a corrugated container. We also recommend you do not store these tips for long periods if warping is a concern.

96RK
96 Rack and 192 Rack

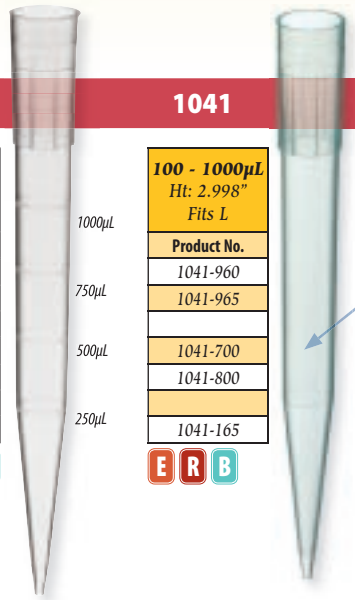
These racks offer workhorse reliability and versatility. They have heavy hook hinges that are extremely durable and an ergonomic snap latch that won't catch gloves. Smooth rounded edges and reinforced seal make these racks durable additions to your lab. Strong enough to be autoclaved many times. The separate rack insert includes a beveled top and extra sturdy surface for multi-channel pipetting. A vent in the rack sides allows steam autoclaving to be more efficient and assures your tips are sterile.

Classic™ 1200, 1250µL Multiple Fit Tips



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1168	1047	1048	1049
				100 - 1250µL Ht: 3.500" Fits I	100 - 1250µL Ht: 3.500" Fits J	100 - 1200µL Ht: 3.500" Fits K	100 - 1250µL Ht: 3.500" Fits I
				Product No.	Product No.	Product No.	Product No.
B	96 Rack (L)	576	96RK	1168-960	1047-960	1048-960	1049-960
B	96 Rack (L)(S)	576	96RK	1168-965	1047-965	1048-965	1049-965
D	Pagoda Express	576	PER	1168-290-020			
D	Pagoda Express (S)	576	PERS				
E	Loose pack tips	1000	LP	1168-800	1047-800	1048 -800	1049-800
H	Bulk Tips	10000	BK				
F	Indiv. wrapped (S)	200	IW				
				P D E R U	E R U	E R U	E R U

Classic™ 1000µL Multiple Fit Tips



Case Qty.	Package	Qty. of Tips/Pack	Package Key	1046	1041
				100 - 1000µL Ht: 2.998" Fits L	100 - 1000µL Ht: 2.998" Fits L
				Product No.	Product No.
K	96 Rack (L)	576	96RK	1046-960	1041-960
K	96 Rack (L)(S)	576	96RK	1046-965	1041-965
K	96 Stack Rack	480	96STK		
K	96 Stack Rack (R)	480	96STKS	1046-700	1041-700
E	Loose pack tips	1000	LP	1046-800	1041-800
H	Bulk Tips	10000	BK		
F	Indiv. wrapped (S)	200	IW	1046-165	1041-165
				G E R B	E R B

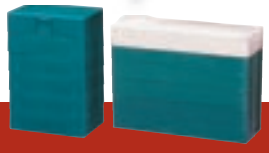
See Fit Chart on pages 38-41

Tips are actual size

STK

96 and 192 Stack Racks

This package gives you the best of both worlds; low cost and a complete high quality rack. You assemble the rack yourself and insert the fully racked refills into the rack. Since you never touch the tips you don't have to be concerned about contamination from your hands or latex gloves. These stacks are very stable so you can pipet with a multichannel pipettor right from the stack.



SR

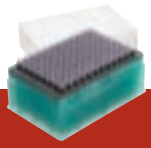
96 and 192 Stack Rack Refills

A slimmed down version of the package at left. With this package you get only the refills you need. Neatly packed, ready for you to refill the racks you already have. Once again, since you get a full rack in the refill, you don't have to work to fit tips into holes or worry about contamination from your hands or gloves.

PER, PERS

Pagoda Express Refills
Pagoda Express Refills, Sterile

Just like the Pagoda refills but do not include a hinged rack to refill. Use your existing racks with the Pagoda system. This is the most waste conscious package available in oriented pipet tips. By purchasing these refills 90% of the packaging waste is eliminated. All the materials are easy to recycle and you never have to touch the tips with your exposed or gloved hands.

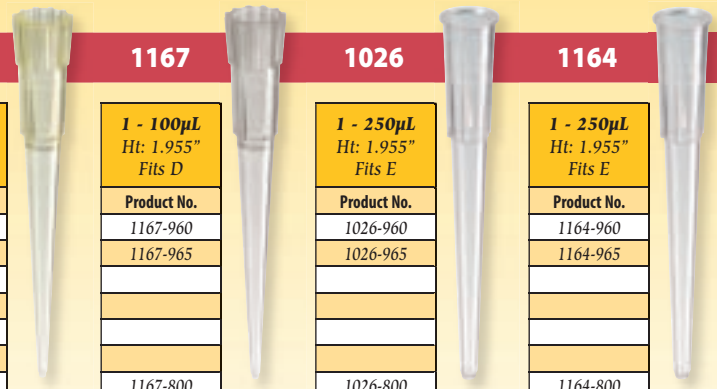


RR

Robotic Racks

These racks are designed to withstand the heavy load that automated pipettors exert on the racks. They have a special closed well structure that keeps each tip in its own well.

Classic™ 100, 250µL Specialty Tips

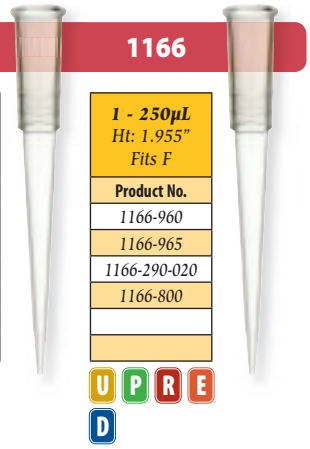


Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1032	1167	1026	1164
				1 - 100µL Ht: 1.955" Fits D	1 - 100µL Ht: 1.955" Fits D	1 - 250µL Ht: 1.955" Fits E	1 - 250µL Ht: 1.955" Fits E
				Product No.	Product No.	Product No.	Product No.
G	96 Rack	960	96RK	1032-960	1167-960	1026-960	1164-960
G	96 Rack (S)	960	96RK	1032-965	1167-965	1026-965	1164-965
G	192 Rack	960	192RK	1032-790			
G	192 Rack (S)	960	192RKS	1032-795			
G	192 Stack Rack	960	192ST	1032-700			
J	192 Stack Rack (R)	960	192SRK				
E	Loose pack tips	1000	LP	1032-800	1167-800	1026-800	1164-800
I	Bulk Tips	10000	BK				
F	Indiv. wrapped (S)	200	IW				
G	Pagoda Express	960	PER	1032-290	1167-290	1026-290	1164-290
				E R B	P B R D E	W R E B	W P B R E D

Orifice is 0.050"

Orifice is 0.050"

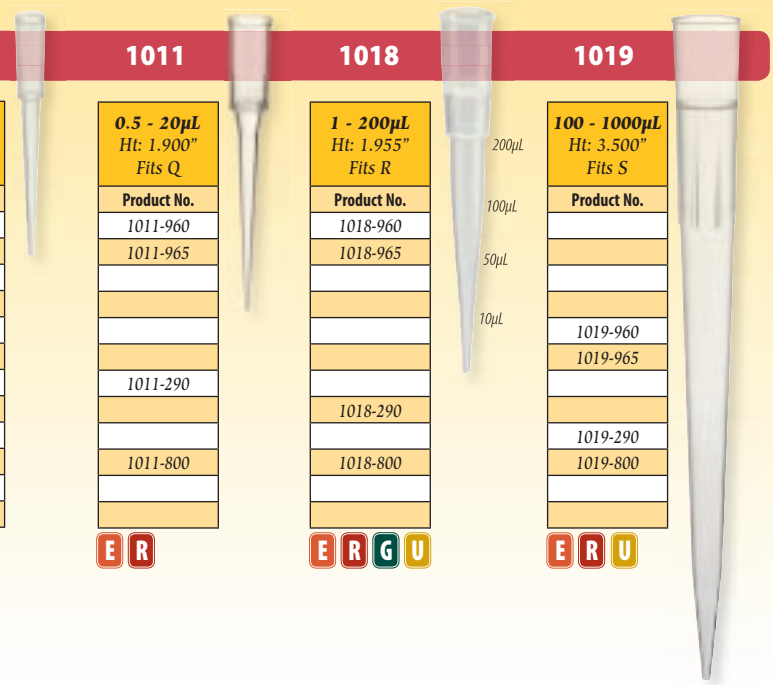
Classic™ 250µL Ultrafine™ Tips



Case Qty.	Package	Qty. of Tips/Pack	Package Key	1099	1166
				1 - 250µL Ht: 1.955" Fits F	1 - 250µL Ht: 1.955" Fits F
				Product No.	Product No.
G	96 Rack	960	96RK	1099-960	1166-960
G	96 Rack (S)	960	96RK	1099-965	1166-965
G	Pagoda Express	960	PER	1099-290-020	1166-290-020
E	Loose pack tips	1000	LP	1099-800	1166-800
I	Bulk Tips	30000	BK		
F	Indiv. wrapped (S)	200	IW	1099-165	
				U R E	U P R E D

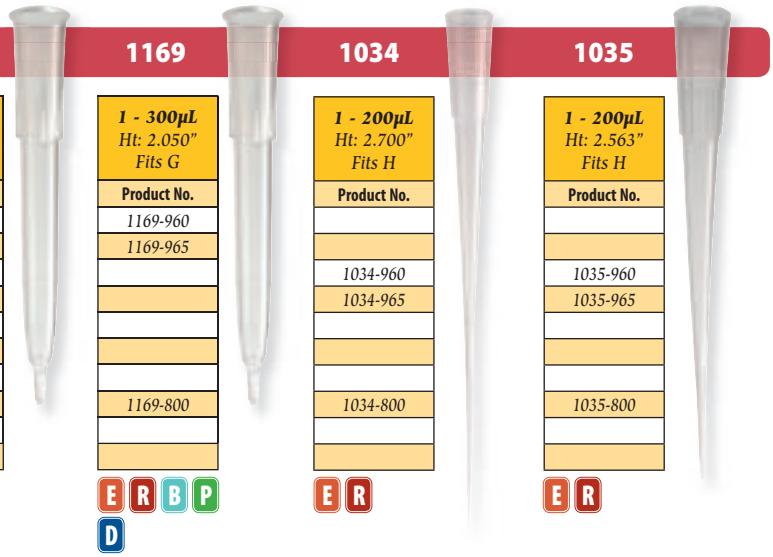
Tips are actual size

Classic™ Specialty Tips



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1007 1 - 50µL Ht: 1.295" Fits T	1011 0.5 - 20µL Ht: 1.900" Fits Q	1018 1 - 200µL Ht: 1.955" Fits R	1019 100 - 1000µL Ht: 3.500" Fits S
				Product No.	Product No.	Product No.	Product No.
G	96 Rack	960	96RK		1011-960	1018-960	
G	96 Rack (S)	960	96RK		1011-965	1018-965	
O	96 Rack	3840	96RK	1007-690			
O	96 Rack (S)	3840	96RK	1007-695			
B	96 Rack (L)	576	96STK				1019-960
B	96 Rack (L) (S)	576	96STKS				1019-965
R	Pagoda Express	1056	PER		1011-290		
G	Pagoda Express	960	PER			1018-290	
D	Pagoda Express	576	PER				1019-290
E	Loose pack tips	1000	LP		1011-800	1018-800	1019-800
I	Bulk Tips	30000	BK				
F	Indiv. wrapped (S)	200	IW				
				E R	E R	E R G U	E R U

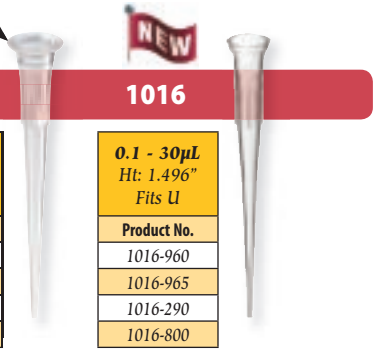
Classic™ Specialty Tips



Case Qty.	Package	Qty. of Tips/Pack	Package Key	1039 1 - 300µL Ht: 2.050" Fits G	1169 1 - 300µL Ht: 2.050" Fits G	1034 1 - 200µL Ht: 2.700" Fits H	1035 1 - 200µL Ht: 2.563" Fits H
				Product No.	Product No.	Product No.	Product No.
G	96 Rack	960	96RK	1039-960	1169-960		
G	96 Rack (S)	960	96RK	1039-965	1169-965		
B	96 Rack (L)	576	96STK			1034-960	1035-960
B	96 Rack (L) (S)	576	96STKS			1034-965	1035-965
G	192 Rack	960	192RK	1039-790			
G	192 Rack (S)	960	192RKS	1039-795			
G	192 Stack Rack	960	192STK	1039-700			
E	Loose pack tips	1000	LP	1039-800	1169-800	1034-800	1035-800
I	Bulk Tips	30000	BK				
F	Indiv. wrapped (S)	200	IW	1039-165			
				E R B	E R B P D	E R	E R

Tubeguard keeps pipettor barrel from touching tubes.

Classic™ Specialty Tips



Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key	1036 0.1 - 10µL Ht: 1.500" Fits A	1016 0.1 - 30µL Ht: 1.496" Fits U
				Product No.	Product No.
G	96 Rack	960	96RK	1036-960	1016-960
G	96 Rack (S)	960	96RK	1036-965	1016-965
R	Pagoda Express Refill	1344	PER	1036-290-020	1016-290
E	Loose pack tips	1000	LP	1036-800	1016-800
				E R U	E R U

Extended

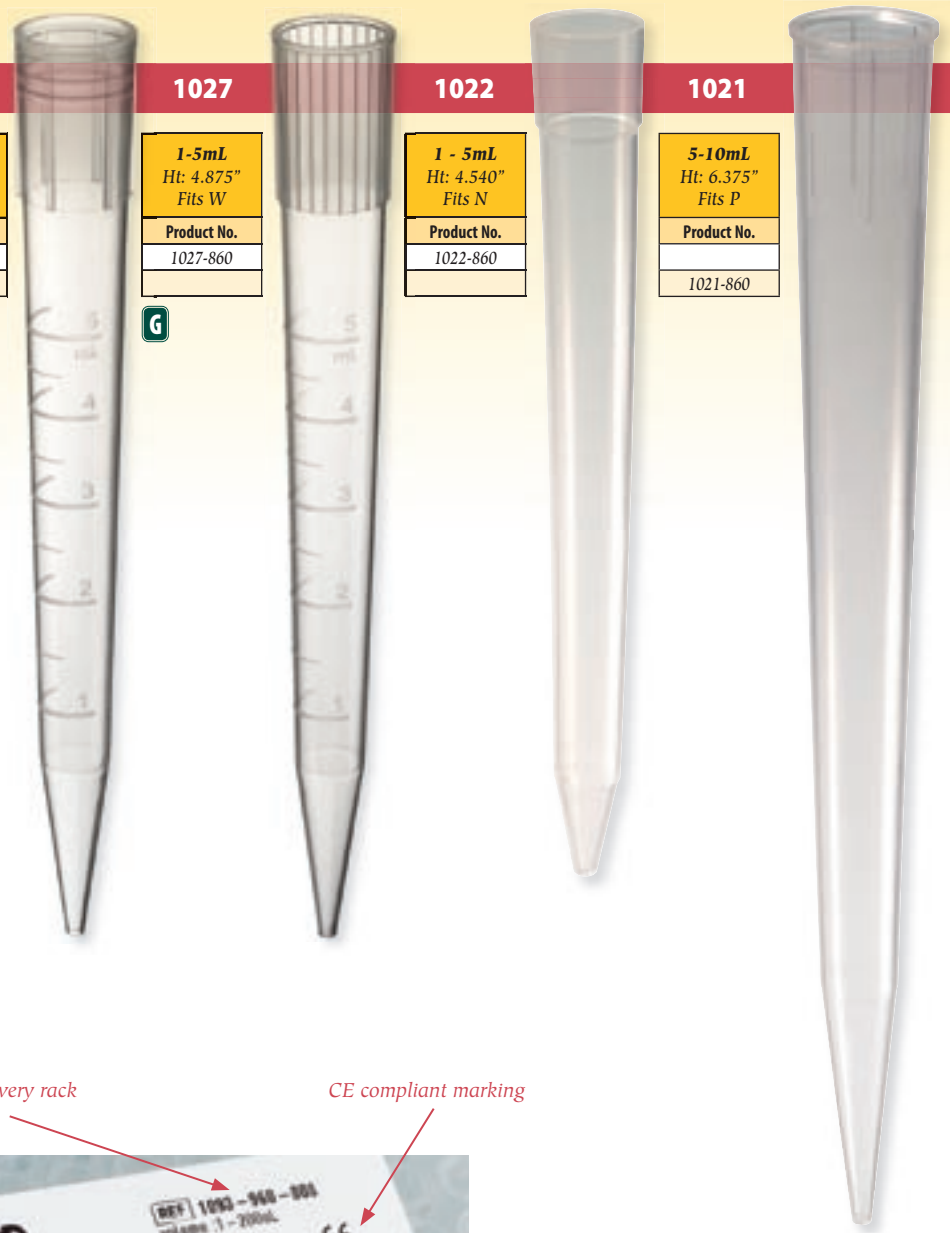
Tips are actual size

See Fit Chart on pages 36-37

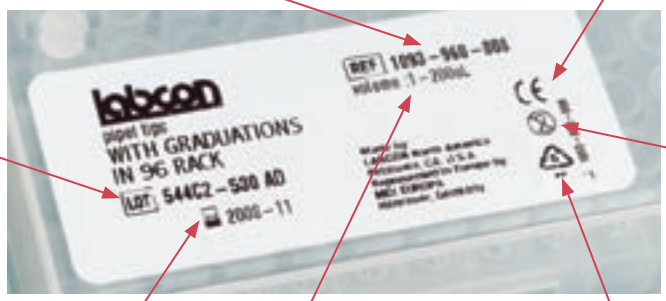
Classic™ Macro Tips

Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key
M	Loose pack tips	250	LP
L	Loose pack tips	250	LP

1025	1027	1022	1021
1 - 5mL *Ht: 4.875"* *Fits O*	*1-5mL* *Ht: 4.875"* *Fits W*	*1 - 5mL* *Ht: 4.540"* *Fits N*	*5-10mL* *Ht: 6.375"* *Fits P*
Product No.	Product No.	Product No.	Product No.
1025-860	*1027-860*	*1022-860*	*1021-860*
G	G		



Tips are actual size



Product number on every rack makes ordering easy

CE compliant marking

Lot number on every rack for quality assurance

ISO coding

Expiration date so you know you have fresh product

Working volume shown on every rack

Coded for recycling

Premier™ Pipet Tips

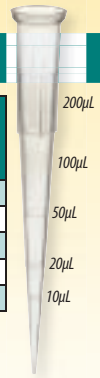
Premier pipet tips have advanced features that give you more value. These Premier tips use polypropylene resins that have been pre-tested before selection to eliminate potential contaminants. All Premier pipet tips are lot certified pure and free of detectable human DNA as well as Dnase/Rnase, endotoxin, and pre-qualified free of heavy metals. They also are designed with a special fit area that conforms more readily to most pipettors. In this way they mount and eject with less force than what is required to mount and eject with special low force pipettors. And they do this without the need for you to purchase special pipettors. Made in the highest quality molds, these tips can be used whenever your work demands a higher standard.

1017

Case Qty. (See p.42)	Package	Qty. of Tips/Pack	Package Key
G	96 Rack	960	96RK
G	96 Rack (S)	960	96RK
G	Pagoda Express Refill	960	PER
E	Loose pack tips	1000	LP

1-200µL Ht: 1.955" Fits C
Product No.
1017-960
1017-965
1017-290-020
1017-800

L

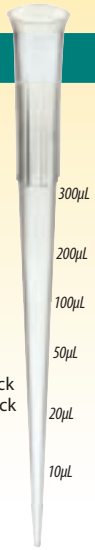


1014

1 - 300µL Ht: 2.875" Fits G
Product No.
1014-960*
1014-965*
1014-290**
1014-800

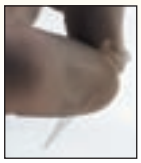
L

* = 576/pack
** = 768/pack



200µL and 300µL Pipet Tips with Flextop™ and UltraFine point.

These ultimate tips feature a uniquely thin and flexible top that conforms to the pipettor barrel unlike any other tips. They also include an un-beveled point that is so precise you can easily expel the tiniest amount of sample. The mounting port is beveled to ensure that multichannel pipettors are easy to mount. In clear 100% polypropylene. Tips and racks are autoclavable. Graduated.



Flexible top seals easier.

Ultrafine tips have the most precise points.

Eppendorf | Rainin Finepoint | MBP Fine | BevelPoint™ | Premier™

Now DNA tested

1012

Case Qty.	Package	Qty. of Tips/Pack	Package Key
B	96 Rack	576	96RK
B	96 Rack (S)	576	96RK
D	Pagoda Express Refill	576	PER
E	Loose pack tips	1000	LP
F	Indiv. Wrapped (S)	200	IW

1 - 200µL Ht: 3.300" Fits C
Product No.
1012-960
1012-965
1012-800

L

200µL Extended Pipet Tips with Flextop and UltraFine point.

These high-quality, extra-long tips feature a uniquely thin and flexible top that conforms to the pipettor barrel unlike any other tips, forming a tight seal with minimal ejection force. They include an un-beveled point that is extremely precise so you can easily dispense the smallest sample. In clear 100% polypropylene. Tips and racks are autoclavable. Graduations.

1045

100 - 1250µL Ht: 3.500" Fits I
Product No.
1045-960
1045-965
1045-290-020
1045-800
1045-165

L

100-1250µL Extended Length Pipet Tips with Flextop and UltraFine point.

These tips have a very fine end point that fits into small micro tubes and deep well plates. Extra length gives you more head room above your sample so you don't have to worry about contaminating the pipettor barrel. The thin flexible top seals onto more pipettors but ejects easily. Fits most 1000µL pipettors. Clear 100% polypropylene. Tips and racks are autoclavable.

All products on these pages

LIQUID HANDLING

Pipet Tips Compatibility Chart

This information is believed to be true at the time of printing. However, instrument manufacturers routinely modify the designs of their products without notice. Please test the items above with the instrument shown before use.

POPULAR PIPETTORS

		BIOHIT					BRAND		EPPENDORF				GILSON	
Tip Type	Page #	eLine	ePette	mLine	Proline Electronic	Proline[2][5]	Transferpette	Transferpette Electronic	Electronic	Reference	Research Pro	Research	Pipetman	Pipetman Ultra
A	31	0.2-10	0.2-10uL	0.5-10	0.2-10uL	0.1-2.5,0.5-10ul	0.1-10uL	0.5-10	0.5-10uL	0.1-2.5uL, 0.5-10uL	0.5-10uL	0.1-2.5uL, 0.5-10uL	P2,P10	U2,U10
A	31,35	0.2-10	0.2-10uL	0.5-10	0.2-10uL	0.1-2.5,0.5-10ul	0.1-10uL	0.5-10	0.5-10uL	0.1-2.5uL, 0.5-10uL	0.5-10uL	0.1-2.5uL, 0.5-10uL	P2,P10	U2,U10
A	31,35	0.2-10		0.5-10	0.2-10uL				0.5-10uL	0.1-2.5uL, 0.5-10uL	0.5-10uL	0.1-2.5uL, 0.5-10uL	P2,P10	U2,U10
B	31		0.2-10uL				0.5-10,2-20	2-20	0.5-20uL	2-20uL	0.5-10uL			
C	32,37	5-120	5-100uL,25-250	20-200	5-100uL	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120	5-100uL,25-250	20-200	5-100	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120	5-100uL,25-250	20-200	5-100	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200		2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120	5-100uL,25-250	20-200	5-100	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120	5-100uL,25-250	20-200	5-100	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120	5-100uL,25-250	20-200	5-100	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120	5-100uL,25-250	20-200	5-100	2-20,5-50,10-100,20-200	2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
C	32,37	5-120		20-200	5-100	10-100,20-200	10-100,20-200	10-100,20-200		2-20,10-100,50-200	5-100	2-20,10-100,20-200	P100,P200	U100, U200
D	34						2-20,5-50,10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200		
E	34	5-120	5-100uL,25-250	20-200	5-100	10-100,20-200	10-100,20-200	10-100,20-200	5-100uL,20-200	2-20,10-100,50-200	5-100uL	2-20,10-100,20-200	P100,P200	U100, U200
F	34		25-250			20-200	20-200		20-200		5-100	10-100,20-200	P200	U200
G	35					50-200, 50-250			20-200		20-300		P200	U200
G	35,37	20-300		20-200	25-250	50-250,50-300	20-200	30-300		50-200	20-300	30-300	P200	U200
H	35	5-120	5-100uL-25-250uL	20-200	5-100	5-50, 50-200	5-50,10-100, 20-200	10-100,20-200	5-100,20-200	2-20,10-100,50-200	5-100	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
H	35	5-120	5-100uL-25-250uL	20-200	5-100	5-50, 50-200	5-50,10-100, 20-200	10-100,20-200	5-100,20-200	2-20,10-100,50-200	5-100	2-20,10-100,20-200	P20,P100,P200	U20,U100,U200
I	37	50-1000	50-1200 *(single channel)*	100-1000	50-1000	200-1000	100-1000		50-1000	100-1000uL	50-1000,50-1200	100-1000uL	P1000	U1000
J	33													
K	33		50-1200uL		50-1200uL				50-1200uL					
L	33	50-1000		100-1000	50-1000*		25-250,100-1000	100-1000		100-1000	50-1000	100-1000	P1000	U1000
L	33	50-1000		100-1000	50-1000		25-250,100-1000	100-100		100-1000	50-1000	100-1000	P1000	U1000
N	36												P5000	U5000
O	36												P5000	U5000
P	36												P10ML	
Q	35													
R	35													
S	35													
T	35													
U	35	0.2-10		0.5-10									P2,P10	U2,U10
W	36			500-5000	100-5000	1000-5000					100-5000	500-5000		

µl volume ranges shown

µl

To choose pipet tips for you:

1. **FIND YOUR PIPETTOR BRAND IN THE CHART ABOVE**
2. **FIND THE PIPETTOR VOLUME AND RANGE YOU USE**
3. **FIND THE TIP TYPE CODES FOR YOUR PIPETTOR**
4. **VISIT PAGES LISTED TO THE RIGHT OF THE TIP TYPE**

POPULAR PIPETTORS

		RAININ						THERMO				
Tip Type	Page #	Rainin EDP3	EDP1	EDP1 with LTS	Rainin Latch Mode	Pipet Lite with (LTS)	Pipet Plus with (LTS)	Finnpipette Digital[3]	Finnpipette Focus	Finnpipette Biocontrol	Finnpipette Digital 16	Finnpipette Novus
A	31	0.5-10	0.5-10		R2/R10			0.2-10ul,0.5-10uL	0.3-3,0.5-5,1-10uL	0.5-10uL		1-10uL
A	31,35	0.5-10	0.5-10		R2/R10			0.2-10ul,0.5-10uL	0.3-3,0.5-5,1-10uL	0.5-10uL		1-10uL
A	31,35							0.2-10ul,0.5-10uL	0.3-3,0.5-5,1-10uL	0.5-10uL		
B	31											
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40,5-50, 40-200,		1-10uL,5-50uL,10-100uL
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40,5-50, 40-200,		1-10uL,5-50uL,10-100uL
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200						1-10,3-30,5-50,10-100			1-10uL,5-50uL,10-100uL
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40,5-50, 40-200,		1-10uL,5-50uL,10-100uL
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40,5-50, 40-200,		1-10uL,5-50uL,10-100uL
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40,5-50, 40-200,		1-10uL,5-50uL,10-100uL
C	32,37	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40,5-50, 40-200,		1-10uL,5-50uL,10-100uL
C	32,37	10-100,20-200	2-20,10-100,20-200						1-10,3-30,5-50,10-100			1-10uL,5-50uL,10-100uL
D	34											
E	34	20-200	20-200		R200			2-20,5-50,10-100,20-200	20-200	5-40,5-50, 40-200,		10-100
F	34	20-200			R100,R200			20-200		40-200		
G	35							50-300		50-300		
G	35,37	20-200,20-300	20-300						30-300			30-300
H	35	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40, 40-200		1-10uL,5-50uL,10-100uL
H	35	2-20,10-100,20-200	2-20,10-100,20-200		R20,R100,R200			2-20,5-50,10-100,20-200	1-10,3-30,5-50,10-100	5-40, 40-200		1-10uL,5-50uL,10-100uL
I	37	100-1000	100-1000		R1000			100-1000,200-1000	100-1000	200-1000		100-1000
J	33											
K	33											
L	33	100-1000	100-1000						100-1000			100-1000
L	33	100-1000	100-1000						100-1000			100-1000
N	36											
O	36											
P	36											
Q	35			0.5-10,2-20		0.1-2,0.5-10,2-20	0.1-2,0.5-10,2-20					
R	35			10-100,20-200		10-100,20-200	10-100,20-200					
S	35			100-1000		100-1000	100-1000					
T	35										5-50	
U	35											
W	36											

µl volume ranges shown
µl

‡**requires barrel #9057-1016**; (1) Also labeled as Matrix, Axypette; (2) Also labeled as Jencons Sealpette, Ratiolab and as Genex; (3) Also labeled as Fisherbrand; (4) Also labeled as MLT Ultron; (5) Also labeled as Starpet; (6) Also labeled as Genemate; (7) Also labeled as Labnet

For trademark references, see inside front cover.

LIQUID HANDLING

Pipet Tips Compatibility Chart

This information is believed to be true at the time of printing. However, instrument manufacturers routinely modify the designs of their products without notice. Please test the items above with the instrument shown before use.

		OTHER PIPETTORS												
		CORNING			HAMILTON		HIGH TECH LAB		KENDALL	LABNET[6]		MATRIX		METTLER
Tip Type	Page #	8-Pette, 12 Pette	Octapette	Lambda	Softgrip	Softouch Electronic	Labmate	V3[7]	Oxford Benchmate	Labpette	Biopette E	Impact	Impact 2[4]	Mettler Toledo
A	31			0.1-2.5uL, 0.5-10	0.2-2,1-10	0.2-10	0.2-10	0.5-10	0.1-2,0.5-10	0.5-10	0.5-10			0.1-2.5,0.5-10
A	31,35			0.1-2.5uL, 0.5-10	0.2-2,1-10	0.2-10	0.2-10	0.5-10	0.1-2,0.5-10	0.5-10	0.5-10			0.1-2.5,0.5-10
A	31,35			0.1-2.5uL, 0.5-10	0.2-2,1-10		0.2-10	0.5-10		0.5-10				
B	31								0.5-10					
C	32,37	20-200	25,50,100,200	2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200	2-20,10-100,20-200	2-20,10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
C	32,37	20-200	25,50,100,200	2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200	2-20,10-100,20-200	2-20,10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
C	32,37	20-200	25,50,100,200		2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200		2-20,10-200	2-125,5-250	2-125,5-250	
C	32,37	20-200	25,50,100,200	2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200	2-20,10-100,20-200	2-20,10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
C	32,37	20-200	25,50,100,200	2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200	2-20,10-100,20-200	2-20,10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
C	32,37	20-200	25,50,100,200	2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200	2-20,10-100,20-200	2-20,10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
C	32,37	20-200	25,50,100,200	2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200,40-200	2-20,10-100,20-200	2-20,10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
C	32,37	20-200	25,50,100,200	20-200	2.5-25,5-50,10-100	5-100	10-100,20-200	10-100,20-200	10-100,20-200,40-200		10-200	2-125,5-250	2-125,5-250	20-200
D	34													2-20,10-100,20-200
E	34	20-200	25,50,100,200	2-20,10-100,20-200	10-100	5-100	10-100-20-200	10-100,20-200	20-200	10-100,20-200	10-200	5-250	5-250	2-20,10-100,20-200
F	34	20-200		10-100,20-200	10-100			20-200	20-200	20-200		5-250	5-250	10-100,20-200
G	35	20-200						20-200		20-200		5-250	5-250	
G	35,37				30-300		50-250	20-200	20-200,40-200			5-250	5-250	
H	35	20-200		2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200	2-20,10-100,20-200	10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
H	35	20-200		2-20,10-100,20-200	2.5-25,5-50,10-100	5-100	2-20,5-50,10-100,20-200	2-20,10-100,20-200	10-100,20-200	2-20,10-100,20-200	10-200	2-125,5-250	2-125,5-250	2-20,10-100,20-200
I	37			100-1000	100-1000	50-1000	200-1000	100-1000	200-1000	100-1000	100-1200			100-1000
J	33											15-1250	15-1250	
K	33													
L	33				100-1000	50-1000	200-1000							
L	33				100-1000	50-1000	200-1000							
N	36						1000-5000	1000-5000	1000-5000	1000-5000				
O	36													
P	36													
Q	35													
R	35													
S	35													
T	35													
U	35											12.5,30uL	12.5,30uL	
W	36													

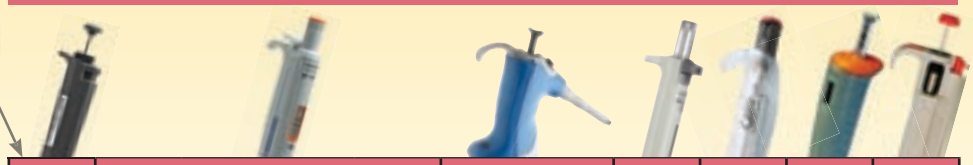
µl volume ranges shown

µl

To choose pipet tips for you:

1. **FIND YOUR PIPETTOR BRAND IN THE CHART ABOVE**
2. **FIND THE PIPETTOR VOLUME AND RANGE YOU USE**
3. **FIND THE TIP STYLE CODES FOR YOUR PIPETTOR**
4. **VISIT PAGES LISTED TO THE RIGHT OF THE TIP TYPE**

OTHER PIPETTORS



Tip Type	Page #	NICHIRYO	SOCOREX				VISTALAB		WHEATON	CAPP	POULTON	WORLD PREC. INSTRUMENTS
		5000DG, Nichipet EX	Acura 825, 815	Acura 855	Calibra	Electro	MLA	Ovation	Wheaton	Aero[(1)]	Volac	Eagle
A	31	0.1-2,0.5-10uL	0.1-2,0.5-10	0.5-10		0.5-10		0.2-10ul,1-10uL				E2, E10
A	31,35	0.1-2,0.5-10uL	0.1-2,0.5-10	0.5-10		0.5-10		0.2-10ul,1-10uL				E2, E10
A	31,35							0.2-10ul,1-10uL				
B	31	0.5-10uL	0.4-10uL		0.4-10uL				0.4-10uL	0.5-10ul	0.5-10,2-20uL	E10
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	5-50, 25-200	5-50,20-100,40-200	E20, E100, E200
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	5-50, 25-200	5-50,20-100,40-200	E20, E100, E200
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200		10-200		10-100,20-200		5-50,25-200		
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	5-50, 25-200	5-50,20-100,40-200	E20, E100, E200
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	5-50, 25-200	5-50,20-100,40-200	E20, E100, E200
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	5-50, 25-200	5-50,20-100,40-200	E20, E100, E200
C	32,37	10-100,20-200,40-200	1-10,2-20,5-50,10-100,20-200	5-50,20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	5-50, 25-200	5-50,20-100,40-200	E20, E100, E200
C	32,37	10-100,20-200,40-200	20-200	20-200		10-200		20-200		25-200		
D	34											
E	34	20-200	20-200	20-200	10-200		10-50,50-200	20-200	10-200	25-200	20-200	E200
F	34	20-200			10-200		50-200		10-200		20-200	E200
G	35											
G	35,37	20-200,40-200	20-200	20-200				20-200		50-300		
H	35	10-100,20-200	20-200	20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	25-200	20-200	E200
H	35	10-100,20-200	20-200	20-200	10-200	10-200	10-50,50-200	10-100,20-200	10-200	25-200	20-200	E200
I	37	100-1000	100-1000		200-1000	50-1000		100-1000***	200-1000	100-1000uL	200-1000	E1000
J	33											
K	33											
L	33		100-1000			50-1000		100-1000‡		100-1000		
L	33		100-1000			50-1000		100-1000‡		100-1000		
N	36	1000-5000					1000-5000					
O	36											
P	36											
Q	35											
R	35											
S	35											
T	35											
U	35							1-10uL				
W	36											

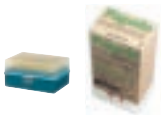
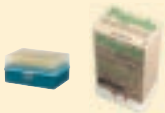
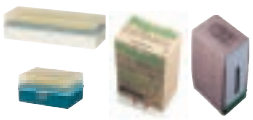
µl volume ranges shown
µl

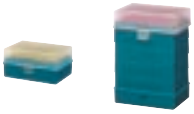
‡ **requires barrel #9057-1016**; (1) Also labeled as Matrix, Axypette; (2) Also labeled as Jencons Sealpette, Ratiolab and as Genex; (3) Also labeled as Fisherbrand; (4) Also labeled as MLT Ultron; (5) Also labeled as Starpet; (6) Also labeled as Genemate; (7) Also labeled as Labnet

For trademark references, see inside front cover.

CASE QUANTITY CHART

Match the symbol to the "Case Qty." column

SYMBOL	QTY. PACKS/CS.	PACKAGE	TOTAL TIPS/CS.
A	10		11,520
B	8		4,608
C	10		8,640
D	10		5,760
E	10		10,000
F	10		2,000
G	10		9,600
H	1		10,000

SYMBOL	QTY. PACKS/CS.	PACKAGE	TOTAL TIPS/CS.
I	1		30,000
J	5		4,800
K	5		4,800 *(96/layer)*
L	4		1,000
M	10		2,500
N	10		5,000
O	5		19,200
R	10		13,440

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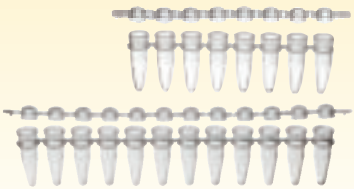
PCR Disposables

Labcon PCR tubes, strips and plates are designed to fit many popular thermocyclers including brands like Applied Biosystems 9600, MJ Research, Eppendorf, Hybaid, and Bio Rad. All our PCR disposables are made from 100% virgin polypropylene and are lot tested and certified to be free of Rnase, Dnase, and Human DNA. Autoclavable.



See Compatibility Chart on page 49

Colors

Cat No.	Description	Unit	Case
0.2mL PCR Tubes with Attached Bubble Caps			
3934-500	*Natural*	*1000*	*10000*
3934-502	*Yellow*	*1000*	*10000*
3934-503	*Orange*	*1000*	*10000*
3934-504	*Red*	*1000*	*10000*
3934-506	*Purple*	*1000*	*10000*
3934-507	*Blue*	*1000*	*10000*
3934-508	*Green*	*1000*	*10000*
3934-509	*Assorted*	*1000*	*10000*
0.2mL PCR Tubes with Attached Flat Caps			
3936-500	*Natural*	*1000*	*10000*
3936-502	*Yellow*	*1000*	*10000*
3936-503	*Orange*	*1000*	*10000*
3936-504	*Red*	*1000*	*10000*
3936-506	*Purple*	*1000*	*10000*
3936-507	*Blue*	*1000*	*10000*
3936-508	*Green*	*1000*	*10000*
3936-509	*Assorted*	*1000*	*10000*

Cat No.	Description	Unit	Case
0.2mL PCR Strips and Caps in convenience packaging			
3945-550	*0.2mL Strips with 8 wells and Separate caps Natural, caps in separate bag*	*125*	*1250*
3955-540	*0.2mL Strips with 12 wells and Separate caps Natural, caps in separate bag*	*80*	*800*

Cat No.	Description	Unit	Case
0.2mL PCR Strips with 8 wells			
3940-550	*0.2mL Strips, Natural*	*125*	*1250*
3940-552	*0.2mL Strips, Yellow*	*125*	*1250*
3940-553	*0.2mL Strips, Orange*	*125*	*1250*
3940-554	*0.2mL Strips, Red*	*125*	*1250*
3940-556	*0.2mL Strips, Purple*	*125*	*1250*
3940-557	*0.2mL Strips, Blue*	*125*	*1250*
3940-558	*0.2mL Strips, Green*	*125*	*1250*
3940-559	*0.2mL Strips, Assorted*	*125*	*1250*
0.2mL PCR Strips with 12 wells			
3950-540	*0.2mL Strips, Natural*	*80*	*800*
3950-542	*0.2mL Strips, Yellow*	*80*	*800*
3950-543	*0.2mL Strips, Orange*	*80*	*800*
3950-544	*0.2mL Strips, Red*	*80*	*800*
3950-546	*0.2mL Strips, Purple*	*80*	*800*
3950-547	*0.2mL Strips, Blue*	*80*	*800*
3950-548	*0.2mL Strips, Green*	*80*	*800*
3950-549	*0.2mL Strips, Assorted*	*80*	*800*

Cat No.	Description	Unit	Case
Strip Caps for PCR Strips			
3942-850	*PCR Strip Caps for 8 wells, Natural*	*125*	*1250*
3952-540	*PCR Strip Caps for 12 wells, Natural*	*125*	*1250*

Cat No.	Description	Unit	Case
0.2mL Strips with 8 Wells and Individually Attached Bubble Caps			
3925-550	*Natural*	*120*	*1200*
3925-552	*Yellow*	*120*	*1200*
3925-553	*Orange*	*120*	*1200*
3925-554	*Red*	*120*	*1200*
3925-556	*Purple*	*120*	*1200*
3925-557	*Blue*	*120*	*1200*
3925-558	*Green*	*120*	*1200*
3925-559	*Assorted*	*120*	*1200*
0.2mL Strips with 8 Wells and Attached Strip Caps			
3926-550	*Natural*	*120*	*1200*
3926-552	*Yellow*	*120*	*1200*
3926-553	*Orange*	*120*	*1200*
3926-554	*Red*	*120*	*1200*
3926-556	*Purple*	*120*	*1200*
3926-557	*Blue*	*120*	*1200*
3926-558	*Green*	*120*	*1200*
3926-559	*Assorted*	*120*	*1200*

PCR Work-up Rack, page 47

See Compatibility Chart on page 49

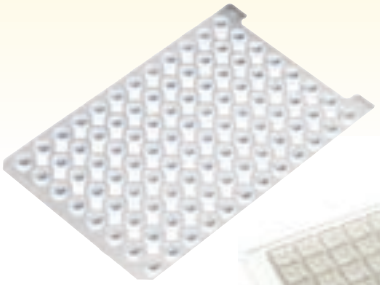
Now DNA tested

PCR Plate Sealing Mats and Film

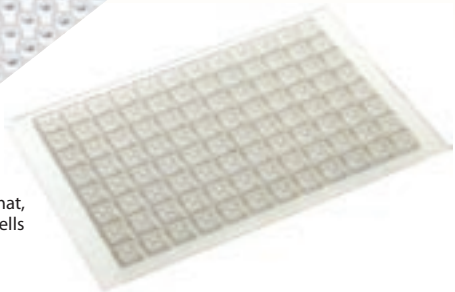
Sealing mats and sealing film from Labcon are made to reduce evaporation when cycling plates. Reusable silicone mats fit most brands of 96 well PCR plates and can be cleaned and reused. Autoclavable at 121°C.

Sealing film is 3 mil polypropylene and has an adhesive backing that adheres to most PCR plates and has an operating temperature from -40 to 125°C.

Cat No.	Description	Unit	Case
96 Well Silicone Sealing Mat			
3992-820	*Silicone Sealing Mat, Round Wells, Natural*	*5*	*50*
96 Well Silicone Sealing Mat			
3994-520	*Silicone Sealing Mat, Square Wells, Natural*	*5*	*50*
Sealing Film			
3991-520	*Polypropylene Sealing Film*	*100*	*1200*
3991-525	*Polypropylene Sealing Film, Sterile*	*100*	*1200*



Silicone mat, Round Wells 3992



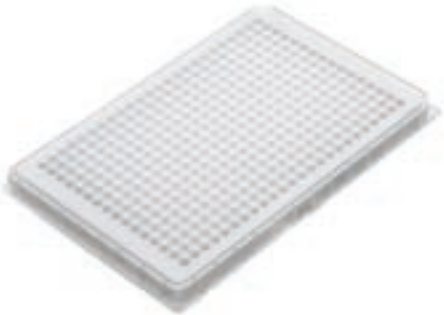
Silicone mat, Square Wells 3994

Sealing film 3991

384 Well PCR Plates

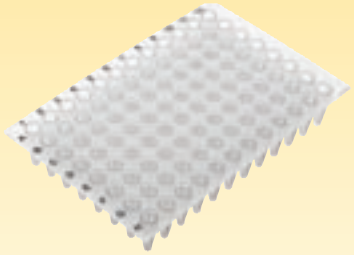
384 well PCR plates are made for high throughput thermocycling applications. These plates are very flexible and skirted to allow bar coding. Each plate includes alpha numeric labeling with a frosted labeling area. Each well holds 25µL and has smooth inner walls for rapid heat transfer. Slightly raised walls seal with films or foils. Autoclavable. Made of polypropylene.

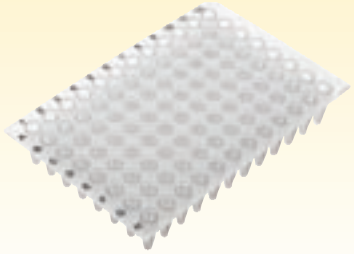
Cat No.	Description	Unit	Case
384 Well Skirted PCR plates with molded Alpha Numeric Labeling			
3983-520	*384 Well PCR Plate, Natural*	*10*	*100*



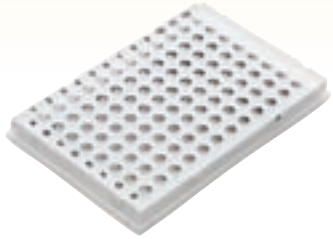
Now DNA tested

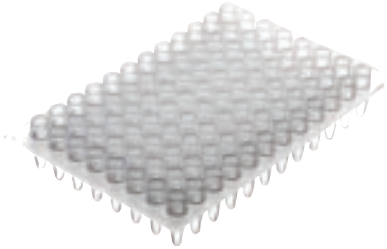
Our 96 0.2mL well PCR plates are available in styles to fit most popular thermocyclers including the Applied Biosystems 9600 and 9700. MJ Research PTC-100 and others. Autoclavable. Lot tested and certified free of Rnase, Dnase and Human DNA. Polypropylene.





Colors





See Compatibility Chart on page 49

Cat No.	Description	Unit	Case
	96 Well PCR plates with printed Alpha Numeric Labeling		
3977-520	*96 Well PCR Plate, Natural*	*10*	*100*
3977-522	*96 Well PCR Plate, Yellow*	*10*	*100*
3977-523	*96 Well PCR Plate, Orange*	*10*	*100*
3977-524	*96 Well PCR Plate, Red*	*10*	*100*
3977-526	*96 Well PCR Plate, Purple*	*10*	*100*
3977-527	*96 Well PCR Plate, Blue*	*10*	*100*
3977-528	*96 Well PCR Plate, Green*	*10*	*100*
3977-529	*96 Well PCR Plate, Assorted*	*10*	*100*
	96 Well Low Profile PCR plates with printed Alpha Numeric Labeling (Low profile plates have smaller wells)		
3971-520	*96 Well PCR Plate, Natural*	*20*	*100*
3971-522	*96 Well PCR Plate, Yellow*	*20*	*100*
3971-523	*96 Well PCR Plate, Orange*	*20*	*100*
3971-524	*96 Well PCR Plate, Red*	*20*	*100*
3971-526	*96 Well PCR Plate, Purple*	*20*	*100*
3971-527	*96 Well PCR Plate, Blue*	*20*	*100*
3971-528	*96 Well PCR Plate, Green*	*20*	*100*
3971-529	*96 Well PCR Plate, Assorted*	*20*	*100*
	96 Well Skirted PCR plates with printed Alpha Numeric Labeling		
3978-520	*96 Well PCR Plate, Natural*	*10*	*100*
3978-522	*96 Well PCR Plate, Yellow*	*10*	*100*
3978-523	*96 Well PCR Plate, Orange*	*10*	*100*
3978-524	*96 Well PCR Plate, Red*	*10*	*100*
3978-526	*96 Well PCR Plate, Purple*	*10*	*100*
3978-527	*96 Well PCR Plate, Blue*	*10*	*100*
3978-528	*96 Well PCR Plate, Green*	*10*	*100*
3978-529	*96 Well PCR Plate, Assorted*	*10*	*100*
	96 High Well PCR plates (these can be sealed with strip caps on page 41)		
3974-520	*96 Well PCR Plate, Natural*	*10*	*100*
3974-522	*96 Well PCR Plate, Yellow*	*10*	*100*
3974-523	*96 Well PCR Plate, Orange*	*10*	*100*
3974-524	*96 Well PCR Plate, Red*	*10*	*100*
3974-526	*96 Well PCR Plate, Purple*	*10*	*100*
3974-527	*96 Well PCR Plate, Blue*	*10*	*100*
3974-528	*96 Well PCR Plate, Green*	*10*	*100*
3974-529	*96 Well PCR Plate, Assorted*	*10*	*100*
	96 Well Half Skirt PCR plates with printed Alpha Numeric Labeling		
3973-520	*96 Well PCR Plate, Natural*	*10*	*100*
3973-522	*96 Well PCR Plate, Yellow*	*10*	*100*
3973-523	*96 Well PCR Plate, Orange*	*10*	*100*
3973-524	*96 Well PCR Plate, Red*	*10*	*100*
3973-526	*96 Well PCR Plate, Purple*	*10*	*100*
3973-527	*96 Well PCR Plate, Blue*	*10*	*100*
3973-528	*96 Well PCR Plate, Green*	*10*	*100*
3973-529	*96 Well PCR Plate, Assorted*	*10*	*100*
	96 Well Low Profile Half Skirt PCR plates, printed Alpha Numeric Labeling		
3976-520	*96 Well PCR Plate, Natural*	*10*	*100*
3976-522	*96 Well PCR Plate, Yellow*	*10*	*100*
3976-523	*96 Well PCR Plate, Orange*	*10*	*100*
3976-524	*96 Well PCR Plate, Red*	*10*	*100*
3976-526	*96 Well PCR Plate, Purple*	*10*	*100*
3976-527	*96 Well PCR Plate, Blue*	*10*	*100*
3976-528	*96 Well PCR Plate, Green*	*10*	*100*
3976-529	*96 Well PCR Plate, Assorted*	*10*	*100*
	96 Well PCR plates, with Raised Lip and printed Alpha Numeric Labeling		
3979-520	*96 Well PCR Plate, Natural*	*10*	*100*
3979-522	*96 Well PCR Plate, Yellow*	*10*	*100*
3979-523	*96 Well PCR Plate, Orange*	*10*	*100*
3979-524	*96 Well PCR Plate, Red*	*10*	*100*
3979-526	*96 Well PCR Plate, Purple*	*10*	*100*
3979-527	*96 Well PCR Plate, Blue*	*10*	*100*
3979-528	*96 Well PCR Plate, Green*	*10*	*100*

PCR Disposables for Real Time PCR

Our PCR disposables for real time work include opaque white or black 96 well plates in three styles. These plates work better when used for certain thermocyclers that use fluorescence to measure results since they block stray readings from adjacent wells. Use these plates with our optically clear sealing strips for a complete package. All plates include printed labeling. Polypropylene.

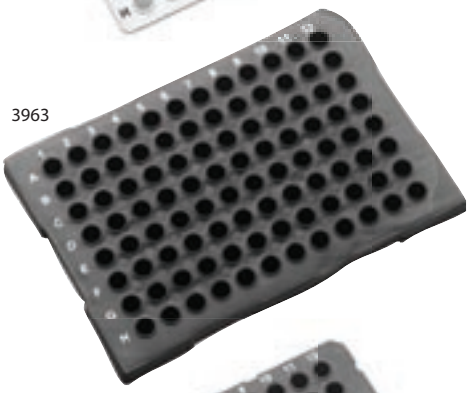
Our 0.2mL strips with attached optically clear caps can be used with most thermocyclers that accept 0.2mL strips.

NEW

Cat No.	Description	Unit	Case
0.2mL Flat Plates			
3967-521	*Black opaque plates*	*10*	*100*
3967-520	*White opaque plates*	*10*	*100*
0.2mL Plates with Half Shirts for ABI ® style thermocyclers			
3963-521	*Black opaque plates*	*10*	*100*
3963-520	*White opaque plates*	*10*	*100*
0.2mL Skirted Plates			
3968-521	*Black opaque plates*	*10*	*100*
3968-520	*White opaque plates*	*10*	*100*
Optically Clear Polypropylene Strip Caps			
3951-850	*8 Strip Clear Caps*	*125*	*1250*
0.2mL Real Time PCR strips with attached Optically clear caps			
3937-540	*8 Strip with attached caps*	*120*	*1200*
0.2mL Real Time Low Profile PCR strips with attached Optically clear caps			
3938-540	*8 Strip with attached caps*	*120*	*1200*

3967

3963



3968

3951

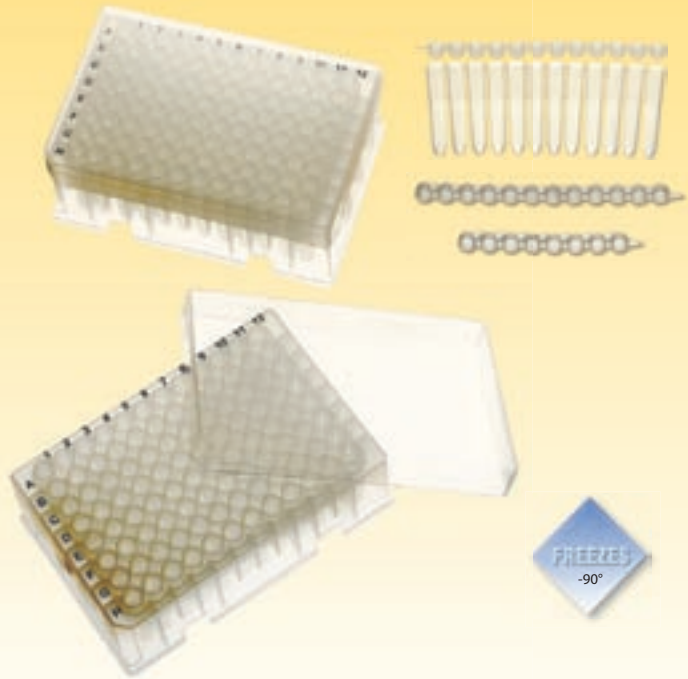
3938

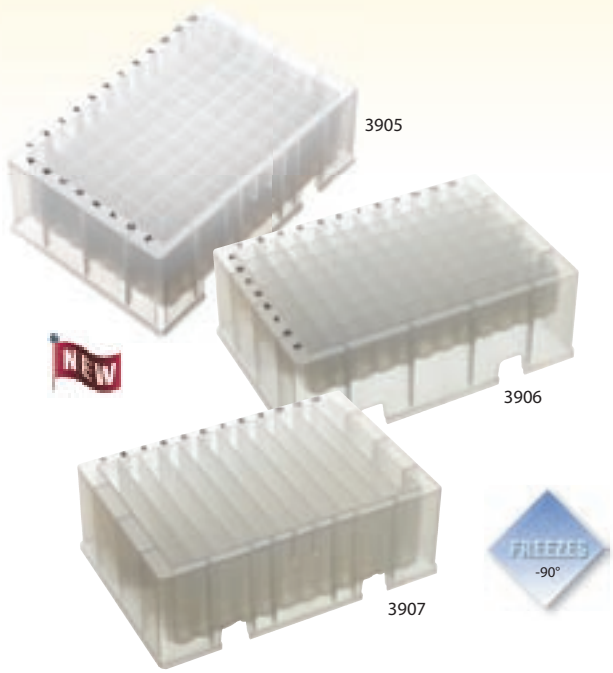
See Compatibility Chart on page 49

Sample Library Tubes

These 1.2mL sample library tubes are supplied in a 96 tube format for storage of specimens. Each rack is printed with an alpha numeric grid that allows you to easily find a sample. The rack is designed to meet SBS standards and can be used in robotic applications. A clear snug fit lid is included. In individual tube, 8 strip, and 12 strip formats. Racks, tubes and lid are autoclavable and freezable (-90°C). Made of polypropylene. Separate polyethylene closures strips are available for tubes.

Cat No.	Description	Unit	Case
3910-540	96 Individual Tubes, Racked	10	100
3911-540	96 8-Strip Tubes, Racked	10	100
3912-540	96 12-Strip Tubes, Racked	10	100
3913-850	8 Strip Tube Closures	125	1250
3914-840	12 Strip Tube Closure	80	800





2.2 & 1.2mL 96 Well Deep Well Plates

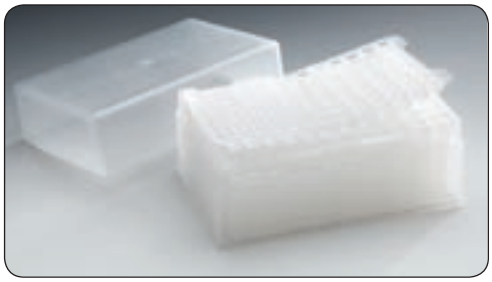
These heavy deep well plates feature printed alpha numeric labeling and smooth inside surfaces to ensure that all the sample can be pipetted. They are designed to be manipulated by robots and can be autoclaved and sealed using film or mats. Freezable -90°C.

Cat No.	Description	Unit	Case
3905-520	2.2mL polypropylene 96 well plate, natural	10	100
3906-520	1.2mL polypropylene 96 well plate	10	100
3907-520	22mL polypropylene 12 well reservoir	5	20

Extra Volume 2.5mL 96 Square Well Plate System

These square hole plates hold a full 2.5mL** (2.2 with mat in place) and work as storage plates or reservoirs. A black snap in corner marker ensure proper orientation. Openings in the plate sides permit easy removal of mats or film. A clear lift off lid is available for transport or freezer storage. The clear lid fits even with a mat in place. Lid and plate of polypropylene. Autoclavable. Freezable -90°C.

Cat No.	Description	Unit	Case
3900-520	Deep Well Plate/Reservoir		10
3902-520	Deep Well Plate/Reservoir with Lid		10



- *Lab tested low evaporation*
- *SBS* Format*

See mats on page 45.

FREEZES
-90°

* *Society for Biomolecular Screening*
** *2.2mL with silicone mat in place*

PCR Disposables on pages 44-46.

Thermocycler Brand / Labcon item #		3934	3936	3925	3926	3945	3940	3955	3950	3977	3971	3976	3974	3978	3983
APPLIED BIOSYSTEMS	2400	◆	◆	◆	◆	◆	◆	◆	◆						
	2700	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
	9600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
	9700	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆
	Dual 384														◆
BIORAD	Genecycler	◆	◆												
	Icycler	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		◆
EPPENDORF	Mastercycler	◆	◆												
	Mastercycler Personal	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	
	Mastercycler Gradient	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	
	Mastercycler 384														◆
ERICOMP	Singleblock	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	Twinblock	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	Deltacycler	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	Deltacycler II	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	Powerblock	◆	◆	◆	◆	◆	◆	◆	◆						
LABLINE	212	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
	214	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	225												◆		
	226	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆				
	227	◆	◆	◆	◆	◆	◆	◆	◆						
MJ RESEARCH	PTC-100	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
	PTC-200	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
	PTC-225	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
MWG	Primus 25	◆	◆												
	Primus 96	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	Primus 384														◆
ONCOR	Crocodile III	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
OPERON	OPR-PCR96	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
STRATAGENE	Robocycler 96	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	
TAKARA	TP-240	◆	◆												
	TP-3000	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
TECHNE	Techgene	◆	◆										◆	◆	
	Touchgene	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
	Cyclogene												◆	◆	
	Flexigene	◆	◆	◆	◆	◆	◆	◆	◆					◆	
	Genius	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
	Genius Quad	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		◆
THERMO HYBAID	PCR Sprint			◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
	PCR Express	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
	PxE													◆	
	Omnigene	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
	MultiBlock									◆	◆		◆	◆	
	OMN-E	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
	Touchdown	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	
THERMOLYNE	Amplitron II	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
WHATMAN BIOMETRA	Uno	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		
	Uno II	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆		◆
	T1Personal Cycler	◆	◆	◆	◆	◆	◆	◆	◆						
	T1	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
	T1Plus	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆
	T3	◆	◆	◆	◆	◆	◆	◆	◆						
	Tgradient	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	

Real Time PCR Disposables on pages 47.

Thermocycler Brand		3977	3971	3967-520	3967-521	3978	3978-521	3973, 3939	3963-520	3963-521	3983
APPLIED BIOSYSTEMS	7000							◆	◆	◆	
	7700	◆		◆				◆	◆	◆	
	7900HT							◆	◆	◆	
	7300	◆		◆							
	7500	◆		◆							
BIONEER	Exicycler				◆						
BIORAD	icycler	◆		◆	◆						
	MyiQ	◆		◆	◆						
BIO RAD-MJ RESEARCH	Chromo4					◆	◆				
	Opticon2					◆	◆				
EPPENDORF	Mastercycler ep Gradient	◆									
	Mastercycler ep Gradient S	◆									
	Mastercycler ep 384										◆
STRATAGENE	MX3000P	◆				◆	◆				
	MX3005P	◆				◆	◆				
	MX4000					◆	◆				
TECHNE	Quantica		◆				◆				

This information is believed to be true at the time of printing. However, instrument manufacturers routinely modify the designs of their products without notice. Please test the items above with the instrument shown before use.

UrineTime™ II 24 Hour Collection System

- *New Two Liter Bottles*
- *Keyed Bottles More Stable*
- *New Package Options*

UrineTime™ II kits come complete with everything you need to collect safely two separate samples over 24 hours.

UrineTime II™ from Labcon improves on an already great product. The new 2 liter keyed bottles are much more stable than our previous model and with their keyed sides they now stay firmly oriented and locked together.

UrineTime II Solves an Old Problem

This occurs when more than one assay is needed for a single 24 hour urine sample and the assays require different preparations or preservatives. Unlike the usual method of collecting samples over two days the UrineTime™ II reduces the time it takes to collect samples and speeds the diagnosis and treatment process.

UrineTime II is Convenient

Understanding and using UrineTime II is convenient for patients. And since their treatment can begin a full day earlier better care is assured.

Cost

UrineTime II is provided with everything needed to collect two 24 hour samples. Staff time is reduced since labels, packaging and transport accessories are provided in a neat assembly. And UrineTime™ II is perfect for outpatient use so there is no need to ensure compliance by admission.

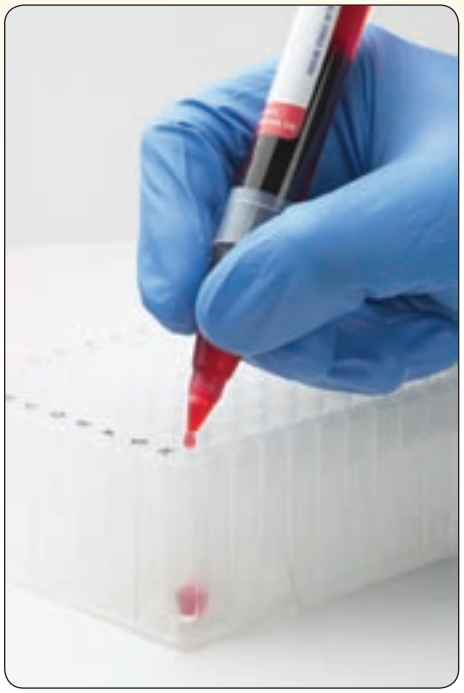
Available in a single use kit, 4 kits in a box, or economical ready to assemble bulk packaging.

Cat No.	Description	Unit	Case
4010-110	*1 Assembled Unit*	*1*	*1*
4010-420-010	*4 Assembled Units*	*1*	*4*
4010-920-010	*5 Units Ready to Assemble*	*5*	*5*

- *Fits standard 13 x 100 and 16 x 100 collection tubes*
- *Available with integral filters for prep work*
- *Color coded*

Tip Top™ Dispenser Caps

A safe and cost effective way of dispensing samples in your lab.



The Tip Top is a disposable cone shaped cap that fits all standard 13 or 16mm tubes. A small opening allows you to dispense fluid without removing the Tip Top cap so you can prepare smears on slides or dispense into reagent well or micro centrifuge tubes.

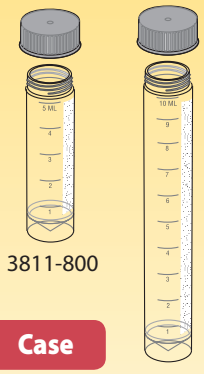
- ***Convenient -*** just tilt the tube and squeeze to dispense one drop
- ***Safe -*** you don't need to open the tube and pipet out of the tube so spillage is reduced along with potential exposure to infectious disease
- ***Low Evaporation -*** A flexible cap is available to cover the Tip Top so you can store samples in the refrigerator.
- ***Color Coded -*** available in three colors for easily lab organization

The Tip Top cap can be used with almost any liquid. Made from chemically resistant polyethylene they can dispense serum, reagents, plasma, whole blood and CSF. A filtered version is available for use as a serum separator or reagent blender.

Cat No.	Description	Unit	Case
Tip Tops for 13mm tubes			
5501-800	*Natural, 100/resealable bag*	*1000*	*5000*
5503-804	*Red, 100/resealable bag*	*1000*	*5000*
5505-807	*Blue, 100/resealable bag*	*1000*	*5000*
Tip Tops for 16mm tubes			
5502-800	*Natural, 100/resealable bag*	*1000*	*5000*
5504-804	*Red, 100/resealable bag*	*1000*	*5000*
5506-807	*Blue, 100/resealable bag*	*1000*	*5000*
Tip Tops with Integral Filters			
5511-800	*Natural, Fits 13mm tubes, 1000/bag*	*1000*	*5000*
5512-800	*Natural, Fits 16mm tubes, 1000/bag*	*1000*	*5000*
Closures for Sealing Tip Top Caps			
5515-804	*Closure, Red, 1000/bag*	*1000*	*5000*

5mL and 10mL Sample Tubes

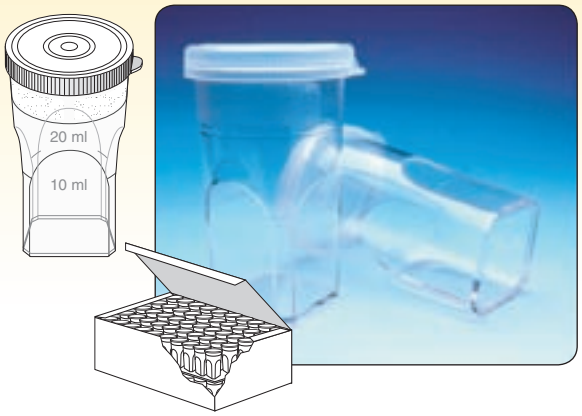
Leakproof freestanding mailing tubes with screw caps feature graduations at 1mL increments and a large frosted writing surface for convenient labeling and identification. Each tube is molded from durable polypropylene, has a conical bottom, and a wide skirted base. Polyethylene screw caps are included. Tubes are autoclavable.



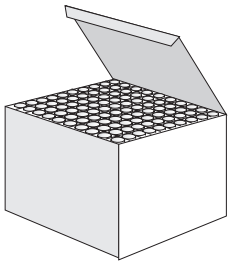
Cat No.	Description	Unit	Case
3811-800	5mL tube, polypropylene, with screw cap	500	1000
3812-800	10mL tube, polypropylene, with screw cap	500	1000
3811-840	10mL tube, polypropylene, with screw cap, 50/bag	50	1000

Dilution Vials

Vials are particle free with an attached leak proof polyethylene cap. Vials are made from virgin polystyrene and can be used in a blood cell counter.



Cat No.	Description	Unit	Case
2030-550	Vials, 144/Sectioned Box, 5 Boxes/Case	144	720
2025-800	Vials, 1000, Bulk	1000	1000



Sectioned box

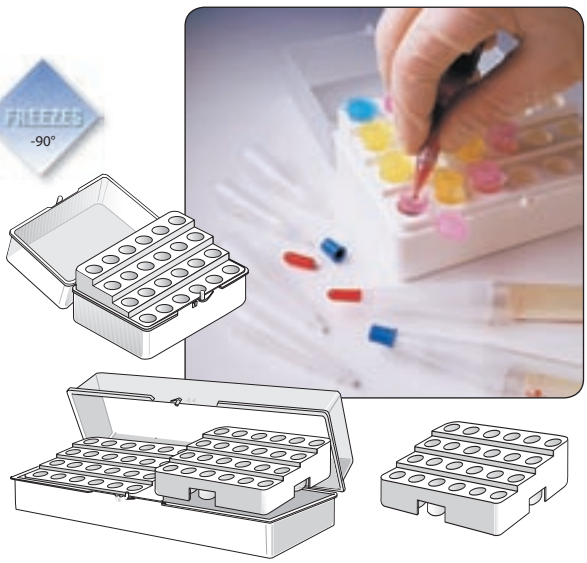
15mL Centrifuge Tubes

Disposable 15mL Urine Centrifuge Tubes have visible graduations and fit standard centrifuge heads. Caps are made from low density polyethylene.

Cat No.	Description	Unit	Case
3060-540	Tube, Polystyrene, 100 box	100	1000
3061-540	Tube, Polypropylene, 100 box	100	1000
3050-870	Tube, Polystyrene, Bulk	500	1000
3061-870	Tube, Polypropylene, Bulk	500	1000
3055-870-010	Cap for 15mL Tubes, Plug style, Polyethylene	500	1000

24 & 48 Place Racks

48 Hole and 24 Place micro centrifuge tube and cryo-vial storage system. For 1.7ml and 2.0ml sizes. These racks fit into Labcon pipet tip boxes and are made of recycled plastic. Fully autoclavable (122°C) and freezable (-90°C). Racks float in your water bath and can incorporate dry ice for use with frozen samples on the bench, and are stackable.



Cat No.	Description	Unit	Case
3035-500	24 Place Rack, in hinged box, 10/Pkg.	10	100
3036-220	24 Place Rack, without box, 10/Pkg.	10	100
3035-230	48 Place Rack, in hinged box, 5/Pkg.	5	50
1215-120	Hinged Box for 2-24 place racks, 5/Pkg. (Racks not included)	5	50

Chemical Resistance Chart

Hi Density Polyethylene and Low Density Polyethylene have the same chemical resistance properties. Chemical resistance is shown on a sliding scale of ▲ to ◆.

high resistance ▲ ● ■ ◆ no resistance

*Note: Resistance was tested at: **20°C; 60°C; 100°C.**, so each listing below may have more than one symbol applied.*

TYPE OF PLASTIC	TEMP. RANGE °C	
Hi Density Polyethylene (PE)	-40	+140
Low Density Polyethylene (PE)	-40	+100
Polypropylene (PP)	-90	+140
Polystyrene (PS)	-40	+90
Polycarbonate (PC)	-190	+140

	%CONC	PE	PP	PS
Acetic Acid (glacial)	97	■ ◆	▲ ● ■	● ◆
Acetic Acid	50	● ■	▲ ▲ ●	▲ ▲
Acetone	100		▲ ● ■	◆ ◆
Acetophenone	100	● ●	● ■	◆ ◆
Aluminum chloride		▲ ▲	▲ ▲	▲ ▲
Ammonia (aqueous)		▲ ▲	▲ ▲	▲ ▲
Ammonium carbonate	satd.	▲ ▲	▲ ▲ ▲	▲ ▲
Ammonium sulphate	satd.	▲ ▲	▲ ▲	▲ ▲
Amyl acetate	100	◆ ◆	● ■	◆ ◆
Amyl alcohol	100	▲ ▲	▲ ●	▲ ▲
Aniline	100	■ ◆	● ●	◆ ◆
Aqua regia		◆ ◆	◆ ◆	◆ ◆
Barium carbonate	100	▲ ▲	▲ ▲	▲ ▲
Barium chloride	satd.	▲ ▲	▲ ▲	▲ ▲
Benzaldehyde		▲ ◆	▲ ●	◆ ◆
Benzene		◆ ◆	◆ ◆	◆ ◆
Benzoic acid	100	▲ ▲	▲ ▲	▲ ▲
Benzyl acetate	satd.	● ●	● ■	◆ ◆
Benzyl alcohol		▲ ▲	▲ ●	◆ ◆
Borax	satd.	▲ ▲	▲ ▲	▲ ▲
Boric acid		▲ ▲	▲ ▲	▲ ▲
Bromine liquid	satd.	◆ ◆	◆ ◆	◆ ◆
Butyl acetate		■ ■	■ ◆	◆ ◆
Butyl alcohol	100	▲ ▲	▲ ▲	▲ ▲
Butyric acid		● ◆	◆ ◆	◆ ◆
Calcium chloride	satd.	▲ ▲	▲ ▲	▲ ▲
Calcium hypochlorite bleach		▲ ▲	▲ ▲	▲ ●
Carbon dioxide (wet)		▲ ▲	▲ ▲	▲ ▲
Carbon disulphide		◆ ◆	◆ ◆	◆ ◆
Castor oil		▲ ▲	▲ ▲	▲ ▲
Cetyl alcohol		▲ ▲	▲ ●	▲ ▲
Chlorine	100	◆ ◆	◆	■ ◆
Chlorobenzene		◆ ◆	◆ ◆	◆ ◆
Chloroform	100	◆ ◆	◆ ◆	◆ ◆
Chlorosulfonic acid	100	◆ ◆	◆ ◆ ◆	◆ ◆
Chromic acid	50	● ■	▲ ● ■	● ●
Cider		▲ ▲	▲ ▲	▲ ▲
Citric acid		▲ ▲	▲ ●	▲ ▲
Copper sulfate	satd.	▲ ▲	▲ ▲ ●	▲ ▲
Cottonseed oil	satd.	▲ ▲	▲ ▲ ●	▲ ▲
Cyclohexane	satd.	▲ ▲	■ ◆	◆ ◆
Cyclohexanol		▲ ▲	● ■	▲ ●
Cyclohexanone	100	◆ ◆	● ■	◆ ◆
Decalin		■ ■	■ ■	◆ ◆
Detergents		▲ ▲	▲ ▲	▲
Diacetone alcohol		▲ ●	▲ ●	▲ ■
Dibutyl phthalate		■ ◆	■ ◆	◆ ◆
Dichlorobenzene		● ■	■ ■	◆ ◆
Diethylene glycol		▲ ▲	▲ ▲	▲ ▲
Ethanol	95	▲ ▲	▲ ▲	▲ ▲
Ethyl acetate		■ ■	● ●	◆ ◆
Ethyl benzene	40	■ ◆	● ◆	◆ ◆
Ethyl chloride		◆ ◆	■ ◆	◆ ◆
Ethylene glycol	100	▲ ▲	▲ ▲	▲ ▲
Formaldehyde		▲ ▲	▲ ▲	▲ ▲
Formic acid	100	▲ ▲	▲ ▲ ●	▲ ●
Fuel oil		■ ◆	● ■	● ◆
Furfural		◆ ◆	■ ◆	◆ ◆
Gasoline		◆ ◆	● ■	◆ ◆
Glycerine		▲ ▲	▲ ▲	▲ ▲
Heptane		◆ ◆	◆ ◆	◆ ◆
Hydrochloric acid	50	▲ ▲	▲ ▲	▲ ■
Hydrofluoric acid	40	▲ ▲	▲ ▲	▲ ●
Hydrogen peroxide		▲ ●	▲ ■	▲ ▲
Hydrogen sulfide		▲ ▲	▲ ▲	● ◆
Hydroquinone		▲ ▲	▲ ▲	▲ ●
Iodine tincture		● ●	● ●	●
Kerosene		● ■	● ■	◆ ◆
Lactic acid		▲ ▲	▲ ▲	▲ ▲
Lanolin		▲ ▲	▲ ▲	▲ ▲
Lead acetate	100	▲ ▲	▲ ▲	▲ ▲
Linseed oil	satd.	▲ ▲	▲ ▲	▲ ▲
Magnesium carbonate		▲ ▲	▲ ▲	▲ ▲
Magnesium chloride	satd.	▲ ▲	▲ ▲	▲ ▲
Magnesium sulfate	satd.	▲ ▲	▲ ▲	▲ ▲
Mercuric chloride		▲ ▲	▲ ▲	▲ ▲

	%CONC	PE	PP	PS
Mercury		▲	▲ ▲	▲
Methanol		▲ ▲	▲ ▲	▲ ▲
Methyl acetate		▲ ▲	▲ ●	◆ ◆
Methylene chloride	100	◆ ◆	● ■	◆ ◆
Methyl ethyl ketone	100	◆ ◆	▲ ●	◆ ◆
Methyl isobutyl ketone	100	◆ ◆	● ■	◆ ◆
Methyl propyl ketone		● ■	● ■	◆ ◆
Mineral spirits	100	▲ ■	▲ ■	◆ ◆
Naphthalene	100	▲ ■	▲ ▲	■ ◆
Nickel sulfate	satd.	▲ ▲	▲ ▲	▲ ▲
Nitric acid	satd.	▲ ▲	◆ ◆	◆ ◆
Nitric acid	fuming	◆ ◆	◆ ◆ ◆	◆ ◆
Nitrobenzene		◆ ◆	◆ ◆	◆ ◆
Octane		▲ ▲	▲ ▲	▲ ●
Oleic acid		▲ ●	▲ ●	▲ ●
Olive oil		▲ ▲	▲ ▲	▲ ▲
Oxalic acid (aqueous)		▲ ▲	▲ ●	▲ ▲
Ozone	50	◆ ◆	◆ ◆	▲ ▲
Petroleum ether	100	◆ ◆	■ ■	◆ ◆
Phenol (liquid)		● ■	● ■	■ ◆
Phosphoric acid	100	▲ ▲	▲ ▲	▲ ▲
Potassium bichromate		▲ ▲	▲ ▲	▲ ●
Potassium bromate	satd.	▲ ▲	▲ ▲	▲ ▲
Potassium bromide		▲ ▲	▲ ▲	▲ ▲
Potassium carbonate	1	▲ ▲	▲ ▲	▲ ▲
Potassium chloride	satd.	▲ ▲	▲ ▲	▲ ▲
Potassium chromate	satd.	▲ ▲	▲ ▲	▲ ▲
Potassium dichromate	satd.	▲ ▲	▲ ▲	● ■
Potassium fluoride	satd.	▲ ▲	▲ ▲	▲ ▲
Potassium hydroxide		▲ ▲	▲ ▲	▲ ▲
Potassium nitrate		▲ ▲	▲ ▲	▲ ▲
Potassium permanganate	satd.	▲ ▲	▲ ▲	▲ ▲
Potassium sulfate	satd.	▲ ▲	▲ ▲	▲ ▲
Potassium sulfide	10	▲ ▲	▲ ▲	▲ ▲
Propane		■ ◆	■ ■	◆ ◆
Propanol		▲ ▲	▲ ▲	▲ ●
Propylene glycol		▲ ▲	▲ ▲	▲ ▲
Propylene oxide		◆ ◆	◆ ◆	◆ ◆
Pyridine		■ ■	▲ ●	◆ ◆
Salicylic acid		▲ ▲	▲ ▲	▲ ▲
Silicone oil		▲ ▲	▲ ▲	▲ ●
Silver nitrate		▲ ▲	▲ ▲	▲ ▲
Sodium acetate	100	▲ ▲	▲ ▲	▲ ▲
Sodium borate	satd.	▲ ▲	▲ ▲	▲ ▲
Sodium bromide oil solution	satd.	▲ ▲	▲ ▲	▲ ▲
Sodium carbonate	satd.	▲ ▲	▲ ▲	▲ ▲
Sodium chloride		▲ ▲	▲ ▲	▲ ▲
Sodium fluoride	satd.	▲ ▲	▲ ▲	▲ ▲
Sodium hydroxide	satd.	▲ ▲	▲ ▲	▲ ▲
Sodium hypochlorite	satd.	▲ ▲	▲ ●	▲ ●
Sodium nitrate	15	▲ ▲	▲ ▲	● ■
Sodium sulfate		▲ ▲	▲ ▲	▲ ▲
Sodium sulfide		▲ ▲	▲ ▲	▲ ▲
Sodium sulfite		▲ ▲	▲ ▲	▲ ▲
Stearic acid, (crystals)	satd.	▲ ▲	▲ ▲	▲ ▲
Sulfur	satd.	▲ ▲	▲ ▲	▲ ▲
Sulfuric acid	satd.	● ■	● ■	▲ ▲
Sulfuric acid	98	■ ◆	■ ◆ ◆	▲ ●
Tannic acid	10	▲ ▲	▲ ▲ ▲	▲ ▲
Tartaric acid		▲ ▲	▲ ▲	▲ ▲
Tetrahydrofuran		■ ■	■ ■	◆ ◆
Tetralin		■ ■	■ ■ ■	◆ ◆
Thionil chloride		● ■	● ◆	◆ ◆
Toluene	100	◆ ◆	■ ■ ■	◆ ◆
Transformer oil	100	■ ◆	■ ◆	▲ ◆
Trichloroethylene		◆ ◆	◆ ◆	◆ ◆
Triethanolamine	100	▲ ▲	▲ ▲	▲ ▲
Triethylene glycol		▲ ▲	▲ ●	▲ ▲
Turpentine		● ●	■ ■	◆ ◆
Undecanol	100		▲ ● ■	▲ ▲
Urea		▲ ▲	▲ ▲	▲ ▲
Vinegar		▲ ▲	▲ ▲	▲ ▲
Water (all forms)		▲ ▲	▲ ▲	▲ ▲
Whiskey		▲ ▲	▲ ▲	▲
Xylene	100	◆ ◆	● ●	◆ ◆
Zinc chloride		▲ ▲	▲ ▲	▲ ▲
Zinc sulfate		▲ ▲	▲ ▲	▲ ▲

VERIFIED QUALITY

Products in this catalog are supplied by an ISO 9001 registered manufacturing facility. All aspects of these products are quality assured from development and design through delivery.

Certified testing is performed for those products noted lot by lot. These tests include Nuclease (Rnase Dnase) and Endotoxin (pyrogen). U.S.P. methods are used where available. Certificates are on file at the production facility.

Validation testing is completed for sterilization to ensure a valid sterile process is maintained. Bioburden studies and ISO 11137-1994 documentation is on file. Trace metal testing is performed for resins and certificates are on file.

U.S. Pharmacoepia Methods and Guidelines (U.S.P. Class VI) are used wherever applicable.

Resins used are compliant with FDA CFR Title 21 177.1520, 178.3295, 178.3297 and ISO 10993-3 to ensure they are not harmful to cells or tissue samples.

Spin rates for tubes are expressed as RCF (Relative Centrifugal Force). RCF is calculated for any rotor by using the formula RCF = (11.17 x 10 -7)RN 2 where R = Radius in mm from centrifuge spindle to bottom of tube and N = Speed of spindle in RPM. Always run a trial to establish the RCF of a tube for your application.

Items listed as autoclavable can be autoclaved at 122°C for 20 min 15PSI. Always back-off the caps of tubes to prevent collapse when autoclaving. A steam cycle should be used. Never use a glassware or dry cycle.

When freezing samples in tubes always provide adequate spacing to allow for even cooling rates. Inadequate spacing can cause cracking and crazing. Maximum nominal freezing temperatures in degrees C are noted for specific products. Maximum lowest temperature is for storage only. Bring to operating temperature of at least -40°C before use.

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