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Welcome to our 2013-2014 U.S. Catalog.

This year we are excited to bring you some major new product lines and some major changes at Labcon.

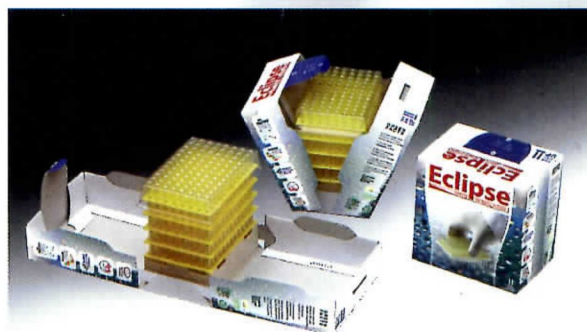
■ Eclipse Brand

In this catalog we are launching our Eclipse™ Pipet Tip brand. This is an extension of our extremely popular Eclipse product. You will see all our standard tips under this brand beginning this year.



■ Made with Solar Power

Since our last catalog, Labcon completed the installation of an 800kw solar array at our main manufacturing site in California. This array now produces about 30% of the electrical power we use to make our products. So you will notice that many of our products are labeled "Made with Solar Power". When you see that label it means we produce the energy ourselves. We are not buying solar energy credits or some other method to make that claim.



■ Adenosine Triphosphate Certification

We have added lot by lot testing for Adenosine Triphosphate (ATP) to our standard protocols. This very sensitive test detects the presence of ATP at a very low level and ensures that Labcon product is the very cleanest you can buy. No other manufacturer can claim products more free of contaminants than Labcon.



■ New Products

You can see in this catalog several new product lines including 175ml and 225ml centrifuge tubes, Eclipse UNO Refills with ZAP Aerosol Tips, Eclipse Refills in our Mini package, and ZapSlik™ Low Retention Filter tips. These new product lines represent over 50 new products for laboratories.

Please have a look inside this new catalog and let us know if we can be of service to you.



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 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, 96 and 384 Roborack™, Stack Rack, Eclipse™ and Pagoda® Refills in sterile and non sterile packages for more than 80 tip styles.

Professional Grade Resins

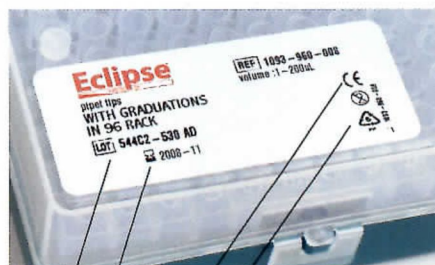
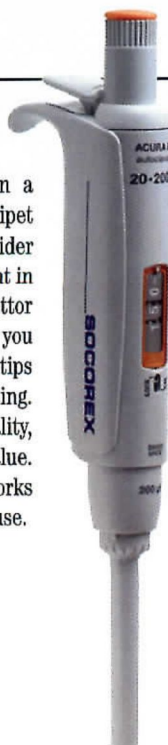
All the pipet tips we make start with high quality non-cytotoxic research grade 100% virgin polypropylenes. Many of our resins are formulated exclusively for us to our specifications. We avoid the low quality commodity resins and recycled plastic like most others use and pre-test all new resins in our 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 give 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 9001:2008 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, packaging options, and overall value. Then purchase a pipettor that works with the tips you have decided to use.



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



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 strips, and are easy to damage. 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 50 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 9001:2008 quality system has been registered throughout the world for more than a decade. 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 orifices. Labcon is also the only major supplier of products of this kind in the world to operate from a U.S. Food and Drug Administration registered medical device 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 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 resins used by other suppliers, 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 Sterile, Pre-Sterilized? Irradiated? Gamma Processed?

Labcon sterile products have been certified sterile using a validated 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 being truly 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 highest quality radiation stabilized virgin grade resins. Many other suppliers use lower grade commodity resins without radiation stabilization 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 reliable Gamma Irradiation process that ensures your product is really sterile. That's why you will notice our pipet tips and tubes are flexible, fit better, and are not stiff and brittle like many other suppliers.

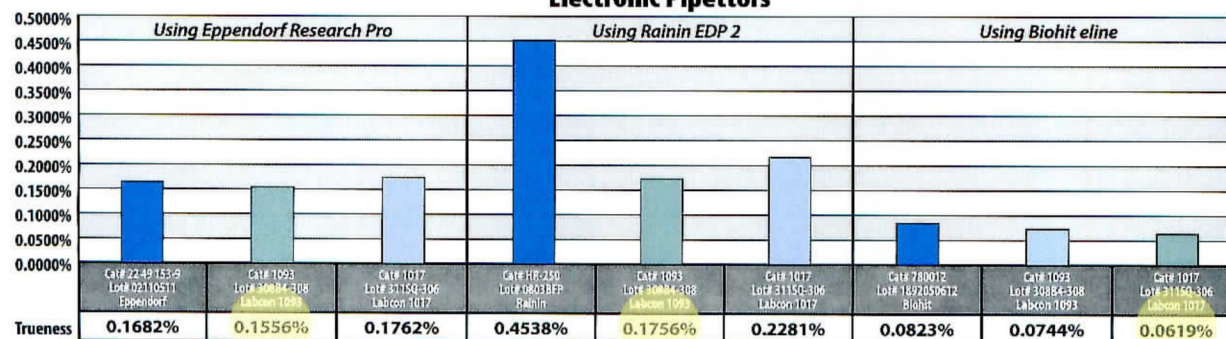
Labcon Pipet Tips Outperform Original Tips

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 we used a well known pipettor and the tips recommended by the pipettor manufacturer.

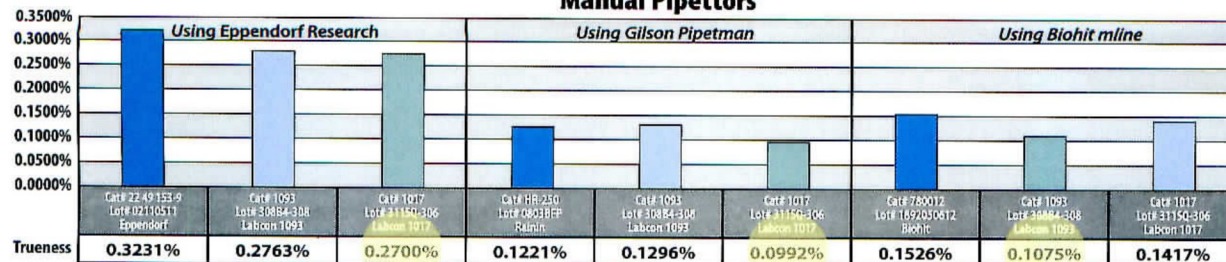
To make this an even more difficult test we did not calibrate the pipettor for Labcon tips. Instead, we left the pipettor set to the calibration we found it with. This method more readily matches the performance testing required for ISO 8655 certification.



Electronic Pipettors



Manual Pipettors



Best results are in green; lower % is better.

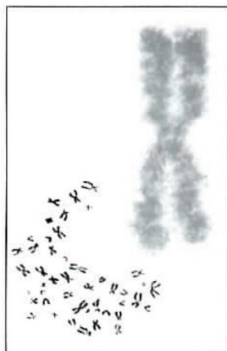


Nuclease (Rnase and Dnase)

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 at www.labcon.com.

Endotoxin

Using the kinetic turbidimetric limulus amebocyte lysate assay we test every lot of pipet tips, centrifuge tubes, microtubes, and culture tubes for endotoxin contamination. All 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 presence of Human DNA on those products noted in this catalog. These products are certified to be pure of Human DNA to a detection level of less than 1 picogram of DNA.

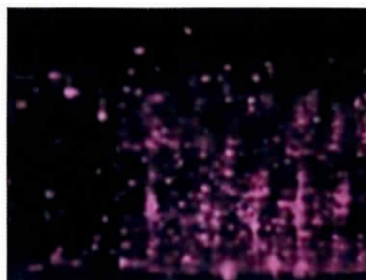


ATP

Adenosine triphosphate (ATP) is the universal molecule of energy storage that is used and produced by all living things. ATP testing of manufacturing processes and products can identify potential bacterial, fungal and human sources of contamination, and ensures that all certified products are free of biological contamination. An extensive survey of pipet tip, microcentrifuge and centrifuge tube products is used to confirm that certified ATP-free products are clean and free of contamination.

Protease

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



Resin Validation

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



Bioburden and Sterile Validation

Studies to detect microbial contamination on our 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.



Pb

Trace 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.



Eclipse™ Pipet Tips

Our Eclipse™ pipet tips include as standard many features available from other suppliers only as special upgrades. All the tips we make are made of high quality 100% pure virgin 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), 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 and available online at www.labcon.com.

The list below notes the special features of Eclipse brand tips shown on pages 9 and 15-21. Testing certification information is shown on page 4. Fit charts are shown on pages 26-32.

- S** Silicone entrained in the polypropylene formula pre-lubricates these tips for use with sticky DNA or other viscous materials. Allows you to set your equipment to screen out silicone.
- 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.
- P** Protease Free Low Retention 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 10 times better at dispensing viscous samples than ordinary tips. Lot tested to be free of protease contaminants and Human DNA.
- 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.
- G** These tips have graduations on the outside of the tip to help you visually confirm the pipettor draw during use.
- E** Our tips have been lot tested for the presence of endotoxins (pyrogens) and found to have levels below detectable limits.
- W** Extra wide opening allows you to pipet macrophages or sticky whole cells. Beveled end helps eliminate carry over from viscous solutions.
- 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.
- A** These tips have been lot tested for the presence of Adenosine Tri phosphate (ATP) and found to be free of detectable levels.



Eclipse FlexTop™ Low Force Pipet Tips for all popular pipettors



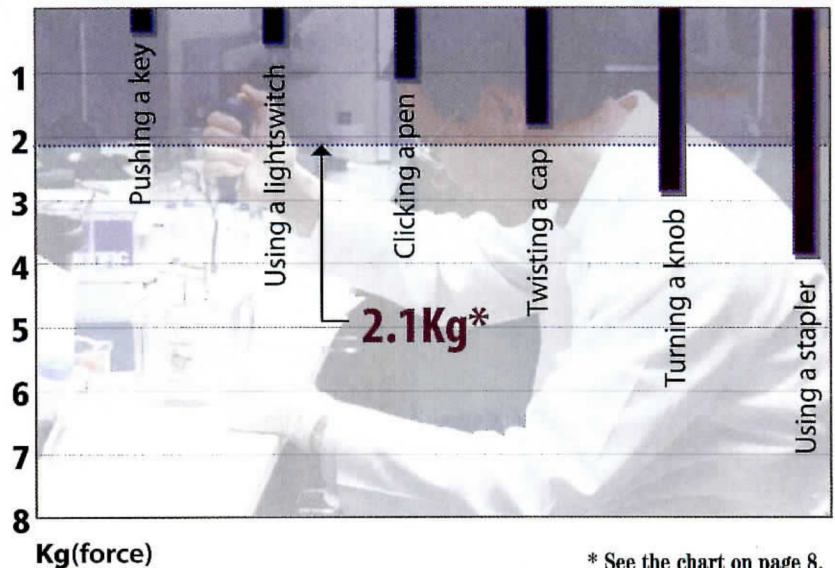
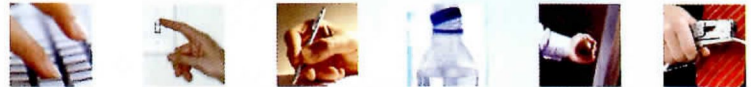
The repetitive work of mounting and ejecting pipet tips can place significant demands on your body and place you more at risk for some types of repetitive strain injuries. These pipet tips are designed to fit onto most popular pipettors and eject with forces shown to help reduce the risk of injury. By using Eclipse Low Force tips you don't have to invest in special pipettors to gain all the advantages of low force pipetting.

These pipet tips not only mount and eject with low force, they are made of clear pretested polypropylene and lot certified pure and free of human DNA, Protease, DNase, RNase, ATP, and they are non-pyrogenic. These tips are also available with autoclavable aerosol filters and in validated sterilized versions unlike the non-validated "pre-sterilized" product available from others. Moreover, every rack is labeled with the product number, production lot, recycling code, expiration date, and effective volume range of the tips inside.

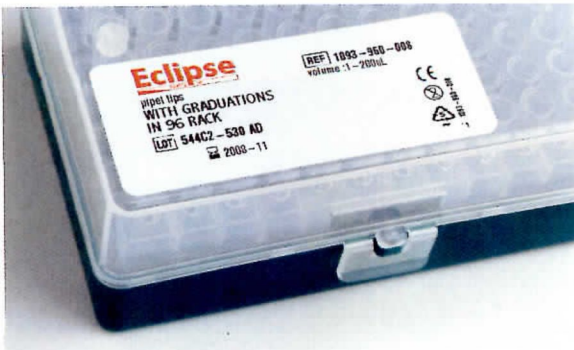
Other everyday tasks and the force required

In order to better understand how the forces in repetitive pipetting relate to those activities we do everyday, we measured those same forces involved in our everyday tasks.

At right is a chart of the results of this study. Compare the chart of forces at left to the chart on the next page to see how much work it takes for simple tasks. This is a good way of communicating to others the dynamic forces represented by repetitive pipetting. It also helps us to understand that ejecting Eclipse Low Force tips uses less force on most pipettors than twisting the cap on a water or soda bottle.



* See the chart on page 8.



Every rack is labeled with critical information



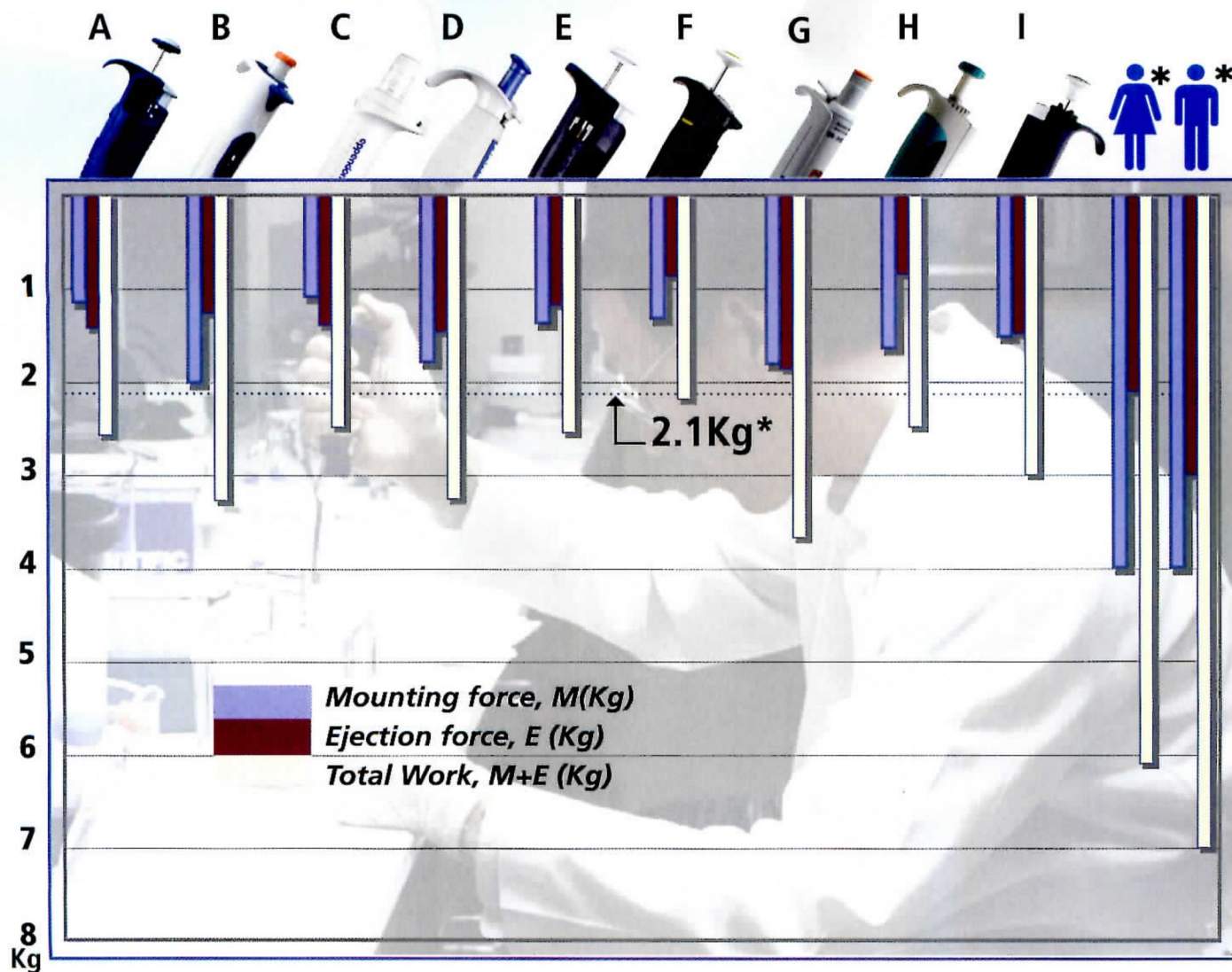
Every lot of Low Force tips is tested for RNase/DNase (Nuclease), Human DNA, and are tested and certified non-pyrogenic. Metals testing is done on a resin by resin basis.

LIQUID HANDLING

Eclipse FlexTop™ Low Force Pipet Tips for all popular pipettors

Labcon Eclipse FlexTop™ Low Force pipet tips are proven to exceed accepted standards* for reduced mounting and ejection forces

The chart below summarizes actual data from a study of the dynamic forces required to mount and eject 200µL Labcon tips from the pipettor brands shown. Results were obtained using a calibrated force gauge and the manufacturers' directions for use of the pipettor and tip mounting. Noted at the right of the chart for reference is a well accepted force norm for mounting and ejecting pipet tips by women and men*. Values shown are in Kilograms of force.** This study shows that use of Labcon Low Force tips, in combination with major brands of pipettors reduced the mounting and ejection forces to levels lower than accepted standards for women and men on all major pipettors. Ejection and mounting is also shown combined since they represent a realistic picture of the work forces you might experience in actual everyday use.†



This actual use data shows that Eclipse Low Force tips effectively mount and eject at forces that are low enough to reduce the potential for repetitive strain injuries without the purchase of special pipettors.

Pipettors Used In Study

- Labnet Discovery
- Biohit® mLine®
- Eppendorf®
- Hamilton® Softgrip®
- Gilson® Pipetman®
- Gilson® Ultra®
- Socorex® Acura®
- Thermo® Finn® pipette® Focus®
- Rainin® Lite Touch® 200*** †

* These values represent one recommendation of the maximum dynamic force that should be used repeatedly to eject pipet tips. This value for women is less than 2.1Kg and for men is 3.0Kg. Maximum recommended mounting forces of 4Kg are also shown.

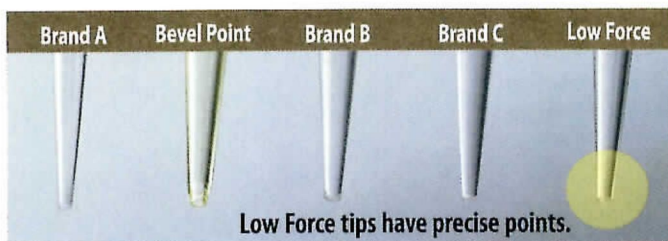
** A measure of force and can be converted to Newtons.

† Many claims are made about how little force is required to eject tips from some special low force pipettors; some as low as 0.6Kg however, these claims could not be confirmed in actual use with a calibrated force gauge.

Study results are on file, please contact us to request a copy of the complete study.



Eclipse FlexTop™ Low Force Pipet Tips for all popular pipettors



Certified Non-Pyrogenic



TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTORS SEE PAGES 26-32.
SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL SYMBOLS THAT APPEAR NEXT TO TIP PHOTOS.

Eclipse Pipet Tips with Low Mounting and Ejection Force

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

1. 30 µl with FlexTop™ and UltraFine™ Point Ht: 1.500"	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1016-960	96 Rack	960		9,600
	1016-965	96 Rack	960	✓	9,600
	1016-290-020	Pagoda Express Refill	1344		13,440
	1016-800	Loose pack tips	1000		10,000
2. 200 µl with FlexTop™ and UltraFine™ Point Ht: 1.955"	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1017-960	96 Rack	960		9,600
	1017-965	96 Rack	960	✓	9,600
	1017-290	Pagoda Express Refill	960		9,600
	1017-800	Loose pack tips	1000		10,000
	1017-260	Eclipse Refill	960		9,600
	1017-265	Eclipse Refill	960	✓	9,600
	1017-250	Eclipse Mini Refill	480		4,800
3. 300 µl with FlexTop™ and UltraFine™ Point Ht: 2.800"	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1014-960	96 Rack	576		4,608
	1014-965	96 Rack	576	✓	4,608
	1014-800	Loose pack tips	1000		10,000
	1014-260	Eclipse Refill	576		5,760

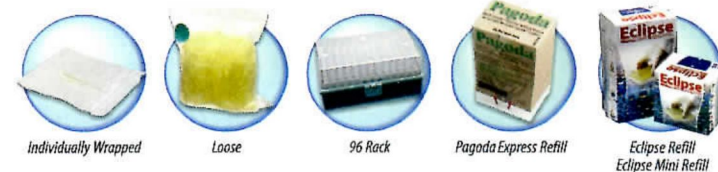
These high-quality, extra-long tips feature a uniquely thin and flexible top that conforms to the pipettor barrel unlike any other tips, forming a tight seal with minimal ejection force. They include a non beveled point that is extremely precise so you can easily dispense the smallest sample. In clear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

4. 200 µl Extended tips with FlexTop™ and UltraFine™ Point Ht: 3.300"	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1012-960	96 Rack	576		4,608
	1012-965	96 Rack	576	✓	4,608
	1012-800	Loose pack tips	1000		10,000

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 pipet barrel. The thin flexible top seals onto more pipets but ejects easily. Fits most 1000 µl pipettes. Clear 100% polypropylene. Tips and racks are autoclavable.

5. 100-1250 µl Extended tips with FlexTop™ and UltraFine™ Point Ht: 3.500"	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1045-960	96 Rack	576		4,608
	1045-965	96 Rack	576	✓	4,608
	1045-290-020	Pagoda Express Refill	576		5,760
	1045-800	Loose pack tips	1000		10,000
	1045-165	Individually Wrapped	200	✓	2,000
	1045-260	Eclipse Refill	480		4,800
	1045-265	Eclipse Refill	480	✓	4,800

Packaging Options



LIQUID HANDLING

Eclipse™ Pipet Tip Refills



Using Eclipse to refill a pipet tip rack is simple and easy



Revolutionary bio-plastic components only from Labcon

The Eclipse Pipet Tip Refill system from Labcon goes far beyond other reload systems to bring a complete refilling solution to your lab. With a simple lift, place, and snap, you can refill Labcon and other brands* of pipet tip racks with 18 different styles of tips. Eclipse refill tips are lab certified Rnase/Dnase and Non-Pyrogenic. Sterile refills use a validated sterile process and include an expiration date on every pack. The Eclipse is a revolution in pipet tip refills.

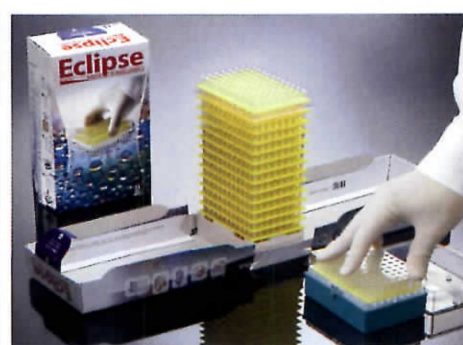
Far beyond simple recycle coding, the patent pending Eclipse is a completely designed system with a Low Carbon footprint that includes the first ever use of bio-plastic (non-petroleum) resin in pipet tip refills. And Eclipse's small footprint extends to the package, with a reclosable box that helps you maximize storage space in crowded labs.



1. Open the Eclipse and grasp transfer top. Lift straight up slowly.



2. Align transfer top over refillable rack and place onto rack.



3. Push down onto transfer top to release refill plate. Return transfer top to Eclipse refill stack.

**The patented hold down feature available on Labcon racks is not available in other racks. Not all racks will work with the Labcon refill system, check your racks for compatibility.*



The Eclipse™ Refill

A revolutionary **New** pipet tip refill system redefines **Green**

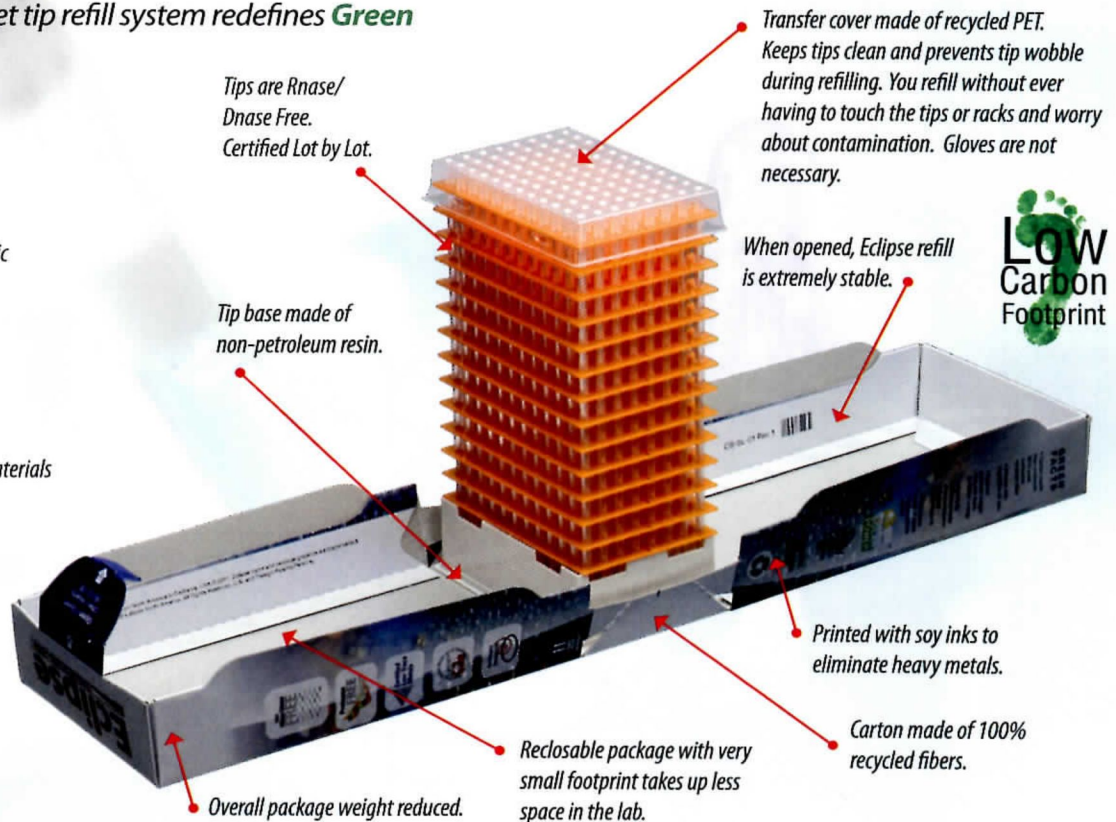
Exclusive features only from Eclipse™ refills

- Simple to use
- Tips to fit your pipettors
- Rnase/Dnase-free and Non pyrogenic
- Anti-wobble tip mounting
- 18 pipet tip styles
- Reclosable package
- Tips made from pure resins
- Refills existing tip racks
- Compact easy-store package
- Packaging made from renewable materials

Patents Pending



Eclipse™ Mini™ refill

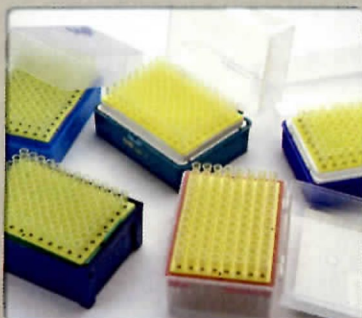


Quality

Every lot of Eclipse refills are tested for Rnase/Dnase (Nuclease), Human DNA, and Endotoxins and are certified free of contamination and non pyrogenic.

Refills many rack brands

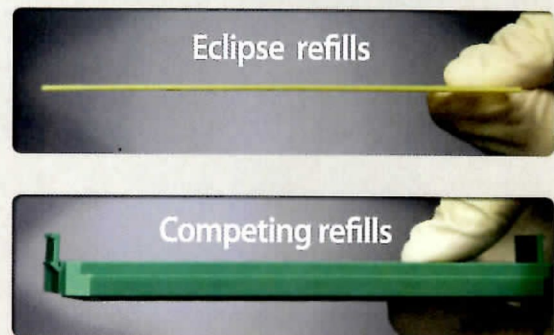
Refills many brands* of pipet tip racks. Not only Labcon racks.



*The patented hold down feature available on Labcon racks is not available in other racks. Not all racks will work with the Labcon refill system, check your racks for compatibility.

Thin refill inserts

Eclipse uses thin refill inserts made from 80% less material than competing refill systems. And the transfer top keeps your tips from wobbling during refilling. So you don't need to use gloves to refill.



Anti-wobble

Fits new pipet tip racks that include a special anti-wobble feature making tip mounting easy.



Bio-Plastic

Components made from non-petroleum bio-plastic resin.



LIQUID HANDLING

Eclipse™ Pipet Tip Refills

Eclipse refill packaging compared to popular refill systems for 960 tips

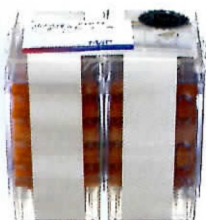


0.45kg

39.8% packaging, 60.2% usable product



95% renewable materials. Compostable tip base from organic non-petroleum resin. Soy based vegetable inks.

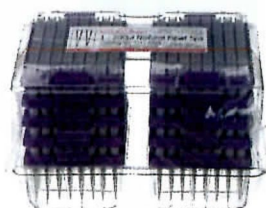


0.84kg

68.1% packaging, 31.9% usable product



0.5% renewable materials,
99.5% non renewable petroleum based resin.



0.65kg

59.0% packaging, 41.0% usable product



0.2% renewable materials,
99.8% non renewable petroleum based resin.



0.51kg

47.3% packaging, 52.7% usable product

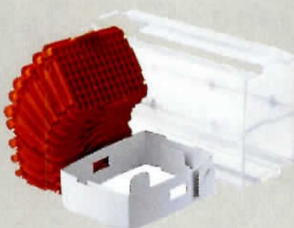


0.5% renewable materials,
99.5% non renewable petroleum based resin.

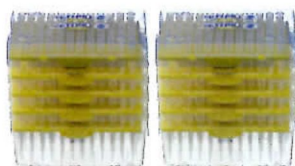


0.73kg

63.4% packaging, 36.6% usable product



0.5% renewable materials,
99.5% non renewable petroleum based resin.



0.56kg

52.0% packaging, 48.0% usable product



100% non renewable petroleum based resin.

* This product is supplied in an extra carton that was not added to packaging totals. 0.27 kg was used as a constant value for the pipet tip portion of these products. Trademarks are of respective suppliers shown. Results are from purchased market samples.



Pagoda® Pipet Tip Refilling System

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 like other refilling systems.

Not only is the Pagoda simple to use, it 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.

- 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 or gloved hands never touch the tips
- RNase, DNase, endotoxin free certified in every lot
- Color coded refill platforms

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



Pagoda for 0.1 - 250µL tips



Pagoda Plus for 0.1 - 1250µL tips



Patented tip platform locking



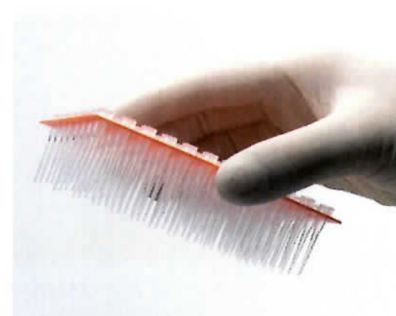
Color coded tip platforms



...up to 5x as much waste



...up to 2x as much waste



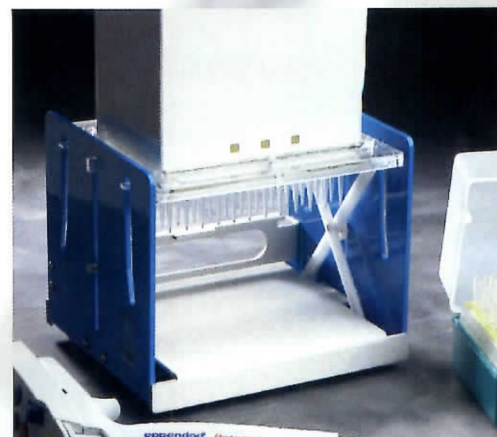
Pagoda Refills have less waste

LIQUID HANDLING

Pagoda® Pipet Tip Refilling System



Pagoda-Plus, available in blue, red or yellow.



Pagoda® Loaders

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

Item	Package	Qty/Pk	Qty/Cs
9015-110	Pagoda Loader, Blue	1	1

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 sold below.

Item	Package	Qty/Pk	Qty/Cs
9018-110-002	Pagoda Loader, Yellow	1	1
9018-110-004	Pagoda Loader, Red	1	1
9018-110-007	Pagoda Loader, Blue	1	1

Assorted Color Refillable Racks

Includes yellow, white, blue, green and purple in the same package.

Item	Package	Qty/Pk	Qty/Cs
1280-969	Racks for 1-250µL Tips	10	100
1279-969	Racks for 1-1250µL Tips	6	48

Refillable Racks for Pagoda®/Pagoda® Plus Loaders

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

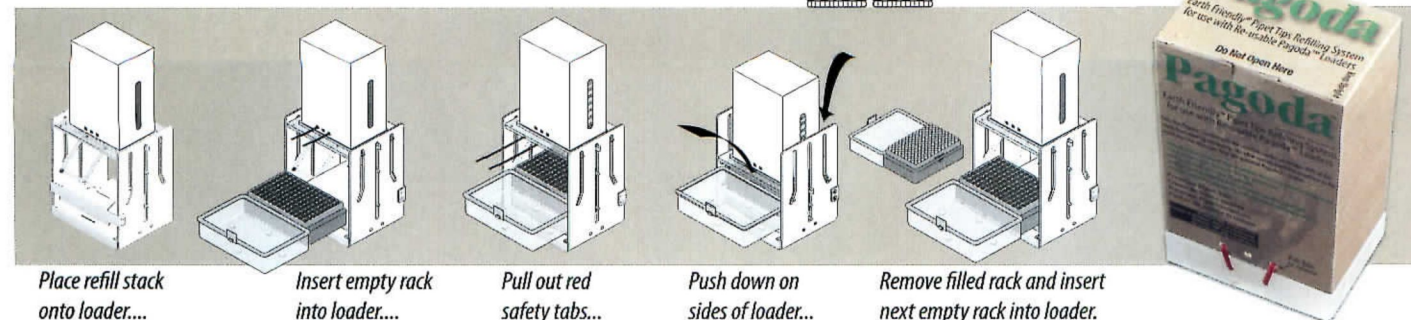
Item	Package	Qty/Pk	Qty/Cs
1289-960	Racks for 10µL Tips	12	120
1280-960	Racks for 1-250µL Tips	10	100
1279-960	Racks for 100-1250µL Tips	6	48



Color coordinate and organize your tips with assorted color refillable racks.



For Pagoda Refills, see pages 9, 15-20.



Place refill stack onto loader....

Insert empty rack into loader....

Pull out red safety tabs...

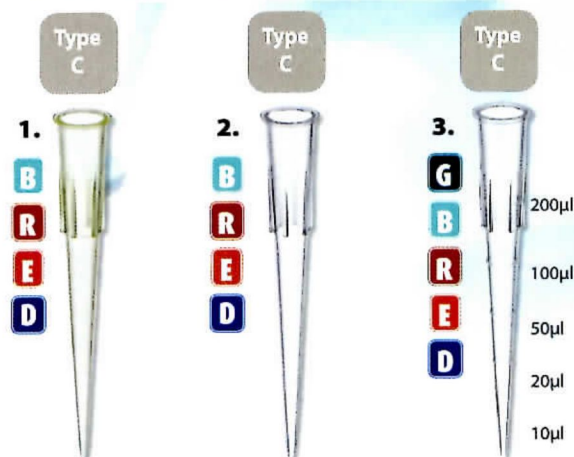
Push down on sides of loader...

Remove filled rack and insert next empty rack into loader.



Eclipse™ 200µL Pipet Tips

TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTOR SEE PAGES 26-32.
SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL SYMBOLS THAT APPEAR NEXT TO TIP PHOTOS.



These tips fit all major pipets and offer the most versatility of any tips. Bevel ends retain less fluid and are a good choice if you do many different procedures. Designed with wide sealing areas to fit even older pipet barrels, these tips are available in every packaging option. Available in yellow or clear polypropylene. Tips and racks are autoclavable.

1. 200µl Bevel Point™ pipet tips, Yellow Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1030-960	96 Rack	960		9,600
1030-965	96 Rack	960	✓	9,600
1030-990	96 Stack Rack	960		9,600
1030-990-028	96 Stack Rack Refill	960		9,600
1030-790	192 Rack	960		9,600
1030-795	192 Rack	960	✓	9,600
1030-700	192 Stack Rack	960		9,600
1030-700-028	192 Stack Rack Refill	960		4,800
1030-800	Loose pack tips	1000		10,000
1030-900	Bulk Tips	30000		30,000
1030-165	Individually Wrapped	200	✓	2,000
1030-290	Pagoda Refill	960		9,600
1030-290-020	Pagoda Express Refill	960		9,600
1030-260	Eclipse Refill	960		9,600
1030-265	Eclipse Refill	960	✓	9,600
1030-250	Eclipse Mini Refill	480		4,800

2. 200µl Bevel Point™ pipet tips, Clear Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1060-960	96 Rack	960		9,600
1060-965	96 Rack	960	✓	9,600
1060-790	192 Rack	960		9,600
1060-795	192 Rack	960	✓	9,600
1060-800	Loose pack tips	1000		10,000
1060-165	Individually Wrapped	200	✓	2,000
1060-260	Eclipse Refill	960		9,600

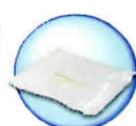
These tips fit all major pipets and have graduations on the outside of the tip to help visually confirm pipette settings. Smooth beveled ends retain less fluid and are a good choice if you do many different procedures. Designed with wide sealing areas to fit even older pipette barrels, these tips are available in every packaging option. Tips and racks are autoclavable.

3. Graduated 200µl Bevel Point™ pipet tips, Clear Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1093-960	96 Rack	960		9,600
1093-965	96 Rack	960	✓	9,600
1093-990	96 Stack Rack	960		9,600
1093-990-028	96 Stack Rack Refill	960		9,600
1093-790	192 Rack	960		9,600
1093-795	192 Rack	960	✓	9,600
1093-700	192 Stack Rack	960		9,600
1093-700-028	192 Stack Rack Refill	960		4,800
1093-800	Loose pack tips	1000		10,000
1093-900	Bulk Tips	30000		30,000
1093-165	Individually Wrapped	200	✓	2,000
1093-290	Pagoda Refill	960		9,600
1093-290-020	Pagoda Express Refill	960		9,600
1093-260	Eclipse Refill	960		9,600
1093-265	Eclipse Refill	960	✓	9,600
1093-250	Eclipse Mini Refill	480		4,800



Packaging Options



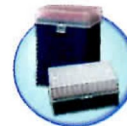
Individually Wrapped



Loose



Bulk



96 Rack & Stack



192 Rack & Stack

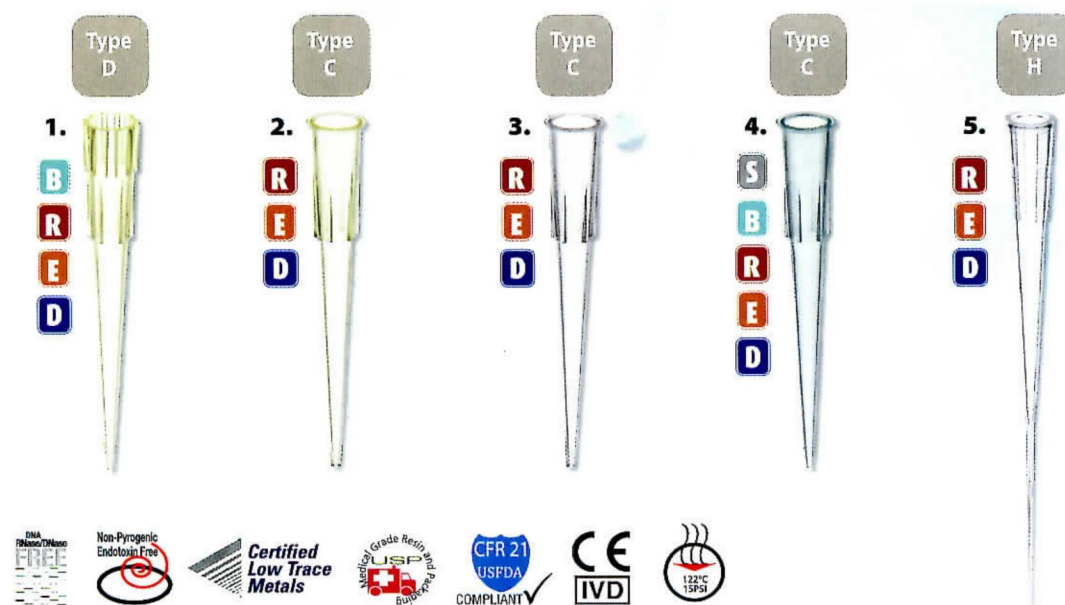


Pagoda Express Refill



Eclipse Refill
Eclipse Mini Refill

Eclipse™ Tips for 100 & 200µL Pipets



Designed to fit Eppendorf, Brinkmann Instruments, and Brand pipettors. Ribbed top ensures solid ejection from these pipettor models. Beveled end retains less fluid and is a good choice if you do many different procedures. Designed with wide sealing areas to fit even older pipettor barrels, these tips are available in every packaging option. Available in yellow polypropylene. Tips and racks are autoclavable.

1. 100µl Bevel Point™ pipet tips for Eppendorf pipettors, Yellow Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1032-960	96 Rack	960		9,600
1032-965	96 Rack	960	✓	9,600
1032-790	192 Rack	960		9,600
1032-795	192 Rack	960	✓	9,600
1032-700	192 Stack Rack	960		9,600
1032-800	Loose pack tips	1000		10,000
1032-290	Pagoda Refill	960		9,600
1032-260	Eclipse Refill	960		9,600

These tips fit all major pipettors. Perfect when a traditional blunt cut end style is desirable. Designed with wide sealing areas to fit even older pipettor barrels, these tips are available in racks and bulk. Yellow or clear polypropylene. Tips and racks are autoclavable.

2. 200µl Traditional Style non-beveled pipet tips, Yellow Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1031-960	96 Rack	960		9,600
1031-965	96 Rack	960	✓	9,600
1031-800	Loose pack tips	1000		10,000

3. 200µl Traditional Style non-beveled pipet tips, Clear Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1071-960	96 Rack	960		9,600
1071-965	96 Rack	960	✓	9,600
1071-800	Loose pack tips	1000		10,000

TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTORS SEE PAGES 26-32
SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL SYMBOLS THAT APPEAR NEXT TO TIP PHOTOS.

Silicone in the polypropylene formulation prelubricates these tips for use with sticky DNA or other viscous materials. Allows you to set your equipment to screen out the presence of silicone. Designed with wide sealing areas to fit even older pipettor barrels. Green polypropylene. Tips and racks are autoclavable.

4. Siliconized 200µl Bevel Point™ pipet tips Ht: 1.955"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1062-960	96 Rack	960		9,600
1062-965	96 Rack	960	✓	9,600
1062-800	Loose pack tips	1000		10,000

These tips fit all major pipettors and include long thin capillary sections for use in nuclease acid sequencing. The thin capillary fits between gel plates to allow you to accurately fill in between the teeth of the gel comb. Available with a 30 mm capillary. Designed with wide sealing areas to fit even older pipettor barrels. In clear polypropylene. Tips and racks are autoclavable.

5. 200µl Capillary Tips for gel-loading, 30 mm Ht: 3.250"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1034-960	96 Rack	576		4,608
1034-965	96 Rack	576	✓	4,608
1034-800	Loose pack tips	1000		10,000

Packaging Options





TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTOR SEE PAGES 26-32.
SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL SYMBOLS THAT APPEAR NEXT TO TIP PHOTOS.

Extra-wide opening allows you to use these tips to pipet macrophages or sticky DNA materials. Bevel helps eliminate carry-over from viscous solutions. Designed with wide sealing areas to fit even older pipettor barrels, these tips are available in every packaging option. Available in clear polypropylene. Tips and racks are autoclavable.

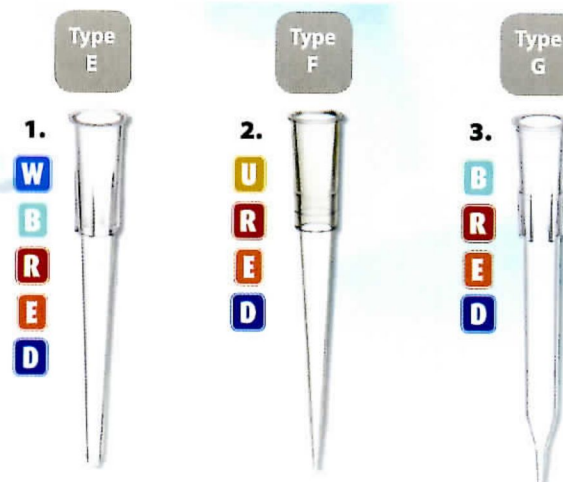
1. Wide Orifice 200µl Bevel Point™ pipet tips	Item	Package	Qty/Pk	Sterile	Qty/Cs
Ht: 1.955"	1026-960	96 Rack	960		9,600
Orifice: 0.057"	1026-965	96 Rack	960	✓	9,600
	1026-800	Loose pack tips	1000		10,000
	1026-290	Pagoda Express	960		9,600
	1026-260	Eclipse Refill	960		9,600

These tips have a thinner wall that is very flexible and a fine non-beveled point. They help you wipe the very last bit of sample from your pipettor. Designed with wide sealing areas to fit most 200 or 250µL pipettor barrels. Clear polypropylene. Tips and racks are autoclavable.

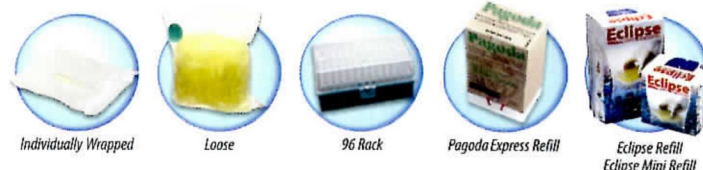
2. 250µl pipet tips with UltraFine™ point	Item	Package	Qty/Pk	Sterile	Qty/Cs
Ht: 2.050"	1099-960	96 Rack	960		9,600
	1099-965	96 Rack	960	✓	9,600
	1099-290-020	Pagoda Express	960		9,600
	1099-800	Loose pack tips	1000		10,000
	1099-165	Individually Wrapped	200	✓	2,000
	1099-260	Eclipse Refill	960		9,600
	1099-265	Eclipse Refill	960	✓	9,600
	1099-250	Eclipse Mini Refill	480		4,800

These tips feature a short fine tip point to help you wipe the very last bit of sample from your tip. Designed with wide sealing areas to fit most 300µl pipettor barrels. Clear polypropylene. Tips and racks are autoclavable.

3. 300µl pipet tips with Bevel Point™	Item	Package	Qty/Pk	Sterile	Qty/Cs
Ht: 2.050"	1039-960	96 Rack	960		9,600
	1039-965	96 Rack	960	✓	9,600
	1039-790	192 Rack	960		9,600
	1039-795	192 Rack	960	✓	9,600
	1039-800	Loose pack tips	1000		10,000
	1039-165	Individually Wrapped	200	✓	2,000



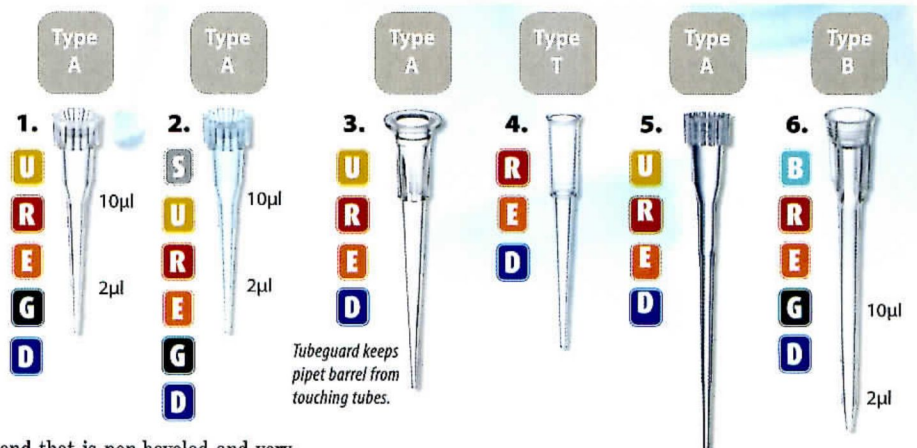
Packaging Options



Eclipse™ Pipet Tips for Micro Volume Pipettors

Our pipet tips for small volumes are molded in precision diamond polished molds from 100% virgin polypropylene. Packaged using automated techniques, every lot of these pipet tips has been tested and found to be free of detectable Rnase/Dnase (Nuclease), Human DNA, and are non-pyrogenic.

TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTORS
SEE PAGES 26-32.
SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL
SYMBOLS THAT APPEAR NEXT TO TIP PHOTOS.



These tips feature a fine thin capillary section at the end that is non-beveled and very flexible. This helps you dispense the last small amount of sample from your tip. Tip also has a chamfered top entry that makes it easier to mount these tips onto different brands of pipets. Polypropylene. Graduated to show 2µl and 10µl. Tips and racks are autoclavable.

1. 10µl pipet tips with UltraFine™ tip Ht: 1.237"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1038-960	96 Rack	1152		11,520
1038-965	96 Rack	1152	✓	11,520
1038-900	Loose pack tips	1000		10,000
1038-900	Bulk Tips	30000		30,000
1038-165	Individually Wrapped	200	✓	2,000
1038-290	Pagoda Refill	1152		11,520
1038-290-020	Pagoda Express Refill	1152		11,520
1038-295-020	Pagoda Express Refill	1152	✓	11,520
1038-260	Eclipse Refill	1248		12,480
1038-250	Eclipse Mini	576		5,760

Silicone in the polypropylene formulation prelubricates these tips for use with sticky DNA or other viscous materials. Allows you to set your equipment to screen out the presence of silicone. These tips have a thin capillary section at the end that is non-beveled and very flexible. This helps you dispense the very last bit of sample from your tip. Includes a chamfered top mounting area that makes it easier to mount these tips onto many different pipettor brands. Graduated to show 2µl and 10µl. Green polypropylene. Tips and racks are autoclavable.

2. Siliconized 10µl pipet tips with UltraFine™ tip Ht: 1.237"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1061-960	96 Rack	1152		11,520
1061-965	96 Rack	1152	✓	11,520
1061-800	Loose pack tips	1000		10,000

These tips are longer than most 10µl tips to allow you to reach down into 0.65 ml tubes. But unlike other extended tips, they are not so long that they introduce inaccuracy. The top mounting port features a solid ring that prevents the pipettor barrel from touching the sides of micro tubes. UltraFine™ point. In clear 100% polypropylene. Tips and racks are autoclavable. Fits most popular 10µl pipettors.

3. 10µl pipet tips with Extended Length and Pipettor protection Ht: 1.500"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1036-960	96 Rack	960		9,600
1036-965	96 Rack	960	✓	9,600
1036-290-020	Pagoda Express Refill	1344		13,440
1036-800	Loose pack tips	1000		10,000
1036-260	Eclipse Refill	1344		13,440
1036-250	Eclipse Mini	480		4,800

These tips are made to fit 16 channel pipettors for filling 384 well plates. Very small but very straight tips are supplied in special heavy racks. With UltraFine™ point. In clear 100% polypropylene. Tips and racks are autoclavable.

4. 1-50µl pipet tips for 16 Channel Finnpiptette Ht: 1.295"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1007-690	384 Rack	3840		19,200
1007-695	384 Rack	3840	✓	19,200



These tips are longer than most 10µl tips to allow you to reach down into 0.65 ml tubes and multi-well plates. UltraFine™ point. These tips feature a fine thin capillary section at the end that is non-beveled and very flexible. This helps you dispense the last small amount of sample from your tip. Tip also has a chamfered top entry that makes it easier to mount these tips onto different brands of pipets. Polypropylene. Tips and racks are autoclavable. In clear 100% polypropylene. Tips and racks are autoclavable. Fits most popular 10µl pipettors.

5. 10µl pipet tips with UltraFine Point™ Ht: 1.875"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1037-960	96 Rack	960		9,600
1037-965	96 Rack	960	✓	9,600
1037-800	Loose pack tips	1000		10,000

These tips have a thin bevel section at the end that is very flexible. This helps you dispense the very last bit of sample from your tip. Clear polypropylene. Tips and racks are autoclavable. Graduated to show 2µl and 10µl.

6. 10µl pipet tips with Bevel Point™ Ht: 1.765"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1033-960	96 Rack	960		9,600
1033-965	96 Rack	960	✓	9,600
1033-800	Loose pack tips	1000		10,000

Packaging Options



Labcon pipet tips for larger volume pipettors are precision molded in diamond polished molds from 100% medical grade polypropylene. These tips have been packaged using automated techniques. Every production lot of these pipet tips has been tested and found to be free of detectable nuclease contamination.

TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTORS
SEE PAGES 26-32.

SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL SYMBOLS
THAT APPEAR NEXT TO TIP PHOTOS.

These tips have a fine beveled dispensing end that fits into 0.65µl micro tubes. Longer than most other 1000µl tips. In blue polypropylene. Tips and racks are autoclavable.

1. 100-1000µl UltraFine™ pipet tips for most 1000µl pipettors Ht:2.990"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1041-960	96 Rack	576		4,608
1041-965	96 Rack	576	✓	4,608
1041-700	96 Stack Rack	480		4,800
1041-800	Loose pack tips	1000		10,000

These tips have a fine end point that fits into 0.65 ml micro tubes. Graduations allow a visual check of pipetting accuracy. Clear polypropylene. Tips and racks are autoclavable.

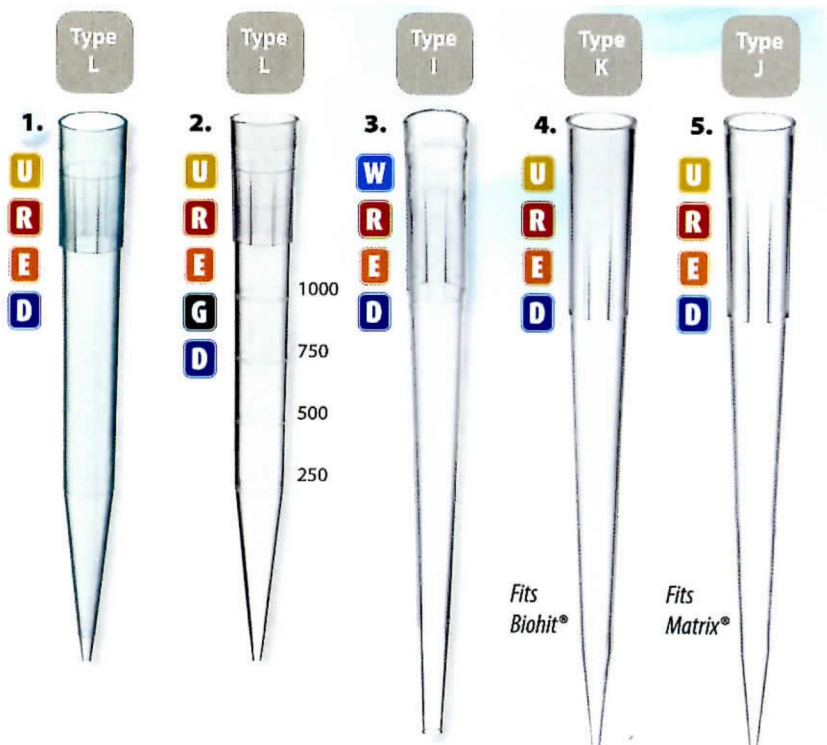
2. Graduated 100-1000µl UltraFine™ pipet tips fit most 1000µl pipettors Ht:2.990"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1046-960	96 Rack	576		4,608
1046-965	96 Rack	576	✓	4,608
1046-700	96 Stack Rack	480		4,800
1046-800	Loose pack tips	1000		10,000

Extra-wide opening allows you to use these tips to pipette macrophages or sticky DNA materials. Designed with flexible tops to fit even older pipettor barrels. Available in clear polypropylene. Tips and racks are autoclavable.

3. 100-1250µl Wide Orifice tips for most 100-1250µl pipettors Ht:3.500" • Orifice is 0.0800"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1042-960	96 Rack	576		4,608
1042-965	96 Rack	576	✓	4,608
1042-290	Pagoda Express	576		5,760
1042-800	Loose pack tips	1000		10,000
1042-260	Eclipse Refill	480		4,800



These tips have a fine end point that fits into small micro tubes and deep well plates. Extra length gives you more head room above the sample so you don't have to worry about contaminating the pipettor barrel. Clear polypropylene. Tips and racks are autoclavable.

4. 100-1200 µl pipet tips with UltraFine point for Biohit® pipettors

Ht: 3.500"
Max Fill: 100-1200 µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1048-960	96 Rack	576		4,608
1048-965	96 Rack	576	✓	4,608
1048-800	Loose pack tips	1000		10,000
1048-165	Individually Wrapped	200	✓	2,000

These tips have a fine end point that fits into small micro tubes and deep well plates. Extra length gives you more head room above the sample so you don't have to worry about contaminating the pipettor barrel. Clear polypropylene. Tips and racks are autoclavable.

5. 100-1250 µl pipet tips with UltraFine point, extra length for Matrix® Impact 2® pipettors

Ht: 3.500"
Max Fill: 100-1250 µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1047-960	96 Rack	576		4,608
1047-965	96 Rack	576	✓	4,608
1047-800	Loose pack tips	1000		10,000

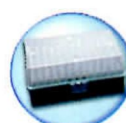
Packaging Options



Individually Wrapped



Loose



96 Rack



Pagoda Express Refill

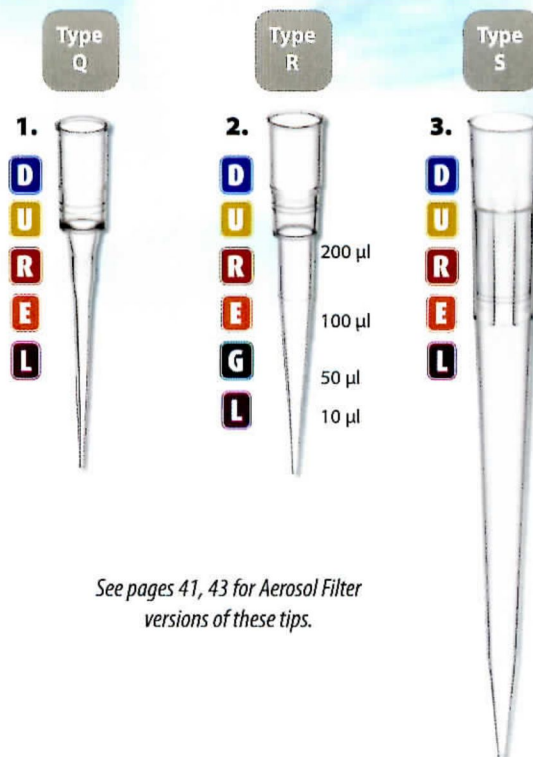


Eclipse Refill



These tips fit the Lite Touch™ pipettors from Rainin®. Made of clear pretested polypropylene resin and lot certified pure and free of human DNA, DNase, RNase, Endotoxins and Trace Metals. These tips bring the higher quality and performance of Labcon tips to ergonomic pipetting.

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See pages 41, 43 for Aerosol Filter versions of these tips.

1. 0.1-20 µl tips for L-2, L-10, L-20, RL-2, RL-10, RL-20 pipettors

Ht: 1.900"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1011-960	96 Rack	960		9,600
1011-965	96 Rack	960	✓	9,600
1011-290	Pagoda Express	1056		10,560
1011-800	Loose pack tips	1000		10,000
1011-260	Eclipse Refill	1056		10,560

2. 0.5-250 µl tips for L-100, L-200, RL-100, RL-200 pipettors

Ht: 2.020"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1018-960	96 Rack	960		9,600
1018-965	96 Rack	960	✓	9,600
1018-290	Pagoda Express	960		9,600
1018-800	Loose pack tips	1000		10,000
1018-260	Eclipse Refill	960		9,600

3. 100-1000 µl tips for L-1000 and RL-1000 pipettors

Ht: 3.500"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1019-960	96 Rack	576		4,608
1019-965	96 Rack	576	✓	4,608
1019-290	Pagoda Express	576		5,760
1019-800	Loose pack tips	1000		10,000
1019-260	Eclipse Refill	480		4,800



Labcon tips for LTS pipettors are made from special flexible resins. For easiest ejection apply less than 3Kg of force when mounting. Do not force tips onto the pipettor barrel with excessive force.



Packaging Options



Loose



96 Rack



Pagoda Express Refill



Eclipse Refill





These tips are designed to fit macro volume pipettors. 100% polypropylene. Autoclavable. In resealable bags and our exclusive composite racks.



Labcon racks for Eclipse Macro tips feature fiber cartons and plastic platforms making them easy to recycle.

TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTORS
SEE PAGES 26-32.
SEE PAGE 6 FOR DEFINITIONS OF ALPHABETICAL
SYMBOLS THAT APPEAR NEXT TO TIP PHOTOS.



1. Clear polypropylene. Graduated. Tips are autoclavable.

1-5mL Graduated Macro pipet tips for Biohit® and Eppendorf® Pipettors. Ht: 4.844"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1027-860	Loose Pack Tips	250		2,500
1027-740	Rack	49		294
1027-745	Rack	49	✓	294

2. Clear polypropylene. Graduated. Tips are autoclavable.

1-5mL Graduated Macro pipet tips for Gilson® and Rainin® Macro Pipettors. Ht: 4.844"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1025-860	Loose Pack Tips	250		2,500
1025-740	Rack	49		294
1025-745	Rack	49	✓	294

3. Designed to work with most popular large volume pipettors. Clear polypropylene. Tips are autoclavable.

1-5mL Macro pipet tips for Macro Pipettors.
Ht: 5.680" Max fill: 1-5 ml

Item	Package	Qty/Pk	Sterile	Qty/Cs
1028-860	Loose Pack Tips	250		2,500
1028-740	Rack	49		294
1028-745	Rack	49	✓	294

4. Clear polypropylene. Tips are autoclavable. 5-10mL pipet tips for Macro Volume Pipettors.

Ht: 6.130" Max fill: 5-10 ml

Item	Package	Qty/Pk	Sterile	Qty/Cs
1029-860	Loose Pack Tips	250		2,500
1029-740	Rack	36		216
1029-745	Rack	36	✓	216



Packaging Option



Loose



Composite Rack

- Certified Protease Free
- Up to 1000% less surface binding than standard polypropylene tips
- For viscous proteins
- Laboratory tested and developed



Our SuperSlik Low Retention tips have a proprietary modified polypropylene surface that limits the adhesion of cells, rDNA, and other viscous materials. Their accuracy and precision is up to 10 times better with viscous samples than standard non-wettable polypropylene. SuperSlik tips are made from our own proprietary resin formulation that uses no additives or coatings that migrate into your samples. Unlike low retention tips from many others, SuperSlik tips use no restricted chemicals and meet RoHS regulations.

These tips were developed in our own laboratory and have found to be ideal for viscous samples. Low binding tips are best suited for pipetting thick or sticky fluids and may not be appropriate for all uses.

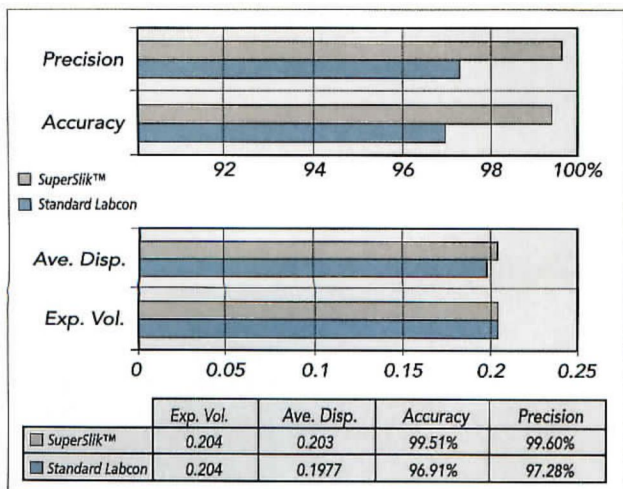


Labcon SuperSlik™ low retention tip



Standard non-wettable polypropylene tip

Actual test shows results of 200 μ l drawn and then dispensed from Labcon SuperSlik™ tip, and standard non-wettable tip



This chart shows actual test results using Labcon pipet tips and standard non-wettable polypropylene tips when used with a viscous dye suspension.



Certified Protease Free



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THAT APPEAR NEXT TO TIP PHOTOS.



Color coordinate and organize
your tips with assorted color refillable racks.

1. SuperSlik™ 10µl Pipet Tips with UltraFine™ Point

Ht: 1.235"
Max Fill: 0.1-10µL
Graduated at 2, 10µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1161-960	96 Rack	1152		11,520
1161-965	96 Rack	1152	✓	11,520
1161-800	Loose pack tips	1000		10,000
1161-260	Eclipse Refill	1248		12,480
1161-250	Eclipse Mini Refill	672		6,720

2. SuperSlik™ 10µl Extended Length with TubeGuard™

Ht: 1.500"
Max Fill: 0.5-10µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1162-960	96 Rack	960		9,600
1162-965	96 Rack	960	✓	9,600
1162-800	Loose pack tips	1000		10,000

3. SuperSlik™ 10µl Extra Long Pipet Tips

Ht: 1.700"
Max Fill: 0.1-10µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1165-960	96 Rack	960		9,600
1165-965	96 Rack	960	✓	9,600
1165-800	Loose pack tips	1000		10,000

4. SuperSlik™ 10µl Pipet Tips with Bevel Point™

Ht: 1.765"
Max Fill: 0.5-10µL
Graduated at 2, 10µL,
Eppendorf®

Item	Package	Qty/Pk	Sterile	Qty/Cs
1163-960	96 Rack	960		9,600
1163-965	96 Rack	960	✓	9,600
1163-800	Loose pack tips	1000		10,000

5. SuperSlik™ 200µl Pipet Tips with Bevel Point™

Ht: 1.955"
Max Fill: 1-200µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1065-960	96 Rack	960		9,600
1065-965	96 Rack	960	✓	9,600
1065-800	Loose pack tips	1000		10,000
1065-260	Eclipse Refill	960		9,600
1065-250	Eclipse Mini Refill	960		9,600

Packaging Options



Refillable Racks for Pipet Tips

Hinged, refillable, autoclavable racks for refills.

Item	Package	Qty/Pk	Qty/Cs
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

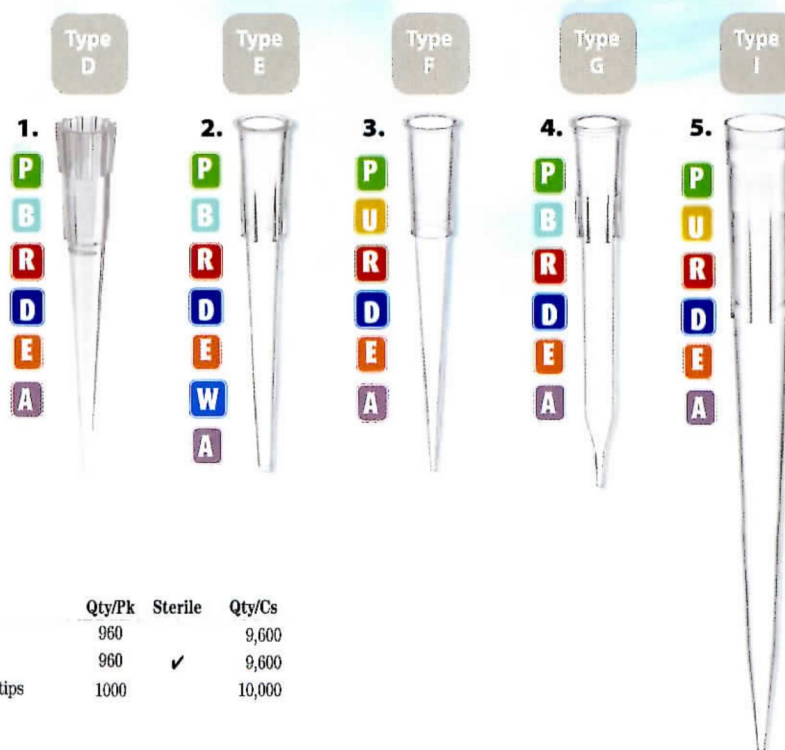
LIQUID HANDLING

SuperSlik™ Protease Free Low Retention Pipet Tips

Certified Protease Free



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THAT APPEAR NEXT TO TIP PHOTOS.



1. SuperSlik™ 100µl Pipet Tips for Eppendorf Pipettors

Ht: 1.955"
Max Fill: 1-100µL

Item	Package	Qty/Pk	Sterile	Qty/Cs
1167-960	96 Rack	960		9,600
1167-965	96 Rack	960	✓	9,600
1167-800	Loose pack tips	1000		10,000

2. SuperSlik™ 250µl Wide Orifice Pipet Tips for Whole Cells

Ht: 1.955"
1-200µL, Wide Orifice
Orifice is 0.057"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1164-960	96 Rack	960		9,600
1164-965	96 Rack	960	✓	9,600
1164-800	Loose pack tips	1000		10,000

3. SuperSlik™ 250µl UltraFine™ Point Pipet Tips

Ht: 1.955"
1-250µL, Fine

Item	Package	Qty/Pk	Sterile	Qty/Cs
1166-960	96 Rack	960		9,600
1166-965	96 Rack	960	✓	9,600
1166-800	Loose pack tips	1000		10,000
1166-260	Eclipse Refill	960		9,600

4. SuperSlik™ 300µl Pipet Tips with Bevel Point™

Ht: 2.050"
1-300µL, Fine

Item	Package	Qty/Pk	Sterile	Qty/Cs
1169-960	96 Rack	960		9,600
1169-965	96 Rack	960	✓	9,600
1169-800	Loose pack tips	1000		10,000

5. SuperSlik™ 100-1250µl Pipet Tips with UltraFine™ Point

Ht: 3.500"
100-1250µL, Fine

Item	Package	Qty/Pk	Sterile	Qty/Cs
1168-960	96 Rack	576		4,608
1168-965	96 Rack	576	✓	4,608
1168-800	Loose pack tips	1000		10,000
1168-260	Eclipse Refill	480		4,800

Packaging Options



Loose



96 Rack



Pagoda Express Refill



Eclipse Refill





Pipet Tips Compatibility Chart — BIOHIT

Popular Pipettor Brands



		BIOHIT							
		eLine		Picus		ePet		mLine	
		<i>Channels</i>		<i>Channels</i>		<i>Channels</i>		<i>Channels</i>	
		1	8,12	1	8,12	1	8,12	1	8,12
Page/Tip Type		Pipet Tips							
18,23	A	0.2-10	0.2-10	0.2-10	0.2-10	0.2-10	0.2-10	0.1-3, 0.5-10	0.5-10
9	U	0.2-10	0.2-10	0.2-10	0.2-10			0.5-10	0.5-10
9,15,16,23	C	5-120	5-120	5-120	5-120	5-100	5-100	2-20, 10-100, 20-200	5-100, 20-200
16,24	D							10-100, 20-200	
17,24	E	5-120	5-120	5-120	5-120		25-250	20-200	
9,17,24	G	10-300	5-120	10-300	5-120, 10-300		25-250	20-200	30-300
16	H	5-120	5-120	5-120	5-120	5-100		10-100, 20-200	5-100
19	L	50-1000		50-1000				100-1000	
9,19,24	I	50-1000		50-1000					
19	K		50-1200		50-1200		50-1200		
21	W							500-5000	
21	X							500-5000	
21	Y							1000-10000	



		BIOHIT (Proline)					
		Proline Electronic		Proline		Proline Plus	
		<i>Channels</i>		<i>Channels</i>		<i>Channels</i>	
		1	8,12	1	4, 8,12	1	8, 12
Page/Tip Type		Pipet Tips					
18,23	A	0.2-10	0.2-10	0.1-2.5, 0.5-10	0.5-10	0.1-3, 0.5-10	0.5-10
9	U					0.1-3, 0.5-10	0.5-10
9,15,16,23	C	5-100	5-100	2-20, 5-50, 10-100	5-50	2-20, 10-100, 20-200	10-100, 20-200
16,24	D			10-100, 20-200		10-100, 20-200	
17,24	E	5-100	5-100	20-200		20-200	
17,24	F			20-200			5-250
9,17,24	G	25-250	10-250	50-200, 50-250	50-250, 50-300	20-200, 20-300	50-250, 30-300
16	H	5-100		5-50, 50-200		2-20, 10-100	10-100
19	L	50-1000				100-1000	
9,19,24	I	50-1000		100-1000		100-1000	
19	K	50-1200					
21	W	100-5000		100-5000			
21	X					500-5000	
21	Y					1000-10000	



Pipet Tips Compatibility Chart — BRAND, THERMO

Popular Pipettor Brands



		B R A N D					
		Transferpette		Electronic		Transferpette 5	
		Channels		Channels		Channels	
		1	8,12	1	8,12	1	8,12
Page/Tip Type		Pipet Tips					
18,23	A	0.1-1, 0.1-10	0.5-10		0.5-10	0.1-1, 0.5-10	0.5-10
18,23	B	0.5-10, 2-20	2-20	0.5-10, 2-20		2-20	
9,15,16,23	C	2-20, 5-50, 10-100, 20-200	2-20, 2.5-25, 5-50, 10-100, 20-200	20-200	5-100, 10-200	10-100, 20-200	5-50, 10-100, 20-200
16,24	D			20-200	5-100, 10-200	10-100, 20-200	
17,24	E	20-200	20-200	20-200		20-200	20-200
17,24	F	20-200, 25-250					
9,17,24	G	20-200, 25-250	30-300		15-300		
16	H	5-50, 10-100, 20-200	5-50, 10-100, 20-200	20-200	5-100, 10-200	20-200	10-100, 20-200
19	L	100-1000		100-1000		100-1000	100-1000
9,19,24	I	100-1000				100-1000	100-1000



		T H E R M O / F i n n p i p e t t e						
		Digital, F1, F2			Focus		Novus	
		Channels			Channels		Channels	
		1	8, 12	16	1	8,12	1	8,12 16
Page/Tip Type		Pipet Tips						
18,23	A	0.2-2, 0.5-10	0.5-10*		0.3-3, 0.5-5, 1-10	1-10	1-10	1-10
9,15,16,23	C	0.5-10, 2-20, 5-50, 10-100, 20-200	5-50, 1-10**		1-10, 3-30, 5-50, 10-100	5-50	1-10, 5-50, 10-100	5-50
17,24	E	2-20, 5-50, 10-100, 20-200	5-50					
9,17,24	G		50-300		30-300	30-300	30-300	30-300
16	H	2-20, 5-50, 10-100, 20-200	5-50		1-10, 3-30, 5-50, 10-100		10-100	5-50
19	L				100-1000		100-1000	
9,19,24	I	100-1000, 200-1000			100-1000		100-1000	
18	T			1-50				1-50

* for digital only

** for F1 only

Pipet Tips Compatibility Chart — EPPENDORF, GILSON

Popular Pipettor Brands



		E P P E N D O R F					
		Electronic	Reference	Research Pro		Research & Research Plus	
		Channels	Channels	Channels		Channels	
		1	1	1	8,12	1	8,12
Page/Tip Type		Pipet Tips					
18,23	A	0.5-10	0.1-2.5, 0.5-10	0.5-10	0.5-10	0.1-2.5*, 0.5-10	0.5-10
18,23	B	0.5-20	2-20	0.5-10	0.5-10		
9,15,16,23	C	5-100, 20-200	2-20, 10-100, 50-200	5-100	5-100	2-20, 10-100, 20-200	10-100
16,24	D	5-100, 20-200	2-20, 10-100, 50-200	5-100	5-100	2-20, 10-100, 20-200	10-100
17,24	E	5-100, 20-200	2-20, 10-100, 50-200	5-100	5-100	2-20, 10-100, 20-200	10-100
17,24	F	20-200				10-100, 20-200	
9,17,24	G	20-200	50-200	20-300	20-300		30-300
16	H	5-100, 20-200	2-20, 10-100, 5-200	5-100	5-100	2-20, 10-100, 20-200	10-100
19	L		100-1000	50-1000		100-1000	
9,19,24	I	50-1000	100-1000	50-1000, 50-1200		100-1000	
21	W			100-5000		500-5000	

* For Research Only



µl volume
ranges shown
µl

G I L S O N

Pipetman Classic, G, L

Pipetman Ultra

Neo

Concept

Pipetman M

Channels

Channels

Channels

Channels

Channels

1

8

1

8, 12

1

1

8, 12

1

8

Page/Tip Type

Pipet Tips

18,23	A	0.2-2, 1-10		0.2-2, 1-10		0.2-2, 1-10	0.5-10	1-10	0.5-10	
9	U	0.2-2, 1-10		0.2-2, 1-10		0.2-2, 1-10				
9,15,16,23	C	2-20, 10-200, 20-200, 50-200	1-20, 20-200	2-20, 20-100, 20-200	1-20	2-20, 20-100, 20-200	5-100	10-100	2-20	1-20, 20-200
17,24	E	50-200		50-200						
9,17,24	G	50-200		20-200	20-300		20-300	30-300		
16	H	10-100, 20-100, 5-200, 50-200		20-100, 20-200		20-200	5-100	10-100		
19	L	20-1000		20-1000		100-1000			100-1000	
9,19,24	I	20-1000		20-1000		100-1000			100-1000	
21	O	1000-5000								
21	X	1000-5000								
21	Y	1000-10000		1000-10000						





		R A I N I N						
		E-Man Hybrid	EDP3 Plus	EDP3 with LTS		E4 XL5		EDP1
		Channels	Channels	Channels				Channels
		1	1	1	8, 12, 16, 24	8	12	1
Page/Tip Type		Pipet Tips						
18,23	A		0.5-10					0.5-10
20	Q	0.1-2, 0.5-10, 2-20		0.5-10, 2-20	0.5-10	0.5-10, 2-20	0.5-10	
9,15,16,23	C		2-20, 10-100, 20-200					2-20, 10-100, 20-200
17,24	E		20-200					20-200
20	R	10-100, 20-200		5-50, 20-200	5-50, 20-200	5-50, 20-200	5-50, 20-200	
17,24	F		20-200					
9,17,24	G		20-200, 20-300					20-300
16	H		2-20, 10-100, 20-200					2-20, 10-100, 20-200
19	L		100-1000					100-1000
9,19,24	I		100-1000					100-1000
20	S	100-1000		100-1000	100-1000	100-1000	100-1000	



		R A I N I N					
		EDP1 with LTS		Pipet Lite SL	Pipet Lite/LTS	Pipet Plus/LTS	Classic
		Channels		Channels	Channels	Channels	Channels
		1	8, 12, 16, 24	1	1, 8, 12	1, 8, 12	1
Page/Tip Type		Pipet Tips					
18,23	A			0.1-2, 0.5-10			0.1-2, 0.5-10
20	Q	0.5-10, 2-20	1-10, 2-20		0.1-2, 0.5-10, 2-20	0.1-2, 0.5-10, 2-20	
9,15,16,23	C			2-20, 10-100, 20-200			2-20, 10-100, 20-200
17,24	E			20-200			20-200
20	R	10-100, 20-200	5-50, 20-200		10-100, 20-200	10-100, 20-200	
17,24	F			20-200			
16	H			2-20, 10-100, 20-200			10-100, 20-200
19	L			100-1000			100-1000
9,19,24	I			100-1000			100-1000
21	O						1000-5000
20	S	100-1000			100-1000	100-1000	
21	X						1000-5000
21	Y						5000-10000

Other Pipettor Brands



ACCUMAX		
Smart, Accumax Pro, A, VA-FA		
Channels		
1, 8, 12		
Page/Tip Type	Pipet Tips	
18,23	A	0.1-2.5, 0.5-10
9,15,16,23	C	2-20, 5-50, 10-100, 20-200, 50-200
17,24	E	20-200, 50-200
17,24	F	20-200
16	H	20-200

C A P P			
Aero			
Channels			
1		8,12	
Page/Tip Type		Pipet Tips	
18,23	A	0.5-10	0.5-10
18,23	B	0.5-10	
9,15,16,23	C	2-20, 5-50, 10-100, 20-200	5-50, 20-200
17,24	E	20-200	20-200
9,17,24	G	50-300	30-300
16	H	20-200	20-200
19	L	100-1000	
9,19,24	I	100-1000	



DRAGONLAB		
TopPette, MicroPette, MicroPette Plus		
Channels		
1, 8, 12		
Page/Tip Type	Pipet Tips	
18,23	A	0.1-2.5, 0.5-10
9,15,16,23	C	2-20, 5-50, 10-100, 20-200, 50-200
17,24	E	20-200, 50-200
17,24	F	20-200
16	H	20-200

NICHIRYO

EX, EX Plus

Le

Nichipet 7000

Channels

Channels

Channels

1

1

8, 12

Page/Tip Type

Pipet Tips

18,23	A	0.2-2, 0.5-10	0.5-10	0.5-10
18,23	B	0.5-10		
9,15,16,23	C	2-20, 10-100, 20-200	2-20, 10-100, 20-200	5-50, 40-200
17,24	E	20-200	20-200	
17,24	F	20-200	20-200	
9,17,24	G	20-200	20-200	40-200, 50-300
16	H	10-100, 20-200	10-100, 20-200	5-50, 40-200
19	L	100-1000	100-1000	
9,19,24	I	100-1000	100-1000	
21	X	1000-5000		

µl volume
ranges shown
µl

CORNING

8/12-Pette

Octapette

Lambda

Channels

Channels

Channels

8, 12

8

1

Page/Tip Type

Pipet Tips

18,23	A			0.1-2.5, 0.5-10
9,15,16,23	C	20-200	25,50,100,200	2-20, 10-100, 20-200
17,24	E	20-200	25,50,100,200	2-20, 10-100, 20-200
17,24	F	20-200		10-100, 20-200
9,17,24	G	20-200		
16	H	20-200		2-20, 10-100, 20-200
9,19,24	I			100-1000

Other Pipettor Brands



HAMILTON

		Softgrip		Softouch Electronic	
		Channels		Channels	
		1	8,12	1	8,12
Page/Tip Type		Pipet Tips			
18,23	A	0.2-2, 1-10		0.2-10	0.2-10
9,15,16,23	C	2.5-25, 10-100	5-50	5-100	
17,24	E	10-100		5-100	
17,24	F	10-100			
9,17,24	G		30-300		25-250
16	H	2.5-25, 10-100	5-50	5-100	
19	L	100-1000		50-1000	
9,19,24	I	100-1000		50-1000	



KENDALL

Oxford Benchmate

Channels

1

Page/Tip Type		Pipet Tips
18,23	A	0.1-2, 0.5-10
18,23	B	0.5-10
9,15,16,23	C	10-100, 20-200, 40-200
17,24	E	20-200
17,24	F	20-200
9,17,24	G	20-200, 40-200
16	H	10-100, 20-200
9,19,24	I	200-1000
21	O	1000-5000



METTLER

Multimate

Channels

1

Page/Tip Type		Pipet Tips
18,23	A	0.1-2.5, 0.5-10
9,15,16,23	C	2-20, 10-100, 20-200
16,24	D	2-20, 10-100, 20-200
17,24	E	2-20, 10-100, 20-200
17,24	F	10-100, 20-200
16	H	2-20, 10-100, 20-200
9,19,24	I	100-1000



LABNET

		Excel		Labpette Discovery		Discovery Pro
		Channels		Channels		Channels
		1	8, 12	1	8, 12	1, 8, 12
Page/Tip Type		Pipet Tips				
18,23	A	0.5-10	0.5-10	0.2-2, 0.5-10	1-10	0.2-2, 0.5-10
9	U	2-20	2-20			
9,15,16,23	C	10-200	10-200	2-20, 5-50, 10-100, 20-200	5-50, 20-200	2-20, 20-200
17,24	E	10-200	10-200			
9,17,24	G			50-250	50-300	
16	H	10-200	10-200	10-100, 20-200	20-200	
19	L			100-1000		100-1000
9,19,24	I	100-1200	100-1200	100-1000		100-1000
21	O			1000-5000		
21	Y			1000-10000		



THERMO/Matrix

Impact 2

Channels

1, 8

Shorty

Channels

1

Page/Tip Type		Pipet Tips	
9	U	12.5, 30**	12.5, 30**
9,15,16,23	C	2-125, 5-250	2-125, 5-250
17,24	E	5-250	5-250
17,24	F	5-250	5-250
9,17,24	G	5-250	5-250
16	H	2-125	2-125
19	J	15-1250	15-1250

** Not for 16 Channel Equalizer.

Pipet Tips Compatibility Chart — SOCOREX, POULTEN, VISTALAB

Other Pipettor Brands





S O C O R E X

Acura 825, Manual XS		Acura 835	Calibra 822	Calibra 825	Electro 925	Electro 955
Channels		Channels	Channels	Channels	Channels	Channels
1	8, 12	1	1	8, 12	1	8, 12

Page/Tip Type

Pipet Tips

18,23	A	0.1-2, 0.5-10				0.5-10	0.5-10
18,23	B		0.5-10		0.2-2, 1-10	1-10	
9,15,16,23	C	1-10, 2-20, 5-50, 10-100, 20-200	5-50, 20-200		1-10, 2-20, 5-50, 10-100, 20-200	10-100, 20-200	2.5-50, 10-100
17,24	E	20-200			20-200	20-200	10-200
17,24	F	20-200	20-200				
9,17,24	G		40-350		20-200	20-200	
16	H	20-200	20-200		20-200	20-200	2.5-50
19	L	100-1000			100-1000		
9,19,24	I	100-1000			100-1000		
21	W			500-5000			
21	X			500-5000			



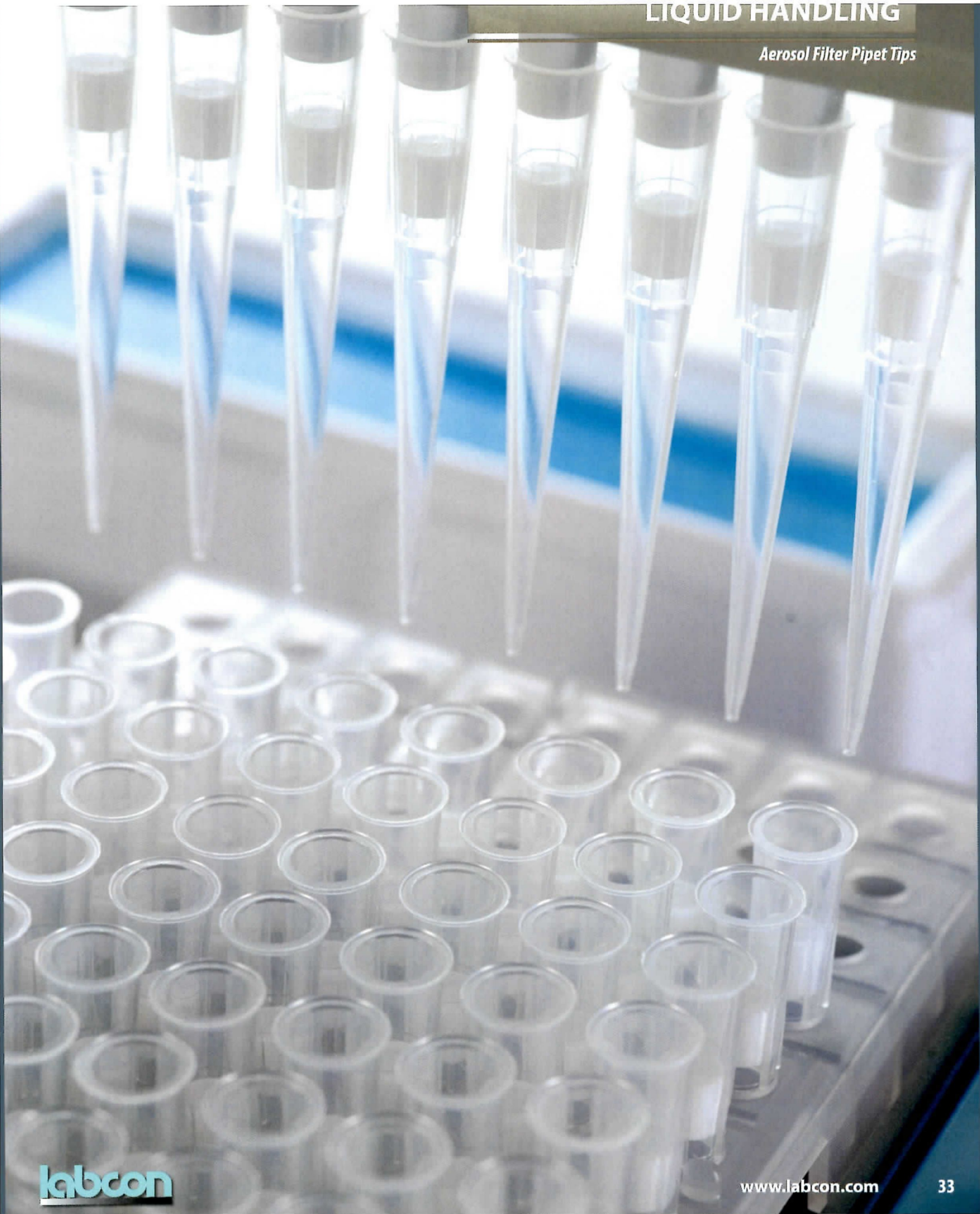
P O U L T E N		
Volac Ultra Variable		
Channels		
1		
Page/Tip Type		Pipet Tips
18,23	B	1-10
9,15,16,23	C	5-50, 20-100, 20-200
17,24	E	20-200
17,24	F	20-200
16	H	20-200
9,19,24	I	100-1000



	V I S T A L A B				
	MLA		Ovation	Ovation Electronic	
	Channels		Channels	Channels	
	1		1	1	8, 12
Page/Tip Type		Pipet Tips			
18,23	A		1-10	0.5-20	0.5-20
9	U		0.2-2, 1-10	0.2-2	0.2-2
9,15,16,23	C	10-50, 50-200	10-100, 20-200	2-125, 5-250	2-125, 5-250
17,24	E	10-50, 50-200	20-200	2-125, 5-250	2-125, 5-250
17,24	F	50-200			
9,17,24	G		20-200	5-250	5-250
16	H	10-50, 50-200	10-100, 20-200	2-125	2-125
19	L		100-1000, 201-1000*		
9,19,24	I		100-1000*	25-1250*	
21	O	1000-5000		100-5000	
21	W	1000-5000		100-5000	

* requires Type A Nozzle Vistalab #9057-1016 100-1000µl, 201-1000µl



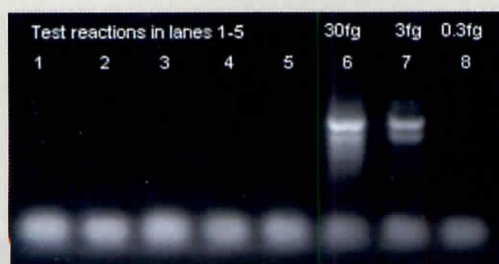




Zap™ Slik™ Low Retention Aerosol Filter Pipet tips from Labcon offer you a high value option to protect your pipettors in all liquid handling applications. These tips include an endotoxin free 10 micron patented porous hydrophobic filter that is proven to block aerosol contamination**. We also use our exclusive formulation of resin that is far more hydrophobic than standard resins to help ensure you get every last bit of sample from your tips. And unlike other low retention tips these are RoHS compliant so you don't have to worry about additives migrating into your sample.

Use these tips in your lab work with confidence. All Labcon Zap™ Slik™ tips are manufactured robotically to eliminate contamination. Every lot of tips produced is tested on the pipets they are intended for, ensuring they fit and perform correctly. The resin used for tips is pre-tested before use to determine its extractables profile. Resins that have high levels of residue in the 240 to 310 nm range are excluded from use. We also certify these tips are free of Dihemda and Oleamide. And as all Labcon tips these are free of Bisphenol A. Aerosol filters are tested for endotoxin contaminants using a Chromogenic Assay U.S.P. testing method. All lots 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 and a test for Adenosine Triphosphate (ATP) is completed for each lot.

Proven aerosol blocking**



This photo shows the results of the actual test to determine if aerosol carryover can be stopped using Zap Slik Low Retention Aerosol 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/μL in lane 6, 3fg/μL in lane 7, and 0.3fg/μL 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.

Supplied in sturdy reusable polypropylene racks that have been sterilized using a validated ISO sterilization process.

- For PCR*, DNA manipulation, P³²
- Autoclavable
- Sample can be completely recovered without cutting into tip
- Prevents pipettor contamination from aerosols or fluids
- Up to 10 times less fluid retention than standard tips
- Tips for the pipettors you use
- Lot certified purity



Seven features you get only from Zap™ Slik™

- 1 Each style of Zap Slik tips is designed from the beginning to fit precisely the range of pipettors listed in the fit charts. We carefully inspect the fitting with the actual pipettors, not just with measuring gauges. This means you won't have to worry about leaking tips and you don't have to use extra force to mount these tips.
- 2 The quality of the resins used to make Labcon tips is unsurpassed by any other pipet tips available anywhere. We only use research grade resins from consistent sources that have been pre-tested to ensure they do not introduce contaminants into your samples. So you won't have to be concerned there could be unknown substances added to your work.
- 3 Each rack is labeled with the effective volume range of the tip, the lot number, product number, and an expiration date. So it's easy to keep your work organized and ensure your supplies are traceable and sterile.
- 4 Every lot of tips is tested and certified to be free of RNase/DNase contamination, Human DNA, ATP, and unlike tips from other suppliers, Labcon tips are tested and certified non-pyrogenic. This

non-pyrogenic certification also includes the filter, so your sample can even contact the filter and you won't need to worry that your sample is contaminated.

- 5 Zap Slik tips feature a pure 10µm pore size filter without any dyes or additives. The pores on this filter are 100% smaller than those in other aerosol tip brands. A smaller pore guarantees that your pipettor barrel will be kept clean of DNA, radionucleotides, and other contaminants. And this filter works to block fluids without any contaminants in the filter so you never have to worry that your work will be spoiled if your sample contacts the filter.

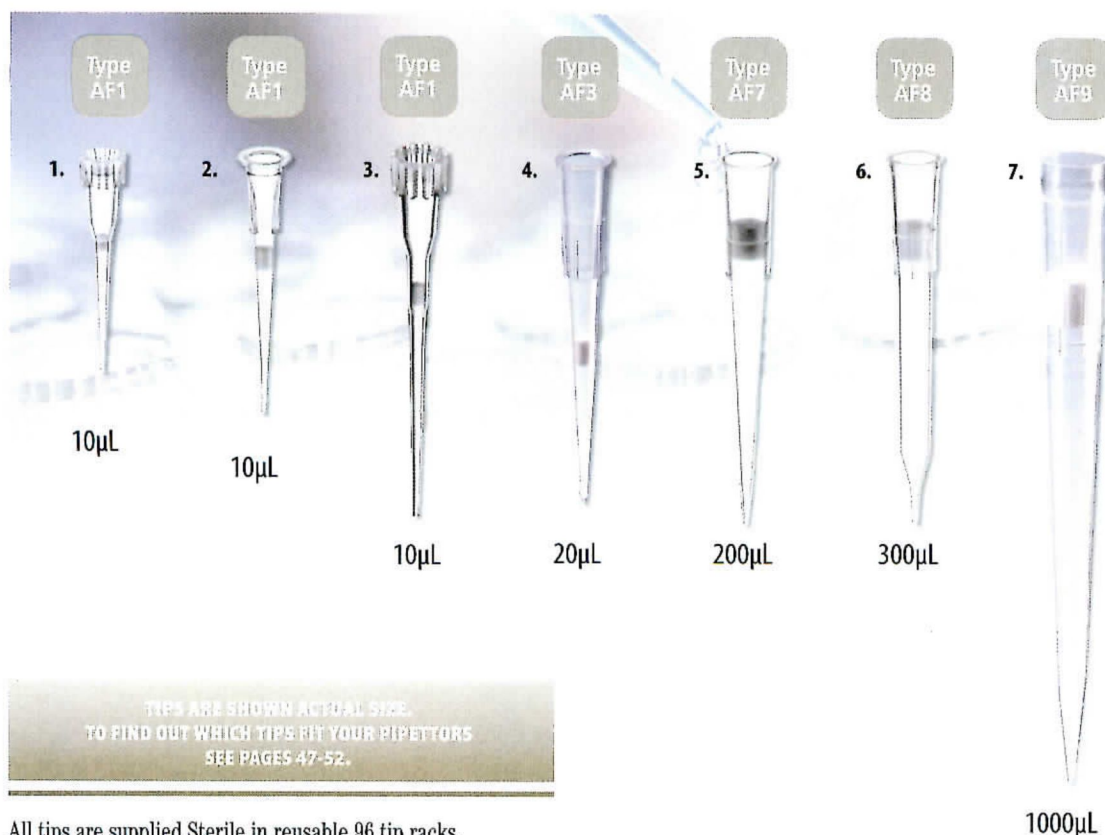
- 6 With their dense filter these tips are autoclavable to 122°C for 15 minutes. So if you don't use the entire box of tips you can sterilize them again and the filters will not warp or seal like other aerosol tips.



Zap Slik tips are packaged in racks designed to be refilled easily with our Eclipse refills. This lets you extend your investment and helps to save resources.

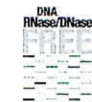
LIQUID HANDLING

Zap™ Slik™ Low Retention Aerosol Filter Pipet Tips



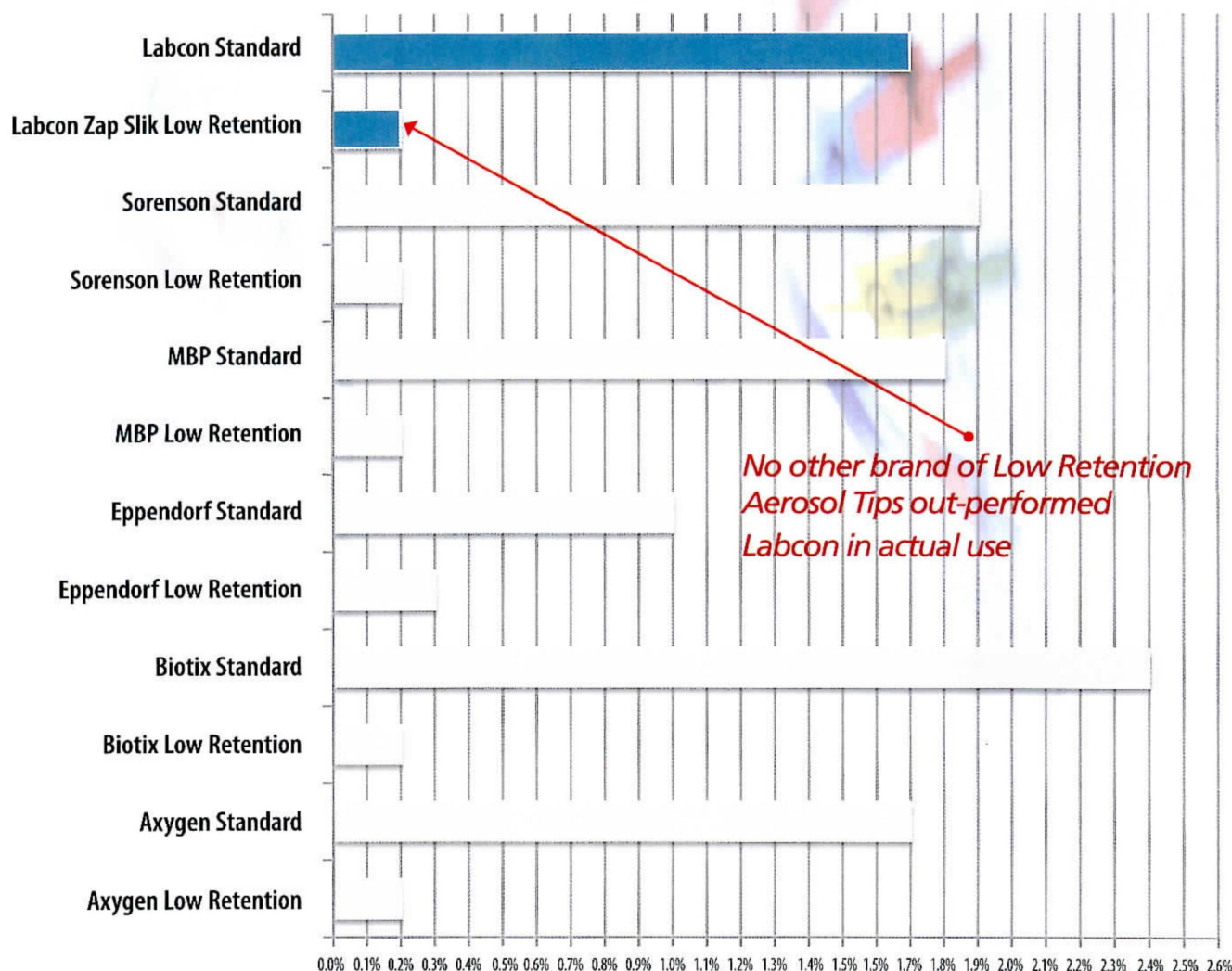
All tips are supplied Sterile in reusable 96 tip racks.
Tips and racks are autoclavable to 122°C for maximum 15 min.
Dry cycle is not recommended.

1. 10 µl ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1171-965	96 Rack	1152	✓	11,520
2. 10 µl Extended Length with TubeGuard™ ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1172-965	96 Rack	960	✓	9,600
3. 10 µl Extra Long ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1173-965	96 Rack	960	✓	9,600
4. 20 µl ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1175-965	96 Rack	960	✓	9,600
5. 200 µl ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1179-965	96 Rack	960	✓	9,600
6. 300 µl ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1178-965	96 Rack	960	✓	9,600
7. 1000 µl ZapSlik Tip	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1177-965	96 Rack	576	✓	4,608



Unsurpassed Low Retention Performance

Percent of Fluid Retention



Comparison study of Low Retention pipet tip performance

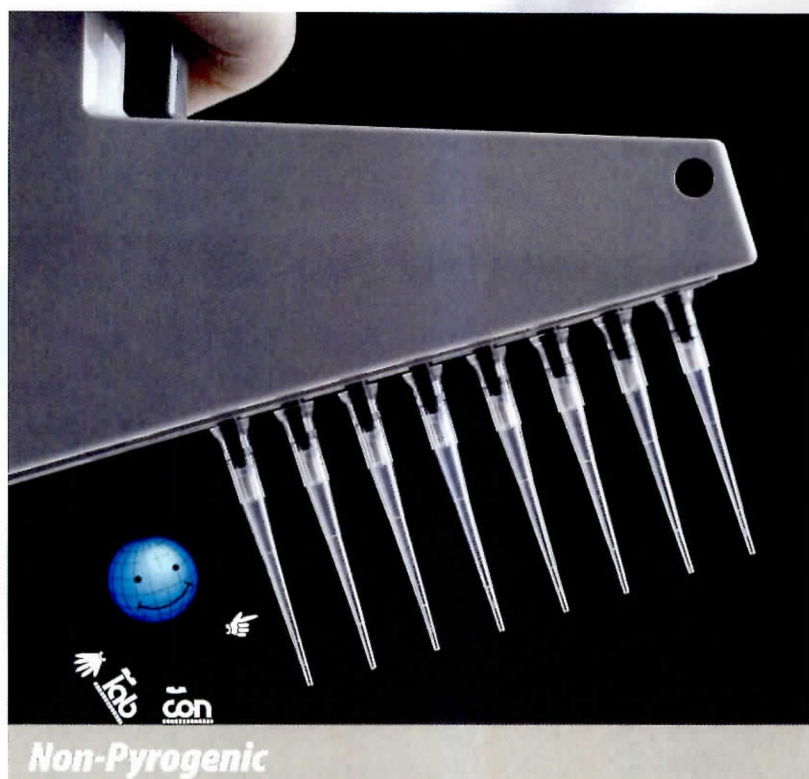
The chart above summarizes data from a study to determine the amount of liquid retention for commercially available pipet tips that are marketed with low fluid retention properties compared with standard polypropylene pipet tips. The retention assay was performed with green dye, depending on the appropriate volume for the tip. Undiluted dye was drawn into the tip, then expelled at a constant rate into a waste reservoir. Deionized water from a tared microcentrifuge tube was then drawn into the tip, and this water plus any retained dye was expelled back into the tared microcentrifuge tube. One observation and two measurements were taken to calculate the amount of dye that had been retained in the tip. First, the extent of dye retention was observed. All low retention tips showing extremely low amounts of retention

and standard tips were observed to have extensive coating of the tip interior when the dye was first expelled. The first measurement of dye expelled with a water rinse of the tip was a spectrophotometer assay in which the extent of green color (spectrophotometer set to wavelength 525 nm) was measured via changes in the absorbance value of water vs. water plus dye. The second measurement took the mass of the tared centrifuge before and after water plus dye was expelled into the tube.†

† These results are from purchased market samples, the same product you would receive. Full study results are on file. Trademarks listed are the property of the suppliers or manufacturers noted and include Corning Life Science (Axygen, Sorenson), Biotix Holdings, Eppendorf, and Thermo Scientific (MBP).

Zap™ Aerosol Filter Pipet Tips

- For PCR*, DNA manipulation, P³²
- Autoclavable
- Sample can be completely recovered without cutting into tip
- Prevents pipettor contamination from aerosols or fluid spray
- Tips for the pipettors you use
- Lot by Lot certified purity

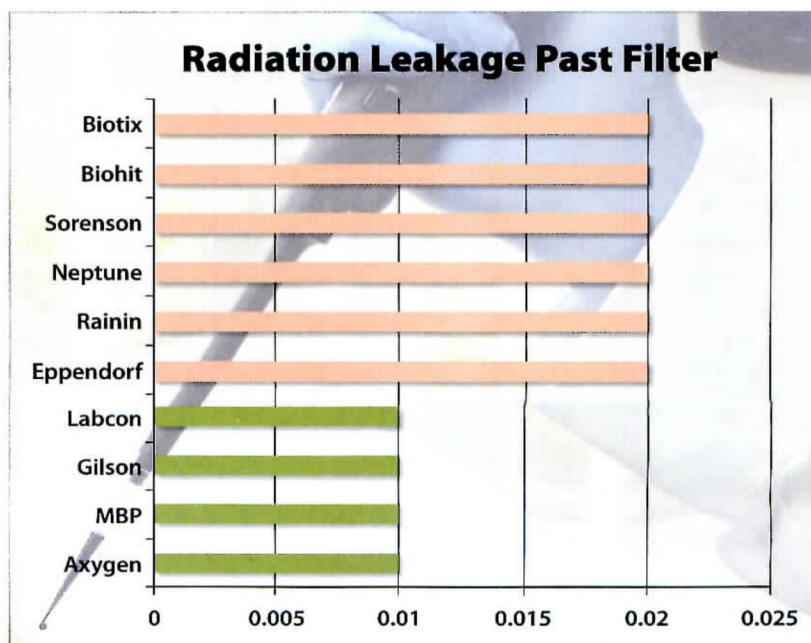


ZAP™ Aerosol Filter Tips provide you with complete protection from sample carry over. They incorporate a robotically inserted patented filter that is made from high molecular weight polyethylene. The filters allow the pipettor to draw by venting through a tortuous sponge-like pathway. The pores in this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

Proven Performance in Stopping Pipettor Contamination

The data shown at right summarizes the results of an aggressive independent study that looked at the ability of our aerosol filter tips to prevent contamination from pipetting radionucleotides.

Each filter tip sample drew in and expelled an aqueous solution containing 0.2µCi of radiolabeled 2'-Deoxycytidine 5'-triphosphate, tetraammonium salt [5-3H] to the maximum allowable volume of the tip five times. Water was added to the top of each filter tip and allowed to stand for fifteen seconds. One hundred microliters of the water sample was then transferred to 4.9ml of scintillation fluid and measured immediately.



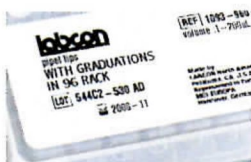
* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.



The ZAP Advantage



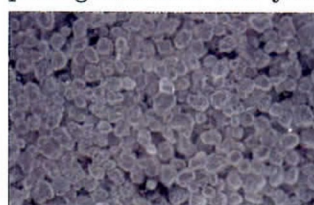
1. Each style of these tips is designed from the beginning to fit precisely the range of pipettors listed in the fit charts. We carefully inspect the fit with the actual pipettors, not just with measuring gauges. This means you will not have to worry about leaking tips and you don't have to use extra force to mount tips.
2. The quality of the resins we use to make tips is unsurpassed by any other pipet tips available anywhere. We only use virgin research grade resins from consistent sources that have been pre-tested to ensure they do not introduce contaminants into your samples. So you won't have to be concerned there could be unknown substances added to your work.
3. Each rack is labeled with the effective volume range of the tip, the lot number, and product number. So it's easy to keep your work organized and ensure your supplies are traceable.
4. Every lot of tips is tested and is certified to be free of RNase/DNase contamination, Human DNA, ATP, and unlike tips from other suppliers, our tips are tested and certified non-pyrogenic. This non-pyrogenic certification also includes the filter, so your sample can even contact the filter without being contaminated.



5. You can choose from 28 styles of tips to fit all major brands of pipettors in the world. So you will always have a ZAP Tip option for nearly any use.



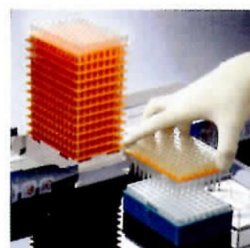
6. ZAP tips feature a unique 10 micron pore size filter. The pores on this filter are 100% smaller than those in most other aerosol tips. A smaller pore guarantees that your pipettor barrel will be kept clean of DNA, Radionucleotides, and other contaminants.



And this filter works to block fluids without any contaminants in the filter so you never

have to worry that your work will be spoiled if your sample contacts the filter.

7. ZAP tips with their dense filter are autoclavable to 121° Celsius for 20 minutes. So if you don't use the entire box of tips you can sterilize them again and the filters will not warp like other filters.



8. ZAP tips are packaged in racks designed to be refilled easily with our Eclipse refills. So when you have used your ZAP tips keep the boxes to refill. This lets you extend your investment and helps to save resources.

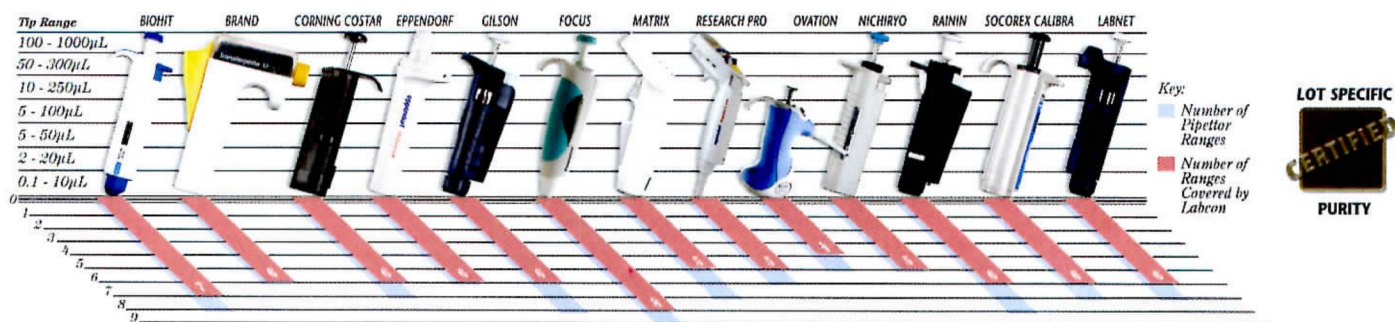
ZAP Aerosol Filters Won't Contaminate Your Sample

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	0.060	0.026	0.015	0.008	0.02730
Rainin	0.039	0.019	0.013	0.005	0.01900
Biohit	0.025	0.026	0.014	0.004	0.01725
ZAP	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 310nm. The results were recorded.

ZAP 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.

Zap™ Aerosol Filter Pipet Tips

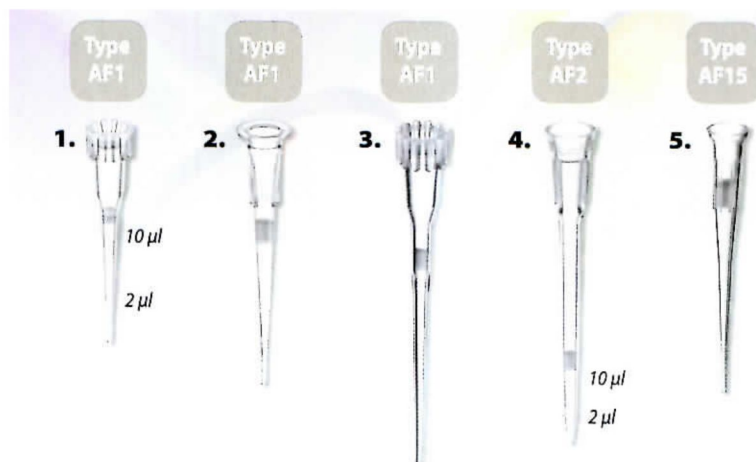


Labcon offers a complete family of tips for the pipets you typically use. This chart shows there is a Labcon ZAP tip for micro pipettors in all popular ranges.



Every lot
lab tested
for purity.

Non-Pyrogenic



ZAP Aerosol Filter Tips Guarantee PCR* Reliable Purity

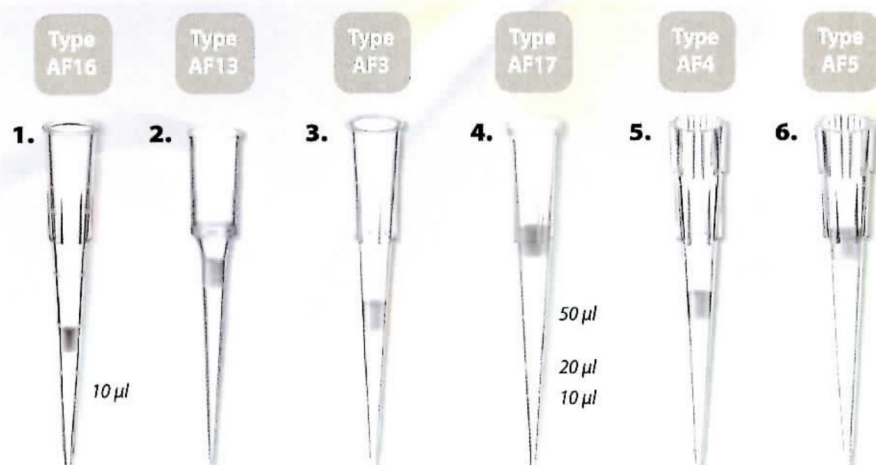
Use Labcon tips in your lab work with confidence. All Labcon tips are manufactured robotically to eliminate contamination. Every lot of tips produced is tested on the pipets they are intended for, ensuring they fit and perform correctly. The resin used for tips is pretested before use to determine its extractables profile. Resins that have high levels of residue in the 240 to 310 nm 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.

1. 0.1-10µl with UltraFine™ Point and Graduations at 2, 10µl Ht: 1.237" Max fill: 10.7 µl	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1051-965	96 Rack	1152	✓	11,520
	1051-225	Eclipse Refill	960	✓	4,800
2. 0.1-10µl Extended Length with Tubegard™ Ring Ht: 1.500" Max fill: 20.0 µl	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1151-965	96 Rack	960	✓	9,600
	1151-225	Eclipse Refill	960	✓	4,800
3. 0.1-10µl Extra Long with UltraFine™ Point Ht: 1.875" Max fill: 11.0 µl	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1191-965	96 Rack	960	✓	9,600
4. 0.5-10µl with Bevel Point™ and Graduations at 2, 10µl Ht: 1.765" Max fill: 10.5 µl	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1052-965	96 Rack	960	✓	9,600
5. 0.1-10µl with UltraFine™ Point Ht: 1.500" Max fill: 20.0 µl	Item	Package	Qty/Pk	Sterile	Qty/Cs
	1150-965	96 Rack	960	✓	9,600

* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.



Non-Pyrogenic



TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTOR
SEE PAGES 47-52.

1. 0.5-10 µl with Graduations at 10µl

Ht: 1.955" Max fill: 12 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1091-965	96 Rack	960	✓	9,600

2. 1-20µl Aerosol Tip for Rainin LTS®

Ht: 1.900"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1153-965	96 Rack	960	✓	9,600
1153-225	Eclipse Refill	960	✓	4,800

3. 1-40µl with Bevel Point™

Ht: 1.955" Max fill: 40.6 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1055-965	96 Rack	960	✓	9,600
1055-165	Individually Wrapped	200	✓	2,000
1055-225	Eclipse Refill	960	✓	4,800

4. 1-50µl with Graduations at 10, 20, 50µl and UltraFine™ Point

Ht: 1.955" Max fill: 102 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1096-965	96 Rack	960	✓	9,600

5. 1-50µl with Bevel Point™

Ht: 1.955" Max fill: 53.5 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1053-965	96 Rack	960	✓	9,600

6. 1-100µl with Bevel Point™

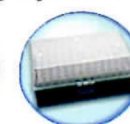
Ht: 1.955" Max fill: 101.2 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1054-965	96 Rack	960	✓	9,600

Packaging Options



Individually Wrapped

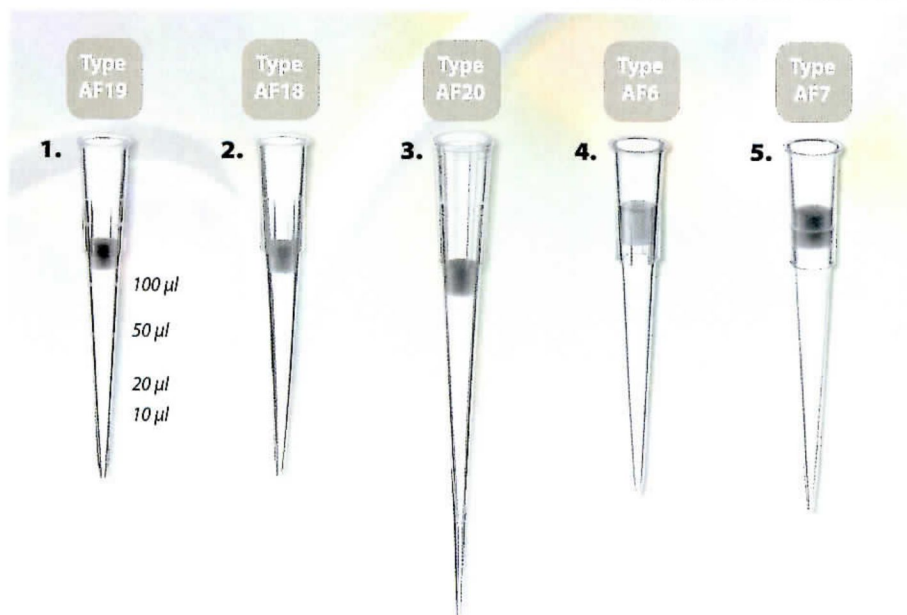


96 Rack



Eclipse Refill

Non-Pyrogenic



TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETORS
SEE PAGES 47-52.

1. 1-100µl with Bevel Point™ and Graduations at 10, 20, 50, 100µl Ht: 1.955" Max fill: 105µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1092-965	96 Rack	960	✓	9,600

2. 1-100µl with Bevel Point™ Ht: 1.955" Max fill: 105µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1094-965	96 Rack	960	✓	9,600
1094-225	Eclipse Refill	960		4,800

3. 1-100µl for Gel Loading Ht: 2.544" Max fill: 101µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1095-965	96 Rack	576	✓	4,608

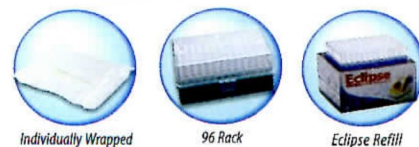
4. 1-160µl with Bevel Point™ Ht: 1.955" Max fill: 165.3 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1056-965	96 Rack	960	✓	9,600
1056-165	Individually Wrapped	200	✓	2,000

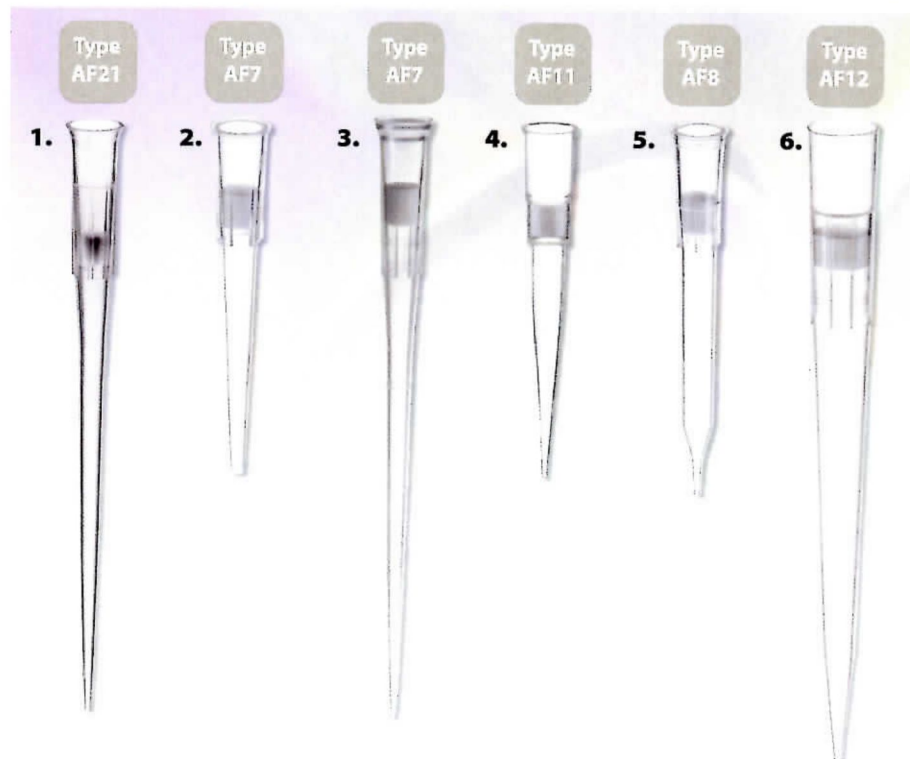
5. 1-200µl with UltraFine™ Point Ht: 2.050" Max fill: 207.3 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1059-965	96 Rack	960	✓	9,600
1059-165	Individually Wrapped	200	✓	2,000
1059-225	Eclipse Refill	960	✓	4,800

Packaging Options



Non-Pyrogenic



TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETORS
SEE PAGES 47-52.

- 1. 1-100 µl with UltraFine™ Point and Extended Length**
Ht: 3.300" Max fill: 180.0 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1098-965	96 Rack	576	✓	4,608

- 2. 1-200 µl Wide Orifice for Whole Cells with Bevel Point™**
Ht: 1.955" Max fill: 208.0 µl
Orifice: 1.450 mm

Item	Package	Qty/Pk	Sterile	Qty/Cs
1152-965	96 Rack	960	✓	9,600

- 3. 1-200 µl with UltraFine™ Point**
Ht: 3.300" Max fill: 248.0 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1156-965	96 Rack	576	✓	4,608

- 4. 1-200 µl Aerosol Tip for Rainin LTS®**
Ht: 1.955" Max fill: 217.0 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1154-965	96 Rack	960	✓	9,600
1154-225	Eclipse Refill	960	✓	4,800

- 5. 1-300 µl with Bevel Point™**
Ht: 2.050" Max fill: 305.0 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1058-965	96 Rack	960	✓	9,600
1058-225	Eclipse Refill	960	✓	4,800

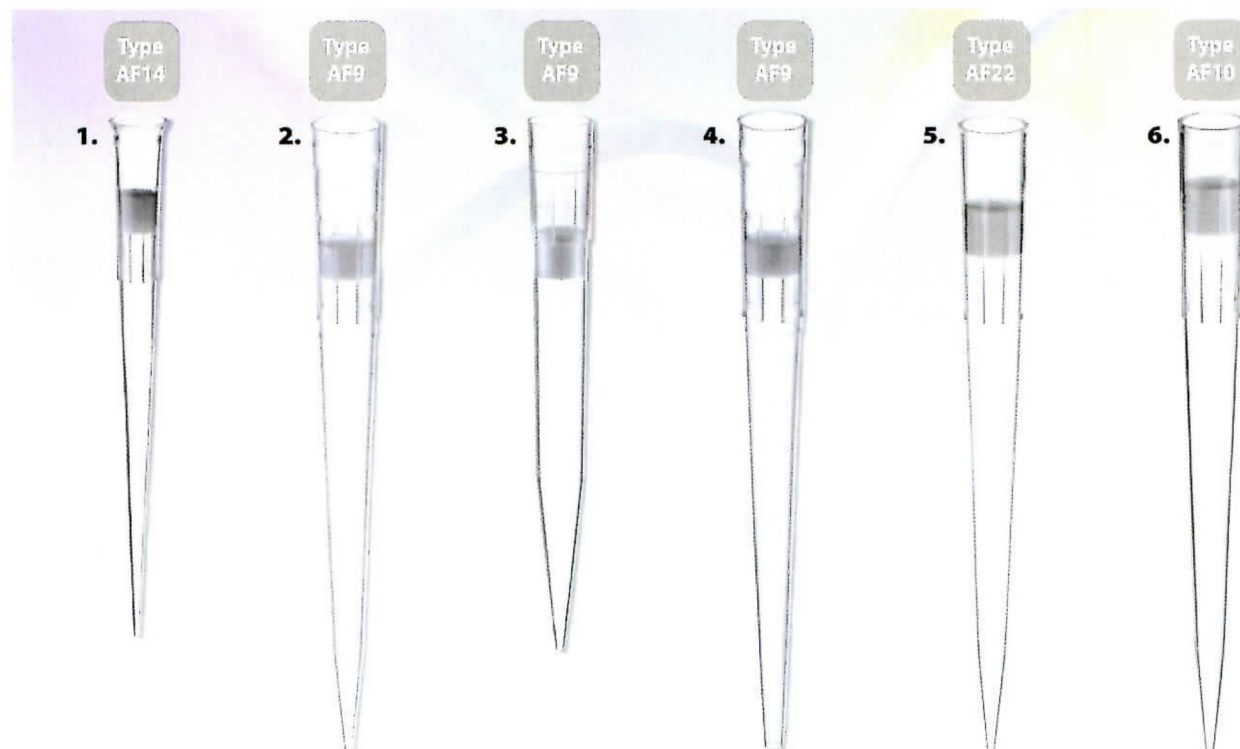
- 6. 100-1000 µl for Rainin® LTS®**
Ht: 3.500" Max fill: 1016.0 µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1155-965	96 Rack	576	✓	4,608
1155-225	Eclipse Refill	768	✓	2,304

Packaging Options



Non-Pyrogenic



- 1. 1-300µl with UltraFine™ Point and Extended Length**
Ht: 2.875" Max fill: 324.0µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1158-965	96 Rack	576	✓	4,608

- 2. 100-1000µl with UltraFine™ Point**
Ht: 3.500" Max fill: 1050.0µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1057-965	96 Rack	576	✓	4,608
1057-165	Individually Wrapped	200	✓	2,000
1057-225	Eclipse Refill	768	✓	2,304

- 3. 100-1000µl with Flextop™ and UltraFine™ Point**
Ht: 2.990" Max fill: 1010.1µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1097-965	96 Rack	576	✓	4,608

- 4. 100-1000µl with Flextop™ and Wide Orifice for pipetting whole cells**
Ht: 3.500" Max fill: 1005.0µl
Orifice opening is 0.0800"

Item	Package	Qty/Pk	Sterile	Qty/Cs
1199-965	96 Rack	576	✓	4,608

- 5. 100-1200µl for Biohit® pipettors**
Ht: 3.500" Max fill: 1250.0µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1159-965	96 Rack	576	✓	4,608

- 6. 100-1250µl for Matrix® Impact pipettors**
Ht: 3.500" Max fill: 1260.0µl

Item	Package	Qty/Pk	Sterile	Qty/Cs
1157-965	96 Rack	576	✓	4,608



TIPS ARE SHOWN ACTUAL SIZE.
TO FIND OUT WHICH TIPS FIT YOUR PIPETTORS
SEE PAGES 47-52.

Packaging Options



Individually Wrapped



96 Rack



Eclipse Refill

The Earth Friendly® Company





Simple to use Aerosol Filter Tip Refills.

- Refills Labcon tip racks
- Certified RNase/DNase Free
- Non pyrogenic
- Pure filters are contamination free
- Sterile
- Sustainable packaging



Lift.



Place.

The Eclipse UNO Filter Pipet Tip Refill system from Labcon brings the ease and value of Eclipse refills to aerosol pipet tips. With a simple lift, place, and snap, you can refill Labcon pipet tip racks with 9 styles of aerosol filter tips. Eclipse refill tips are lab certified Rnase/Dnase-and Endotoxin-free and use a validated sterile process and include an expiration date on every pack. Made to help you meet your sustainability goals the package is made exclusively from recyclable and renewable materials. See pages 40-44 for tips available in Eclipse UNO refills.



Aerosol Filter Tips Compatibility Chart — BIOHIT, BRAND

Popular Pipettor Brands



BIOHIT					
eLine, Picus		ePet		mLine	
Channels		Channels		Channels	
1	8,12	1	8,12	1	8,12
Page/Tip Type Aerosol Tips					

36,40	AF1	0.2-10	0.2-10	0.2-10	0.2-10	0.1-3, 0.5-10
40	AF15	0.2-10	0.2-10			0.1-3, 0.5-10
40	AF2			0.2-10		
36,41	AF3					2-20
41	AF4					2-20
42	AF19					5-100
42	AF18			5-100	5-100	5-100
41	AF17			5-100	5-100	5-100
42	AF20			5-100	5-100	5-100
41	AF5					10-100
42	AF6	5-120	5-120			
36,42,43	AF7					20-200
44	AF14	10-300	10-300		25-250	20-200 30-300
36,43	AF8	10-300	10-300		25-250	20-200
36,44	AF9			50-1200*	50-1200*	100-1000
44	AF22		50-1200	50-1200*	50-1200*	



	B I O H I T (Proline)					
	Proline Electronic		Proline		Proline Plus	
	Channels		Channels		Channels	
	1	8,12	1	4, 8,12	1	
	Page/Tip Type Aerosol Tips					

36,40	AF1	0.2-10	0.2-10	0.5-10	0.5-10	0.1-3, 0.5-10
40	AF15					0.5-10
40	AF2					20-200
36,41	AF3					2-20
41	AF4			5-50	5-50	
42	AF19	5-100	5-100	10-100		10-100
42	AF18	5-100	5-100	10-100		10-100
41	AF17	5-100	5-100	10-100		10-100
42	AF20	5-100	5-100	10-100		10-100
43	AF21					10-100
36,42,43	AF7	5-100		50-200		20-200
44	AF14	10-250	25-250	50-200	50-250, 50-300	
36,43	AF8			10-250		
36,44	AF9	50-1000		200-1000		100-1000
44	AF22	50-1200	50-1200			

* will only hold 1000µl on ePet pipettor.



BRAND					
Transferpette		Electronic		Transferpette 5	
Channels		Channels		Channels	
1	8,12	1	8,12	1	8,12
Page/Tip Type Aerosol Tips					

36,40	AF1	0.1-10	0.5-10			0.1-1, 0.5-10	0.5-10
40	AF2	0.5-10	2-20	0.5-10	0.5-10	2-20	
36,41	AF3	2-20	2-20, 2.5-25				
41	AF4	5-50	5-50				
42	AF19	10-100	10-100		5-100	10-100	10-100
42	AF18	10-100	10-100		5-100	10-100	10-100
41	AF17	10-100	10-100		5-100	10-100	10-100
42	AF20	10-100	10-100		5-100	10-100	10-100
41	AF5			10-100			
43	AF21	10-100	10-100		5-100	10-100	10-100
36,42,43	AF7	20-200	20-200	20-200	10-200	20-200	20-200
44	AF14	25-250	30-300	20-200, 30-300	15-300		30-300
36,43	AF8	25-250					
36,44	AF9	100-1000		100-1000		100-1000	

labcon

Aerosol Filter Tips Compatibility Chart — EPPENDORF, GILSON

Popular Pipettor Brands



EPPENDORF

Electronic Channels	Reference Channels	Research Pro Channels		Research & Research Plus Channels	
1	1	1	8,12	1	8,12

Page/Tip Type

Aerosol Tips

36,40	AF1	0.2-10	0.1-2.5	0.5-10	0.5-10	0.5-10	0.5-10
40	AF15					0.5-10	
40	AF2		0.5-10, 2-20	0.5-10	0.5-10		
36,41	AF3	5-100	2-20			2-20	
41	AF4	5-100					
42	AF19	5-100	10-100	5-100	5-100	10-100	10-100
42	AF18	5-100	10-100	5-100	5-100	10-100	10-100
41	AF17	5-100	10-100	5-100	5-100	10-100	10-100
42	AF20	5-100	10-100	5-100	5-100	10-100	10-100
41	AF5	5-100	10-100	5-100	5-100	10-100	10-100
43	AF21			5-100	5-100	10-100	10-100
36,42,43	AF7	5-100	50-200			20-200	
44	AF14		50-200	20-300	20-300	20-200	30-300
36,43	AF8		50-200			20-200	
36,44	AF9		100-1000	50-1000		100-1000	



GILSON

Pipetman Classic, G, L Channels	Pipetman Ultra Channels		Neo Channels	Concept Channels		Pipetman M Channels	
1	1	8, 12	1	1	8,12	1	8

Page/Tip Type

Aerosol Tips

36,40	AF1	0.2-2, 1-10	0.2-2, 1-10		0.2-2, 1-10	0.5-10	1-10	0.5-10	
36,41	AF3	2-20	2-20	1-20	2-20			2-20	1-20
42	AF19	20-100	20-100		20-100	5-100	10-100		
42	AF18	20-100	20-100		20-100	5-100	10-100		
41	AF17	20-100	20-100		20-100	5-100	10-100		
42	AF20	20-100	20-100		20-100	5-100	10-100		
41	AF5	20-100							
36,42,43	AF7	50-200	20-200		20-200	5-100	10-100		20-200
44	AF14	50-200	20-200	20-300		20-300	30-300		
36,43	AF8	50-200	20-200						
36,44	AF9	200-1000	200-1000		100-1000			100-1000	



RAININ



EDP3 Plus	EDP1	Pipet Lite SL	Classic	E-Man Hybrid	EDP3 with LTS	EDP1 with LTS	Lite & Plus w/LTS	E4 XLS
Channels	Channels	Channels	Channels	Channels	Channels	Channels	Channels	Channels
1	1	1	1	1	1 8,12,16,24	1 8,12,16,24	1 8,12	8, 12

Page/Tip Type

Aerosol Tips

36,40	AF1	0.5-10	0.5-10	0.1-2, 0.5-10	0.1-2, 0.5-10							
36,41	AF3	2-20	2-20	2-20	2-20							
41	AF13	0.1-2, 0.5-10, 2-20	0.1-2, 0.5-10, 2-20	0.1-2, 0.5-10, 2-20		0.1-2, 0.5-10, 2-20	0.5-10, 2-20	0.5-10	0.5-10, 2-20	1-10, 2-20	0.1-2, 0.5-10, 2-20	0.5-10
42	AF19			10-100	10-100							
42	AF18			10-100	10-100							
41	AF17			10-100	10-100							
42	AF20			10-100	10-100							
41	AF5	10-100	10-100									
36,42,43	AF7	20-200	20-200	20-200	20-200							
43	AF11	10-100, 20-200	10-100, 20-200	10-100, 20-200		10-100, 20-200	5-50, 20-200	5-50, 20-200	10-100, 20-200	5-50, 20-200	10-100, 20-200	5-50, 20-200
43	AF12	100-1000	100-1000	100-1000		100-1000	100-1000	100-1000	100-1000		100-1000	100-1000
44	AF14	20-300	20-300	20-300	20-200							
36,43	AF8	20-200		20-200								
36,44	AF9	100-1000	100-1000	100-1000								



THERMO/Finnpipette

Digital, F1, F2	Focus	Novus
Channels	Channels	Channels
1 8, 12	1 8,12	1

Page/Tip Type

Aerosol Tips

36,40	AF1	0.2-2**, 0.2-10*, 0.5-5**, 0.5-10*, 1-10**	0.5-10*, 1-10**	0.3-3, 0.5-5, 1-10	1-10	1-10
40	AF15	0.5-10				
36,41	AF3	2-20		3-30		
41	AF4	5-50* Digital only	5-50		5-50	5-50
42	AF19			1-10		
42	AF18	10-100**	10-100**	10-100		
41	AF17	10-100**	10-100**	10-100		
42	AF20	10-100**	10-100**	10-100		
41	AF5	10-100**	10-100**	10-100		
43	AF21	10-100**	10-100**	10-100		
44	AF14		30-300**	30-300		
36,44	AF9	100-1000, 200-1000		100-1000		100-1000
44	AF10	100-1000				
41	AF16	0.5-10*, 1-10**				

* for digital only; ** for F1 only



THERMO/Matrix

Impact/2	Shorty
Channels	Channels
1	1

Page/Tip Type

Aerosol Tips

40	AF15	0.5-12.5, 30*	0.5-12.5, 30*
42	AF6	2-125	2-125
36,42,43	AF7	2-125, 5-250	2-125, 5-250
44	AF14	5-250	5-250
36,43	AF8	5-250	5-250
36,44	AF9	15-1250	15-1250
44	AF10	15-1250	15-1250

* Not for 16 Channel Equalizer



Popular Pipettor Brands



LABNET						
		Labpette Discovery		Biopette E Electronic		Discovery Pro
		Channels		Channels		Channels
		1	8, 12	1	8, 12	1, 8, 12
Page/Tip Type		Aerosol Tips				
36,40	AF1	0.2-2, 0.5-10	0.5-10, 1-10	0.5-10	0.5-10	0.2-2, 0.5-10
40	AF15			2-20	2-20	
40	AF2	0.2-2, 1-10				
36,41	AF3	2-20	2-20			2-20
41	AF4	5-50	5-50			
42	AF19	10-100				
42	AF18	10-100				
41	AF17	10-100				
42	AF20					
41	AF5	10-100	10-100			
36,42,43	AF7	20-200	20-200	10-200	10-200	20-200
44	AF14	50-250	50-300			
36,43	AF8		20-200, 50-300			
36,44	AF9	100-1000	100-1000			100-1000



METTLER		
		Toledo
		Channels
		1
Page/Tip Type		Aerosol Tips
36,40	AF1	0.1-2.5, 0.5-10
36,41	AF3	2-20
41	AF5	10-100
36,42,43	AF7	20-200
36,43	AF8	20-200
36,44	AF9	100-1000



NICHIRYO				
		EX, EX Plus	Le	Nichipet 7000
		Channels	Channels	Channels
		1	1	8, 12
Page/Tip Type		Aerosol Tips		
36,40	AF1	0.2-2, 0.5-10	0.5-10	0.5-10
41	AF4			5-50
42	AF19	10-100	10-100	
42	AF18	10-100	10-100	
41	AF17	10-100	10-100	
42	AF20	10-100	10-100	
36,42,43	AF7	20-200	20-200	40-200
44	AF14	20-200	20-200	40-200, 50-300
36,43	AF8	20-200	20-200	
36,44	AF9	100-1000	100-1000	



POULTEN		
		Volac Ultra Variable
		Channels
		1
Page/Tip Type		Aerosol Tips
40	AF2	1-10
41	AF4	5-50
42	AF19	10-100
42	AF18	10-100
41	AF17	10-100
42	AF20	10-100
42,43	AF7	20-200
36,44	AF9	100-1000





ACCUMAX

Smart, Accumax Pro, A, VA-FA

Channels

1, 8, 12

Page/Tip Type

Aerosol Tips

36,40	AF1	0.1-2.5, 0.5-10
36,41	AF3	2-20
42	AF18	5-50, 10-100
41	AF17	10-100
42	AF20	10-100
36,42,43	AF7	20-200, 50-200
36,44	AF9	100-1000



DRAGONLAB

TopPette, MicroPette, MicroPette Plus

Channels

1, 8, 12

Page/Tip Type

Aerosol Tips

36,40	AF1	0.1-2.5, 0.5-10
36,41	AF3	2-20
42	AF18	5-50, 10-100
41	AF17	10-100
42	AF20	10-100
36,42,43	AF7	20-200, 50-200
36,44	AF9	100-1000, 200-1000



CAPP

Aero

Channels

1

8,12

Page/Tip Type

Aerosol Tips

36,40	AF1	0.5-10	0.5-10
41	AF4	5-50	5-50
42	AF19	10-100	
42	AF18	10-100	
41	AF17	10-100	
42	AF20	10-100	
43	AF21	10-100	
36,42,43	AF7	20-200	20-200
44	AF14		30-300
36,44	AF9	100-1000	



CORNING

8/12-Pette

Octapette

Lambda

Channels

Channels

Channels

8, 12

8

1

Page/Tip Type

Aerosol Tips

36,40	AF1			0.1-2.5, 0.5-10
36,41	AF3			2-20
41	AF4			2-20
41	AF5			10-100
36,42,43	AF7	20-200	25, 50, 100, 200	20-200
44	AF14	20-200		
36,43	AF8	20-200		20-200
36,44	AF9			100-1000

Other Pipettor Brands

		HAMILTON			
		Softgrip		Softouch Electronic	
		<i>Channels</i>		<i>Channels</i>	
		1	8,12	1	8,12
Page/Tip Type		Aerosol Tips			
36,40	AF1	0.2-2, 1-10		0.2-10	0.2-10
36,41	AF3	2.5-25			
41	AF4		5-50		
42	AF19	10-100		5-100	
42	AF18	10-100		5-100	
41	AF17	10-100		5-100	
42	AF20	10-100		5-100	
41	AF5	10-100		5-100	
44	AF14		30-300		25-250
36,44	AF9	100-1000			
36,42,43	AF7	10-100			
44	AF22				50-1200

		VISTALAB			
		MLA	Ovation	Ovation Electronic	
		<i>Channels</i>	<i>Channels</i>	<i>Channels</i>	
		1	1	1	8, 12
Page/Tip Type		Aerosol Tips			
36,40	AF1		1-10		
40	AF15			0.5-20	0.5-20
41	AF4	10-50			
42	AF19		10-100		
42	AF18		10-100		
41	AF17		10-100		
42	AF20		10-100		
41	AF5	10-50	10-100		
36,42,43	AF7	50-200	20-200, 40-200		
44	AF14		20-200, 40-200		
36,43	AF8	50-200	20-200		
36,44	AF9		100-1000*		

* requires Type A Nozzle Vistalab #9057-1016 100-1000µL, 201-1000µL

KENDALL	
Oxford Benchmate	
Channels	
1	
Page/Tip Type	
Aerosol Tips	

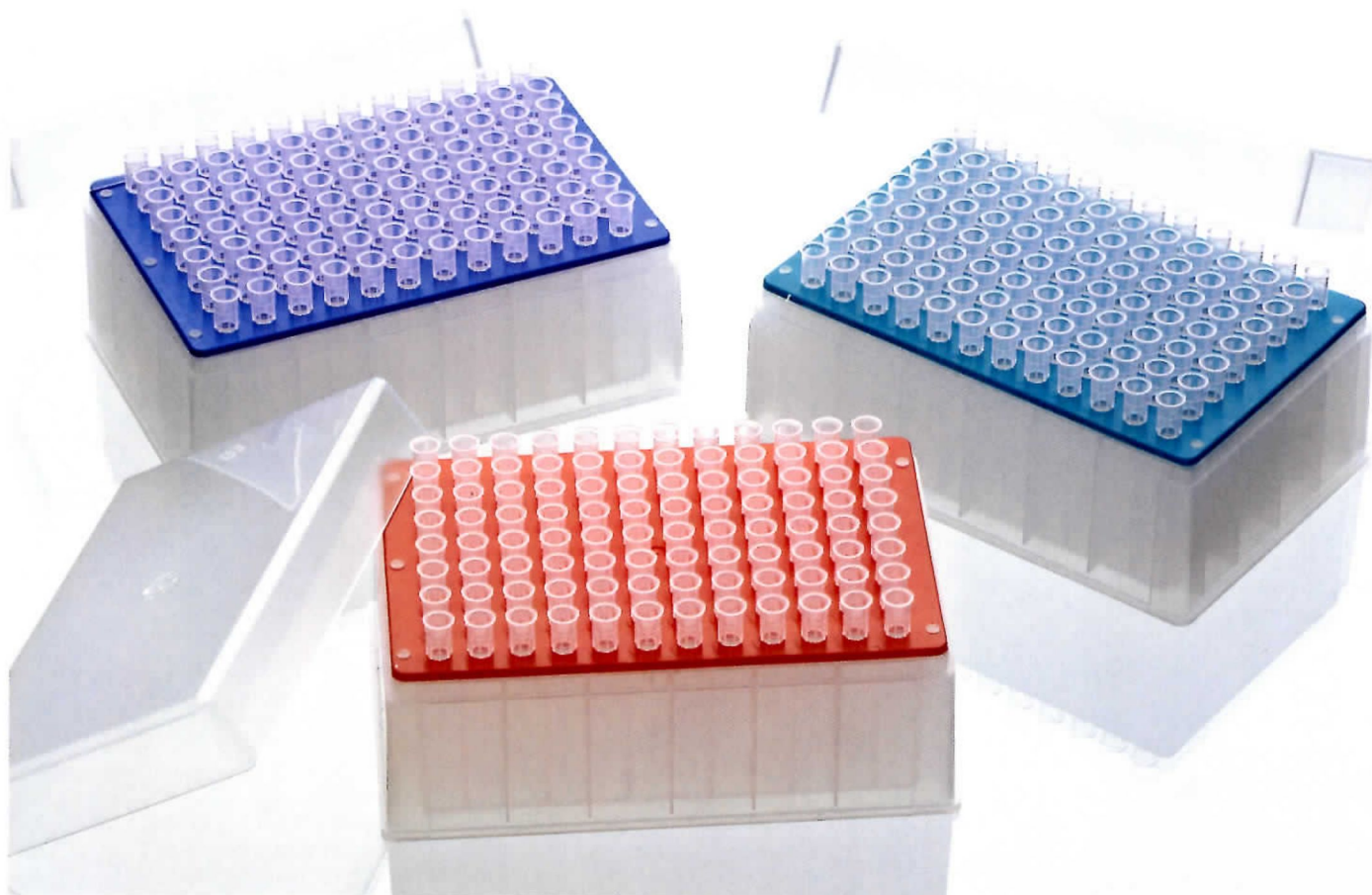
36,40	AF1	0.5-10
36,42,43	AF7	10-200, 20-200, 40-200
36,43	AF8	10-200
36,44	AF9	200-1000



SOCOREX					
Acura 825, Manual XS		Calibra 822	Calibra 825	Electro 925	Electro 955
Channels		Channels	Channels	Channels	Channels
1	8, 12	1	8, 12	1	8, 12
Page/Tip Type		Aerosol Tips			

36,40	AF1	0.1-2, 0.5-10			0.5-10	0.5-10
40	AF15	1-10				
40	AF2		0.5-10	0.2-2, 1-10	1-10	
36,41	AF3	2-20				
41	AF4	5-50	5-50			
42	AF19	10-100		10-100	10-100	
42	AF18	10-100		10-100	10-100	
41	AF17	10-100		10-100	10-100	
42	AF20	10-100		10-100	10-100	
36,42,43	AF7	20-200	20-200	20-200	20-200	10-200
44	AF14	40-350				
36,44	AF9	100-1000		100-1000		





Robotic Pipet Tips for Workstations

- For Beckman® Workstations
- Automation Certified
- RNase/DNase Free
- Non pyrogenic
- Pre-tested pure resin
- Color coded racks

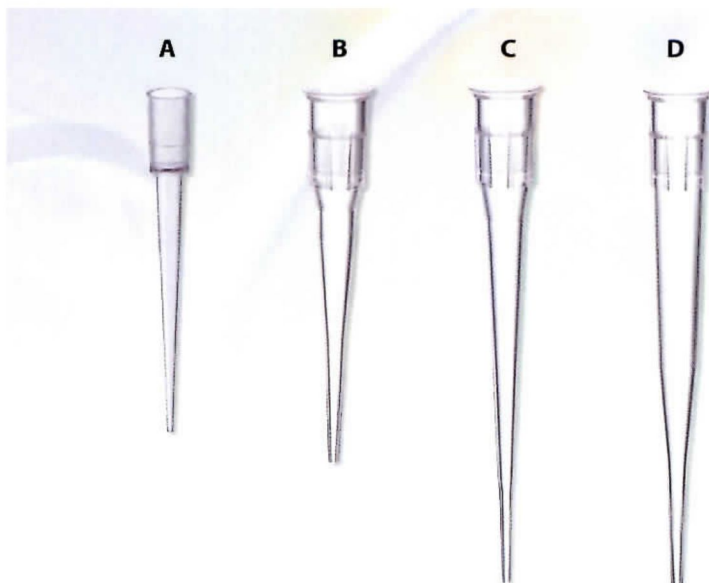


Robotic Pipet Tips

Labcon robotic pipet tips for Beckman® FX and NX are designed and tested to fit your workstation. Made from pure pre-tested medical grade resins to ensure the integrity of your work. Each lot is tested and certified free of RNase/DNase (Nuclease), Human DNA, and Endotoxins (non pyrogenic). Resins are pre-tested with a U.S.P. test method to ensure they are metal free, and they are free of Oleamide and Phalates. Unlike tips sold as "pre-sterile" these tips use a validated medical grade sterilization process.

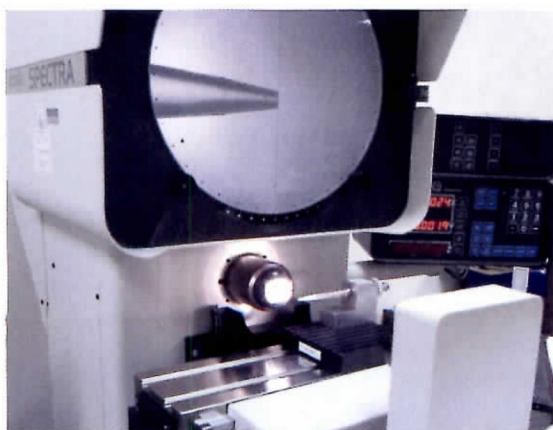
Labcon Robotic Pipet Tips are made of virgin polypropylene and furnished pre-racked in extra heavy automation grade polypropylene racks. Autoclavable.

- For Beckman® FX and NX
- Non pyrogenic, Endotoxin, Nuclease, Protease, Metal Free
- Pure research grade resins
- Sterile (validated) and Non-sterile available

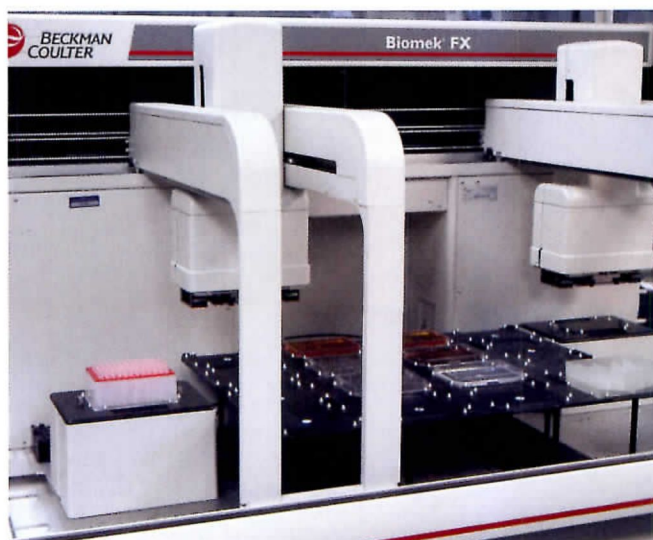


Code	Item	Package	Qty/Pk	Sterile	Qty/Cs
A	8005-690	P30 AP384 Style, 30µL capacity	384 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs		19,200
A	8005-695	P30 AP384 Style, 30µL capacity	384 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs	✓	19,200
B	8014-690	P20 AP96 Style, 100µL capacity	96 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs		4,800
B	8014-695	P20 AP96 Style, 100µL capacity	96 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs	✓	4,800
C	8024-690	P50XL AP96 Style, 90µL capacity	96 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs		4,800
C	8024-695	P50XL AP96 Style, 90µL capacity	96 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs	✓	4,800
D	8017-690	P250XL AP96 Style, 220µL capacity	96 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs		4,800
D	8017-695	P250XL AP96 Style, 220µL capacity	96 Tips/Rack, 10 Racks/Pkg, 5 Pkg/Cs	✓	4,800

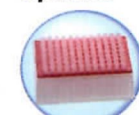
TIPS ARE SHOWN ACTUAL SIZE.



Every lot of APT™ tips are meticulously tested and inspected.



Packaging Options

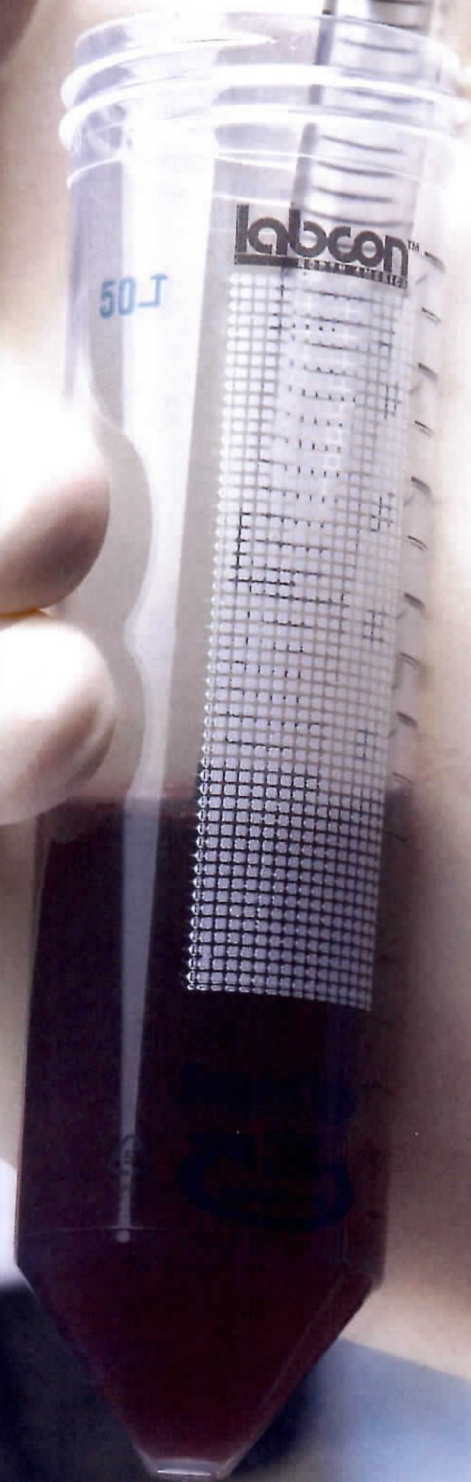


96 Rack



*SuperClear™ Centrifuge Tubes with Patented
ViewPoint™ Labeling Surface*

We designed our SuperClear™ centrifuge tubes to successfully meet your needs every time you use them. We test every lot of these tubes at a much higher g-force than we rate them to ensure that you can spin them safely. Our quality control team tests the seals with chloroform. So these don't just look like centrifuge tubes, they really are.



CENTRIFUGATION

SuperClear™ Centrifuge Tubes with Patented ViewPoint™ Labeling Surface



SuperClear™ tubes are not only better when you use them, the process used to make them is better, helping reduce their environmental footprint.



Each of these tubes is molded in a high energy efficiency electric molding machine that consumes up to 40% less energy.



SuperClear™ tubes are made using unique "waste free" machines that produce no plastic waste.

SuperClear™ tubes are available in packaging styles for all your needs, including our Patented fiber racks, Sterile bags, and Bulk bags. All our sterile products use medical grade packaging and are radiation sterilized following a validated ISO 11137 method.

SuperClear™ tubes offer you a standard of performance not available from other brands of centrifuge tubes. These tubes are made from a unique durable resin that is far more durable than commodity grade resins used in most other brands of tubes. This high quality resin makes it possible for you to spin these tubes at g-forces up to 233% greater than other tubes. So you can finally do those extractions you did in polycarbonate tubes before.

SuperClear™ tubes feature the ViewPoint™ labeling areas that help reduce smearing of lab markers and also helps protect sample labeling from damage during procedures.



You can order these tubes with either a flat cap or a plug style cap. The flat style caps can be easily labeled and the 50ml caps include an integral elastomeric seal that eliminates leaking. And the plug style caps are perfect for use with horizontal shakers or extended storage.



These tubes are printed using a high speed rotary process and reagent/chemical resistant inks that allow us to eliminate V.O.C. pollutants.

SuperClear™ Centrifuge Tubes with Patented ViewPoint™ Labeling Surface



50mL indication



ViewPoint™ surface shows contents in tube clearly but labels easily



ViewPoint™ surface helps prevent smearing



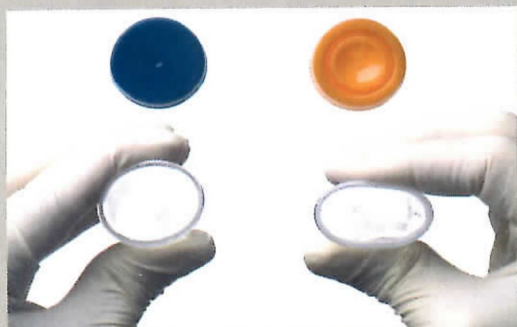
Labcon tubes are made using the highest quality molds and exacting production standards.

Item	Material	Autoclavable*	Max RCF**	Temp Range***
15mL Printed Tube	Polypropylene	✓	17,000	-80° to 122 °C
50mL Printed Tube	Polypropylene	✓	20,000	-80° to 122 °C

* 15mL and 50mL 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 $\pm 3\%$.

*** Maximum storage temperatures. Use of polyfoam or other type of insulating racks that cause uneven cooling may cause breakage. Use of organic solvents, multiple spin cycles, vortexing, or other procedures may reduce maximum freezing temperature. Tubes should be allowed to come to room temperature before any procedures.



Thicker Labcon tubes withstand higher g-forces



Comparison photo of 50mL tube cones shows thicker cones of SuperClear tubes (far right, Teal) withstand breakage better than popular brands. Actual test with market samples. Tubes filled with 45mL distilled water. Spun unsupported for 15 minutes @ 20,000 RCF.

CENTRIFUGATION

SuperClear™ 15mL and 50mL Centrifuge Tubes

Low profile cap design allows tubes to be stored in racks without crowding

Easy grip cap design is simple to use even when wearing gloves

Extra large labeling area

Clear black graduations and volumes

Tubes from other brands offer fewer features than Labcon



Patented racks fold flat for recycling.



50mL



50mL tubes
25 per rack

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



15mL



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

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

50mL SuperClear Centrifuge Tubes with Flat Caps and Printed Graduations

Item	Package	Qty/Pk	Sterile	Qty/Cs
3181-340	50/Bag, 10 Bags/Case	50		500
3181-345	50/Bag, 10 Bags/Case	50	✓	500
3191-330	25/Rack, 20 Racks/Case	25		500
3191-335	25/Rack, 20 Racks/Case	25	✓	500
3191-870	Bulk, Tubes & Caps in Separate Bags	500		500

50mL SuperClear Centrifuge Tubes with Plug Style Caps and Printed Graduations

Item	Package	Qty/Pk	Sterile	Qty/Cs
3182-340	50/Bag, 10 Bags/Case	50		500
3182-345	50/Bag, 10 Bags/Case	50	✓	500
3192-330	25/Rack, 20 Racks/Case	25		500
3192-335	25/Rack, 20 Racks/Case	25	✓	500
3192-870	Bulk, Tubes & Caps in Separate Bags	500		500

15mL SuperClear Centrifuge Tubes with Flat Caps and Printed Graduations

Item	Package	Qty/Pk	Sterile	Qty/Cs
3131-340	50/Bag, 10 Bags/Case	50		500
3131-345	50/Bag, 10 Bags/Case	50	✓	500
3141-330	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50		500
3141-335	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50	✓	500
3141-870	Bulk, Tubes & Caps in Separate Bags	500		500

15mL SuperClear Centrifuge Tubes with Plug Style Caps and Printed Graduations

Item	Package	Qty/Pk	Sterile	Qty/Cs
3132-340	50/Bag, 10 Bags/Case	50		500
3132-345	50/Bag, 10 Bags/Case	50	✓	500
3142-330	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50		500
3142-335	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50	✓	500
3142-870	Bulk, Tubes & Caps in Separate Bags	500		500





15mL and 50mL PerformR™ Centrifuge Tubes

PerformR™ Centrifuge tubes are designed for your everyday centrifugation and storage needs. These tubes include large white solvent resistant labeling areas and black easy to read graduations. They are available with either a flat cap that is easy to label or a plug style cap for horizontal applications. All package versions are sterilized with a validated and approved ISO 11137 method.

Racked tubes are packaged in a reusable, autoclavable, and freezable (-80°C) polypropylene rack that inter-locks to allow you to create a workstation.

Racks available separately and in colors, see page 76.



Durable polypropylene racks include numbered wells.



Racks lock together to form bench top work stations.

50mL PerformR™ Centrifuge Tubes with Flat Caps

Spins to:
12,500
RCF

50mL PerformR™ Centrifuge Tubes with Plug Style Caps

Spins to:
12,500
RCF

15mL PerformR™ Centrifuge Tubes with Flat Caps

15mL PerformR™ Centrifuge Tubes with Plug Style Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3186-345	50/Bag, 10 Bags/Case	50	✓	500
3196-335	25/Rack, 20 Racks/Case	25	✓	500
3196-870	Bulk, Tubes & Caps in Separate Bags	500		500

Item	Package	Qty/Pk	Sterile	Qty/Cs
3187-345	50/Bag, 10 Bags/Case	50	✓	500
3197-335	25/Rack, 20 Racks/Case	25	✓	500
3197-870	Bulk, Tubes & Caps in Separate Bags	500		500

Item	Package	Qty/Pk	Sterile	Qty/Cs
3136-345	50/Bag, 10 Bags/Case	50	✓	500
3146-335	25/Rack, 20 Racks/Case	25	✓	500
3146-870	Bulk, Tubes & Caps in Separate Bags	500		500

Item	Package	Qty/Pk	Sterile	Qty/Cs
3137-345	50/Bag, 10 Bags/Case	50	✓	500
3147-335	25/Rack, 20 Racks/Case	25	✓	500
3147-870	Bulk, Tubes & Caps in Separate Bags	500		500



Non-Pyrogenic
Endotoxin Free



CENTRIFUGATION

PerformR™ Centrifuge Tubes



50mL Freestanding Centrifuge Tubes

Freestanding 50mL Centrifuge Tubes are available for use in those applications where a rack is not available. They include a large white solvent resistant writing area and black graduations. Available with either a flat cap or a plug style cap.



Freestanding 50mL Centrifuge Tubes with Flat Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3095-340	50/Bag, 10 Bags/Case	50		500
3095-345	50/Bag, 10 Bags/Case	50	✓	500
3095-870	Bulk, Tubes & Caps in Separate Bags	500		500

Spins to:
10,000
RCF

Freestanding 50mL Centrifuge Tubes with Plug Style Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3094-340	50/Bag, 10 Bags/Case	50		500
3094-345	50/Bag, 10 Bags/Case	50	✓	500
3094-870	Bulk, Tubes & Caps in Separate Bags	500		500



Certified to IATA 95kPa Standard



Metal Free* Centrifuge Tubes with ViewPoint™ labeling surface

Our Metal Free tubes are made with ultra clean resins for the tube and cap and processed to ensure that common trace metals are kept below an ICP-MS detection level of one part per billion. These tubes are perfect for storage of samples and for applications requiring the assurance of low background metals. Available in sterile racks or bags. Metals included in testing are Calcium, Magnesium, Zinc, Iron, Manganese, Copper, Aluminum, Silicon, Nickel, Vanadium, Sodium, Phosphorus, Cobalt, Chromium, Potassium, Lithium, and Lead. Autoclavable (122°C) and freezable (-80°C).



UVsafe™ Amber 15mL and 50mL Centrifuge tubes for Light Sensitive samples.

These tubes are designed to block 100% of U.V. light. They can be used instead of foil to shield samples sensitive to light radiation. They have been lab tested and certified to block U.V. light, but will still pass visible light so you can see your sample volume. Autoclavable (122°C) and Freezable (-80°C).

**Metal Free*
50mL Centrifuge
Tubes**
with Flat Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3184-345	50/Bag, 10 Bags/Case	50	✓	500
3194-335	25/Rack, 20 Racks/Case	50	✓	500

**Metal Free*
15mL Centrifuge
Tubes**
with Flat Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3134-345	50/Bag, 10 Bags/Case	50	✓	500
3144-335	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50	✓	500

* Certified to less than 1PPB for major metals

**UVsafe™ Amber 50mL
Centrifuge Tubes**
with Plug Style Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3182-445	50/Bag, 10 Bags/Case	50	✓	500
3192-435	25/Rack, 20 Racks/Case	50	✓	500
3192-871	Bulk, Tubes & Caps in Separate Bags	500		500

**UVsafe™ Amber 15mL
Centrifuge Tubes**
with Plug Style Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3132-445	50/Bag, 10 Bags/Case	50	✓	500
3142-435	25/Rack, 2 Racks/Pkg, 10 Pkg/Cs	50	✓	500
3142-871	Bulk, Tubes & Caps in Separate Bags	500		500

**15mL Polystyrene
Centrifuge Tubes**
with External Molded
Graduations

Item	Package	Qty/Pk	Sterile	Qty/Cs
3130-340	50/Bag, 10 Bags/Case	50		500
3130-345	50/Bag, 10 Bags/Case	50	✓	500
3128-350	125/Bag, 4 Bags/Case	50		500
3128-355	125/Bag, 4 Bags/Case	50	✓	500
3115-870	Bulk, Tubes & Caps in Separate Bags	500		1000



15mL Polystyrene centrifuge Tubes.

Polystyrene tubes are made of crystal clear resin and bold etched graduations. They can be used for some culture applications that require a glass clear material. Not autoclavable or freezable.

CENTRIFUGATION

Large Centrifuge Tubes for Standard Centrifuges



175mL and 225mL Disposable Centrifuge Tubes

Large centrifuge tubes are perfect for clarifying large volume solutions or concentrating live cells in tissue culture.

Made from pure pre-tested resins to ensure the integrity of your work. Each lot is tested and certified free of RNase/DNase, Endotoxins, and is Non-pyrogenic. Resins are pre-tested, and are free of Oleamide, DiHEMA, and Phthalates.

These tubes come in unique balanced packages of 2 tubes. So you don't have to worry about resealing bags or re-sterilizing these tubes. They also include our exclusive caps with their integral elastomeric sealing ring that eliminates leaking.

Sterile tubes have been sterilized with a validated process using gamma radiation. Available in 175 ml and 225 ml volumes that fit standard cushions and rotors of floor model and benchtop centrifuges. Outside dimensions of 175ml tube is 61x117mm. Outside dimension of 225ml tube is 61x137mm. Spins to 8,000 x R.C.F.

175mL Centrifuge Tubes with attached Flat Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3080-820	2/Pack, 24 Packs/Case	2		48
3080-825	2/Pack, 24 Packs/Case	2	✓	48

225mL Centrifuge Tubes with attached Flat Caps

Item	Package	Qty/Pk	Sterile	Qty/Cs
3081-820	2/Pack, 24 Packs/Case	2		48
3081-825	2/Pack, 24 Packs/Case	2	✓	48



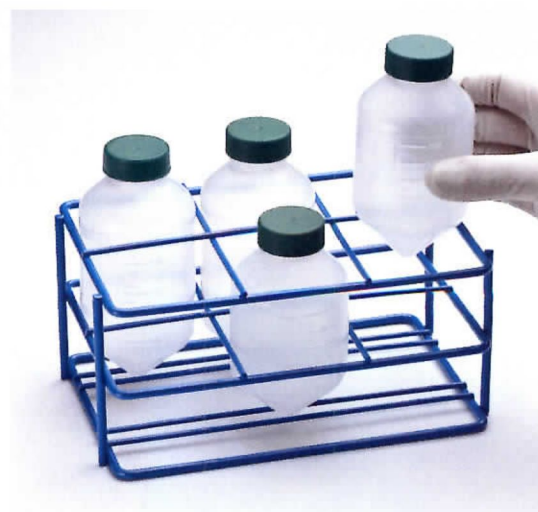
Exclusive Elastomeric Sealing Cap



175mL tube, 61mm wide x 118mm tall



225mL tube, 61mm wide x 137mm tall



Tubes fit standard storage racks



Microcentrifuge Tubes



1.7mL* SuperClear™ Polypropylene Microcentrifuge Tubes

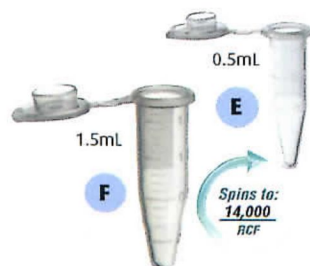
with Extra Large Top and Graduations.
Spins to 20,000 RCF. Autoclavable.

* maximum usable volume



2.0mL SuperClear™ Polypropylene Microcentrifuge Tubes

with Graduations. Tubes have frosted side labeling surface a thin membrane cap that can be pierced easily by a syringe. Resealable bag. Spins to 20,000 RCF. Autoclavable.



0.5mL Superslik™ Polypropylene Microcentrifuge Tubes

with Low Protein Binding surface. Include flat caps and writing surface. In resealable bags.

1.5mL Superslik™ Polypropylene Microcentrifuge Tubes

with Low Protein Binding surface. Include flat caps and writing surface. In resealable bags.



1.7mL SuperClear™ Polypropylene Microcentrifuge Tubes

In sterile packaging. 50 tubes per sterile bag, 10 bags per pack. Spin to 15,000 RCF.

Cap Opener for 0.5, 0.65, 1.5, 1.7 and 2.0mL Snap Top Microcentrifuge Tubes

Autoclavable. Polypropylene.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3012-870	Natural	500		5,000
3012-874	Red	500		5,000
3012-873	Orange	500		5,000
3012-872	Yellow	500		5,000
3012-878	Green	500		5,000
3012-877	Blue	500		5,000
3012-876	Purple	500		5,000
3012-879	Assorted	500		5,000

Item	Description	Qty/Pk	Sterile	Qty/Cs
3046-870	Natural	500		5,000
3046-874	Red	500		5,000
3046-873	Orange	500		5,000
3046-872	Yellow	500		5,000
3046-878	Green	500		5,000
3046-877	Blue	500		5,000
3046-876	Purple	500		5,000
3046-871	Amber (for tight sensitive samples)	500		5,000
3046-879	Assorted	500		5,000

Item	Description	Qty/Pk	Sterile	Qty/Cs
3025-570	Natural	500		5,000

Item	Description	Qty/Pk	Sterile	Qty/Cs
3039-560	Natural	250		2,500

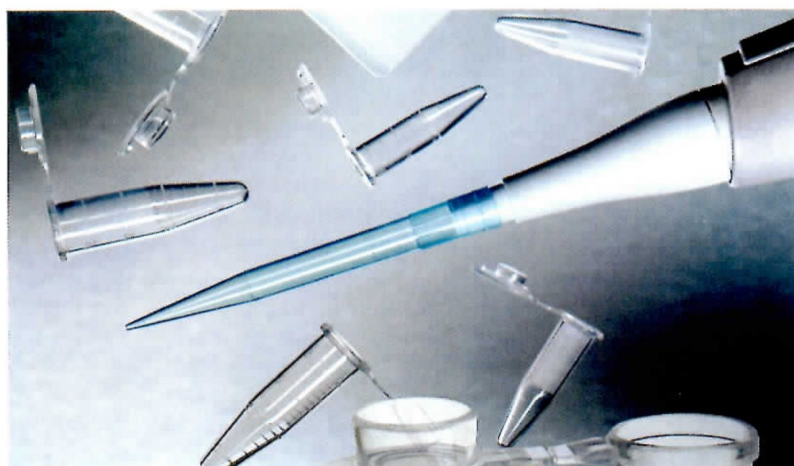
Item	Description	Qty/Pk	Sterile	Qty/Cs
3034-335	Natural, Bag	500	✓	5,000

Item	Description	Qty/Pk	Sterile	Qty/Cs
2910-840	Opener, Teal	5		50

SuperSpin™ Microcentrifuge Tubes with EasyOpen Caps

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 make this tube easy to open and can help reduce the potential for repetitive strain injury. The cap also includes a special 90° hinge that self-aligns the cap and 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 pierceable caps and a side writing surface. Autoclavable and freezable. In resealable bags. Graduated.

The ability to extract DNA from samples and then amplify that DNA with reliable results is an important part of lab work. SuperSpin™ tubes were 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.

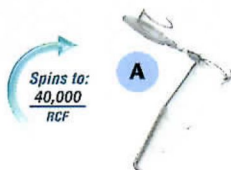


- Ultra high centrifuging to 40,000 x G**
- Optically clear resin
- Resin will not interfere with DNA or PCR*
- For Phenol/Chloroform vortexing
- Reduced Thumb Force



1.5mL SuperSpin™ Polypropylene Micro Centrifuge Tubes

with flat caps, writing surface and graduations. Resealable bags.



Item	Description	Qty/Pk	Qty/Cs
3016-870	Natural	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
3016-871	Amber (for light sensitive samples)	500	5000
3016-879	Rainbow	500	5000

Rainbow package includes:

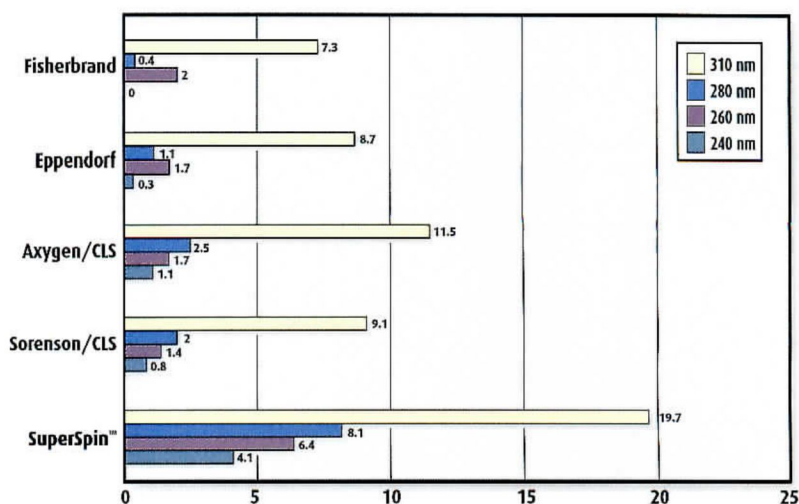
100 red, blue, green, yellow, orange in separate 100 tube bags



PCR*/DNA Range Light Transmission

The chart below 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.



** Maximum G-force can be affected by organic solvents, multiple spin cycles, or low temperature storage. See chart on page 66.

* PCR is a patented process of Hoffman-LaRoche. Use of the PCR process requires a license.

labcon

www.labcon.com

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CENTRIFUGATION

SuperSpin™ Microcentrifuge Tubes with EasyOpen Caps

SuperSpin™ tubes were developed by selecting all the best features of existing microcentrifuge 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 resin we know you can use these tubes for DNA extraction without worrying about contaminating your sample.

Extractables of Microcentrifuge 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.

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

Brand E

240 nm	260 nm	280 nm	310 nm
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™

SuperSpin™ features:



Bottom designed with no sharp points to tear gloves



Beveled 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.



Cap designed to be easy to open and close.

Microcentrifuge 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.

KEY:



No change

Minor bulging or bending

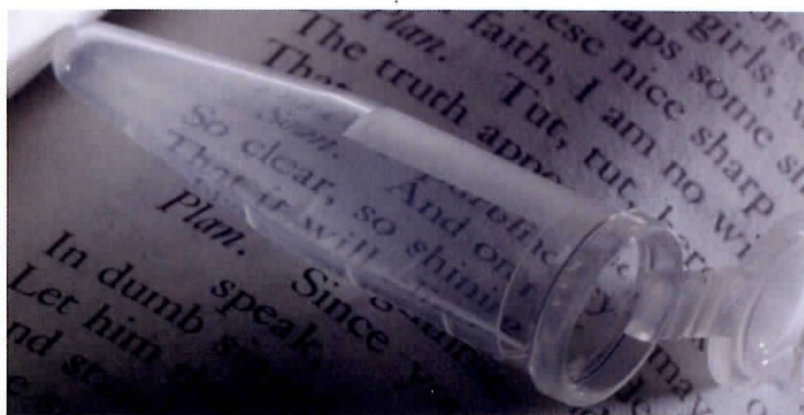
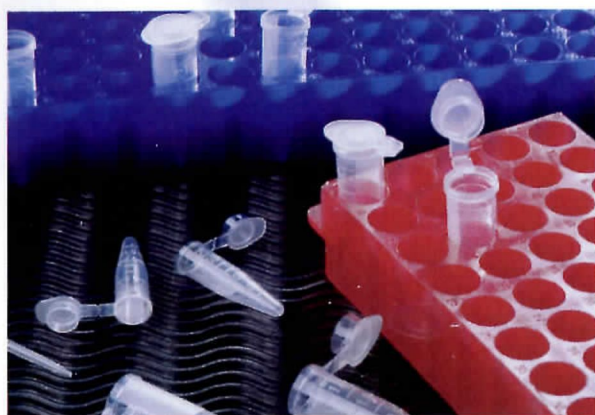
Cracking or minor cracking

Major bulge or deformation

Break

Test	Reaction	Brand F	Brand E	Brand A	Brand S	SuperSpin™
30,000 4°C 10 minutes		12	12	12	12	12
35,000 18°C 10 minutes		12	12	12	12	12
40,000 18°C 10 minutes		6			1	
		1			1	12
		5	12		9	
				12	1	
42,500 18°C 10 minutes		1				
					2	12
		11	12		9	
					1	
45,000 18°C 10 minutes						
						12
		12	8		1	
			1			
50,000 18°C 10 minutes						
						10
		10				1
50,000 18°C 10 minutes						
		2				1

SuperClear™ Microcentrifuge Tubes with Boilproof† Caps



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 sustainable, 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. And these tubes are designed to stay closed during boiling to protect your sample.

Available in 0.65mL and 1.7mL sizes that fit all standard and high capacity rotors. 0.65 ml tubes can also be used in many PCR* Thermocyclers. Tubes have flat pierceable caps, a side writing surface and graduations. Autoclavable and freezable.

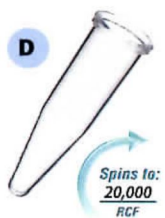
0.65mL SuperClear™ Polypropylene Micro Centrifuge Tubes with flat caps, writing surface and graduations. Resealable bags.



1.7mL SuperClear™ Polypropylene Micro Centrifuge Tubes with flat caps, writing surface and graduations. Resealable bags. Not for vortexing.

Now spins faster

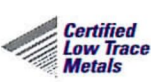
1.7mL SuperClear™ Polypropylene Micro Centrifuge Tubes without caps. Resealable bags. Not for vortexing.



Now spins faster

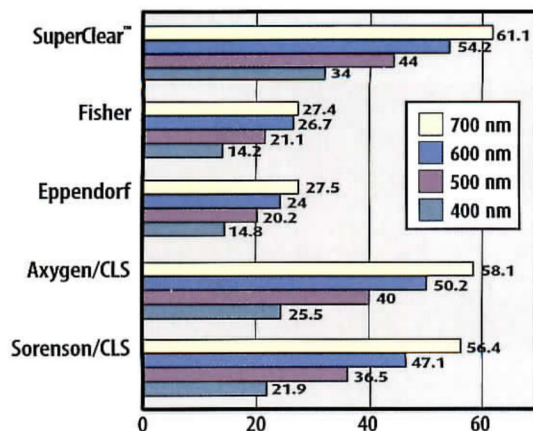
Item	Description	Qty/Pk	Qty/Cs
3023-800	Natural	1000	10,000
3023-804	Red	1000	10,000
3023-803	Orange	1000	10,000
3023-802	Yellow	1000	10,000
3023-808	Green	1000	10,000
3023-807	Blue	1000	10,000
3023-806	Purple	1000	10,000
3023-809	Rainbow	1000	10,000

Item	Description	Qty/Pk	Qty/Cs
3013-870	Natural	500	5,000
3013-874	Red	500	5,000
3013-873	Orange	500	5,000
3013-872	Yellow	500	5,000
3013-878	Green	500	5,000
3013-877	Blue	500	5,000
3013-876	Purple	500	5,000
3013-879	Rainbow	500	5,000



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.

Rainbow pack includes: Red, Yellow, Orange, Green and Blue in separate bags.



Visible Range Light Transmission

This chart shows the results of a study comparing the visible 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.

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



† When boiled in water bath.

* PCR is a patented process of Hoffman-LaRoche. Use of the PCR process requires a license.

CENTRIFUGATION

Microcentrifuge Tube Selection Guide

Microcentrifuge tubes are used in the lab everyday. You use dozens of them. You never think about them, you shouldn't have to.

We know that you expect a lot from one of the most necessary items in your lab. What you put into them is your time, your ideas, and your passion. We spin test thousands of tubes every day. We use resins that are clearer and cleaner, we run a series of nuclease tests on every production lot of tubes after they are packaged not just after they are molded. We test thoroughly as part of our regular quality control process because we understand how important your work is.

Use this chart to help choose the right tube for your application. Look for letters **A** next to the products on the following pages for references to this chart.



	STYLE:	A	B	C	D	E	F	G	H	I
PROCESS	PRODUCT #	3016	3023	3013	3033	3025	3039	3034	3046	3012
DNA extraction		◆				◆	◆	◆		
DNA quantification		◆	◆	◆						
PCR* thermo cycling			◆	◆						
PCR* prep		◆	◆	◆	◆		◆	◆	◆	◆
Vortexing		◆	◆				◆	◆	◆	
Boiling			◆	◆			◆	◆		◆
Freezing to -80° 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		◆	◆							
Sterile processing		◆				◆		◆	◆	◆
Single use procedure		◆		◆						
Phenol/Chloroform extraction		◆						◆		





SuperClear™ Screw Cap Microcentrifuge Tubes with Universal Fit Caps

- Ultra clear resin
- 0.5, 1.5, 2.0mL sizes
- Resealable bags
- Low profile caps with universal threads



SuperClear™ Screw Cap Microcentrifuge 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. Caps and tubes are autoclavable and freezable. Sterile tubes are radiation sterilized. Tubes can be centrifuged to 20,000 RCF. 1.5mL, 2.0mL, and Freestanding 2.0mL tubes include etched graduations. 0.5mL and Freestanding 0.5mL and 1.5mL are not graduated but have smooth outer walls for ease of labeling.



Microcentrifuge Tubes with Natural Color Caps in Separate Resealable Bags

500 tubes, 500 caps/package.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3631-870	0.5mL	500		5,000
3641-870	0.5mL freestanding	500		5,000
3611-870	1.5mL*	500		5,000
3651-870	1.5mL freestanding	500		5,000
3661-870	2.0mL*	500		5,000
3621-870	2.0mL freestanding*	500		5,000

Sterile Microcentrifuge Tubes with Attached Natural Color Caps

50 tubes in each sterile bag, 10 bags/package.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3631-875	0.5mL	500	✓	5,000
3641-875	0.5mL freestanding	500	✓	5,000
3611-875	1.5mL*	500	✓	5,000
3651-875	1.5mL freestanding	500	✓	5,000
3661-875	2.0mL*	500	✓	5,000
3621-875	2.0mL freestanding*	500	✓	5,000

Microcentrifuge Tubes Only in Resealable Bags

500 tubes/bag

Item	Description	Qty/Pk	Sterile	Qty/Cs
3630-870	0.5mL	500		5,000
3640-870	0.5mL freestanding	500		5,000
3610-870	1.5mL*	500		5,000
3650-870	1.5mL freestanding	500		5,000
3660-870	2.0mL*	500		5,000
3620-870	2.0mL freestanding*	500		5,000

Caps Only in Resealable Bags

500 caps/bag

Item	Description	Qty/Pk	Sterile	Qty/Cs
3600-870	Natural	500		5,000
3600-874	Red	500		5,000
3600-873	Orange	500		5,000
3600-872	Yellow	500		5,000
3600-878	Green	500		5,000
3600-877	Blue	500		5,000
3600-876	Purple	500		5,000
3600-871	White	500		5,000
3600-879	Assorted	500		5,000

* Includes etched graduations and writing surfaces.

CENTRIFUGATION

SuperClear™ Screw Cap Microcentrifuge Tubes with Silicone O-Ring Caps



SuperClear™ Screw Cap Microcentrifuge Tubes are ideal for any sample processing application. Excellent for frozen storage or when working with hazardous or valuable materials. O-rings are made from silicone to insure a leakproof seal and caps accept color coding inserts. Polypropylene loop caps are available to keep caps tethered to tubes. Sterile tubes are gamma irradiated and are packed 50 in a bag and 10 bags in a pack. Tubes and O-ring caps are autoclavable. Tubes can be centrifuged to 20,000 RCF.

With Silicone O-Ring Caps

Tubes with Clear Caps in Separate Resealable Bags

500 tubes, 500 caps
in separate bags per pack

Item	Description	Qty/Pk	Sterile	Qty/Cs
3634-870	0.5mL	500		5,000
3644-870	0.5mL freestanding	500		5,000
3614-870	1.5mL*	500		5,000
3654-870	1.5mL freestanding	500		5,000
3664-870	2.0mL*	500		5,000
3624-870	2.0mL freestanding*	500		5,000

Sterile Tubes with Attached Clear Caps

50 tubes and caps per bag,
10 bags per pack

Item	Description	Qty/Pk	Sterile	Qty/Cs
3634-875	0.5mL	500	✓	5,000
3644-875	0.5mL freestanding	500	✓	5,000
3614-875	1.5mL*	500	✓	5,000
3654-875	1.5mL freestanding	500	✓	5,000
3664-875	2.0mL*	500	✓	5,000
3624-875	2.0mL freestanding*	500	✓	5,000

Tubes with Clear Loop Style Caps

500 tubes, 500 caps
in separate bags per pack

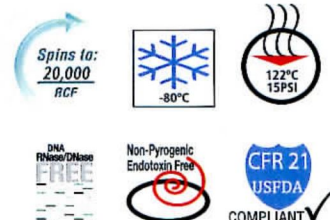
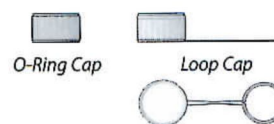
Item	Description	Qty/Pk	Sterile	Qty/Cs
3636-870	0.5mL	500		5,000
3646-870	0.5mL freestanding	500		5,000
3616-870	1.5mL*	500		5,000
3656-870	1.5mL freestanding	500		5,000
3666-870	2.0mL*	500		5,000
3626-870	2.0mL freestanding*	500		5,000

Sterile Tubes with Clear Loop Style Caps

50 tubes and caps per bag,
10 bags per pack

Item	Description	Qty/Pk	Sterile	Qty/Cs
3636-875	0.5mL	500	✓	5,000
3646-875	0.5mL freestanding	500	✓	5,000
3616-875	1.5mL*	500	✓	5,000
3656-875	1.5mL freestanding	500	✓	5,000
3666-875	2.0mL*	500	✓	5,000
3626-875	2.0mL freestanding*	500	✓	5,000

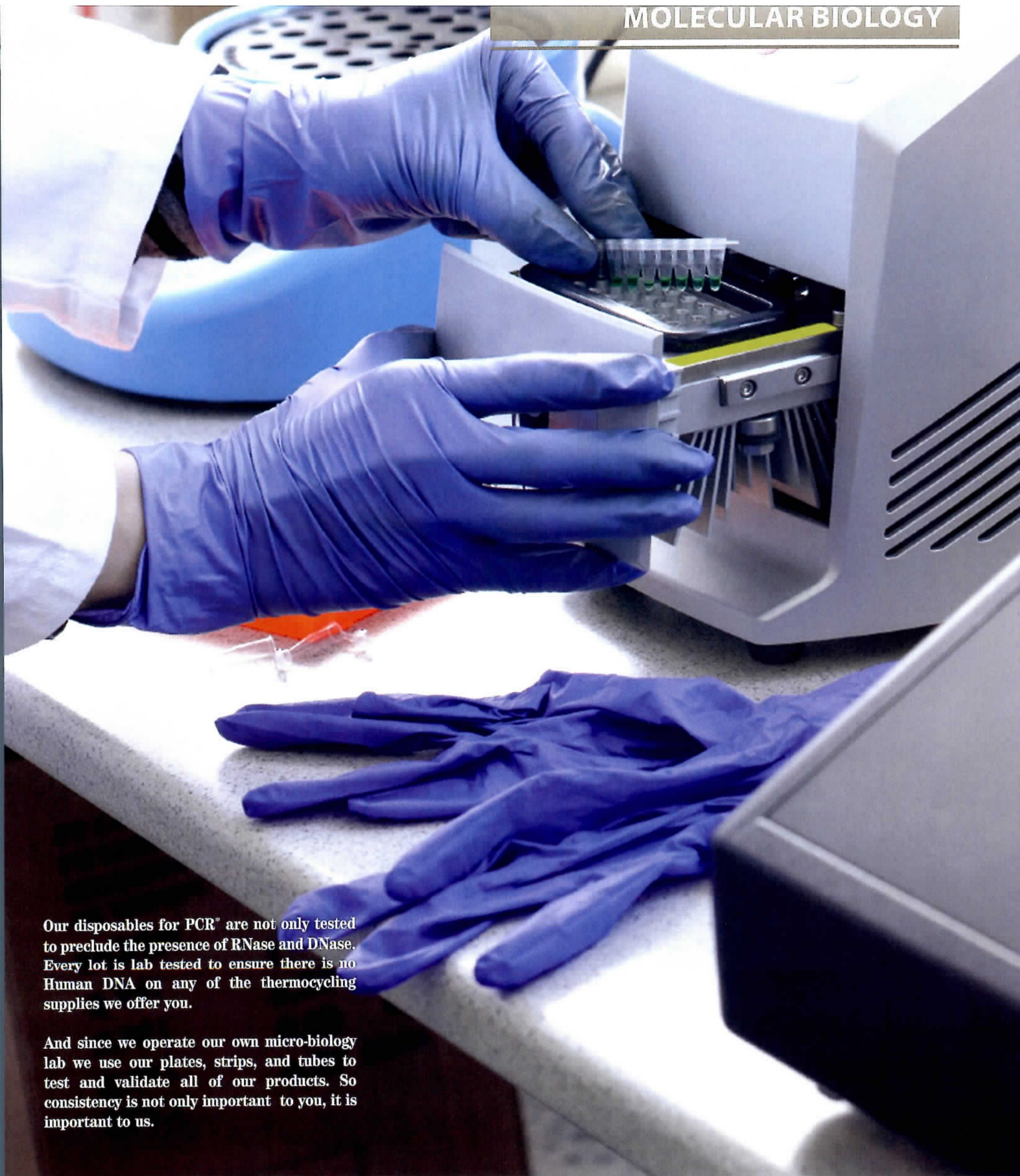
* Includes etched graduations and writing surfaces.



Cap Color Code Inserts 100 per bag, 500 per case

Item	Description	Qty/Pk	Sterile	Qty/Cs
3605-840	Natural	100		500
3605-841	White	100		500
3605-842	Yellow	100		500
3605-843	Orange	100		500
3605-844	Red	100		500
3605-846	Purple	100		500
3605-847	Blue	100		500
3605-848	Green	100		500
3605-849	Assorted	100		500





Our disposables for PCR* are not only tested to preclude the presence of RNase and DNase. Every lot is lab tested to ensure there is no Human DNA on any of the thermocycling supplies we offer you.

And since we operate our own micro-biology lab we use our plates, strips, and tubes to test and validate all of our products. So consistency is not only important to you, it is important to us.

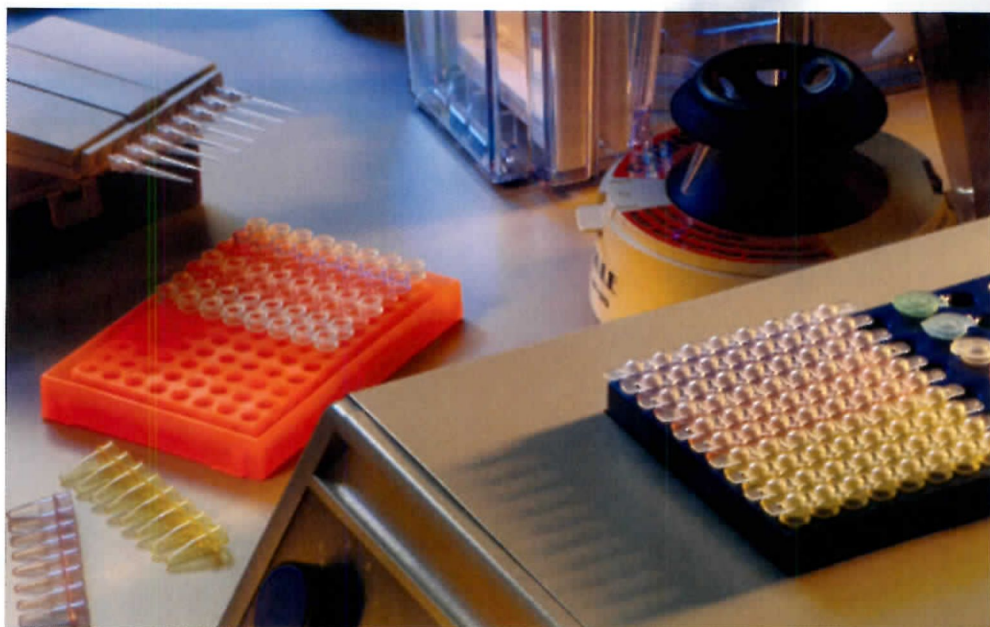
* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.

PurePlus™ PCR* Tubes and Strips

Labcon PCR* tubes, strips and plates are designed to fit many popular thermocyclers including brands like Applied Biosystems, Eppendorf, Thermo Scientific, 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, ATP, and Human DNA. Autoclavable.

PCR* Workstation, see page 91.

SEE COMPATIBILITY
CHARTS
ON PAGES 80-81.



0.2mL PCR* Tubes with Attached Bubble Caps

Item	Description	Qty/Pk	Sterile	Qty/Cs
3934-500	Natural	1000		10,000



0.2mL PCR* Tubes with Attached Flat Caps

Item	Description	Qty/Pk	Sterile	Qty/Cs
3936-500	Natural	1000		10,000



0.2mL PCR* Strips with 8 wells

Item	Description	Qty/Pk	Sterile	Qty/Cs
3940-550	Natural	125		1,250



0.2mL PCR* Strips with 12 wells

Item	Description	Qty/Pk	Sterile	Qty/Cs
3950-540	Natural	80		800



0.2mL Strips with 8 wells with Individually Attached Bubble Caps

Item	Description	Qty/Pk	Sterile	Qty/Cs
3925-550	Natural	120		1,200



0.2mL PCR* Tubes with Attached Bubble Caps

Item	Description	Qty/Pk	Sterile	Qty/Cs
3926-550	Natural	125		1,250



0.2mL PCR* Strips and Bubble Strip Caps Natural. Caps in separate bag.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3945-550	8 Wells	125		1,250
3955-540	12 Wells	80		800



Bubble Strip Caps for PCR* Strips Natural.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3942-850	for 8 Wells	125		1,250
3952-540	for 12 Wells	80		800

* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.



Now tested for Adenosine Triphosphate

Our 96 well, 0.2mL PCR* plates are available in styles to fit most popular thermocyclers including Applied Biosystems 9600 and 9700, Bio Rad 1000 Series and others. Autoclavable. Lot tested and certified free of RNase, DNase and Human DNA. Polypropylene.

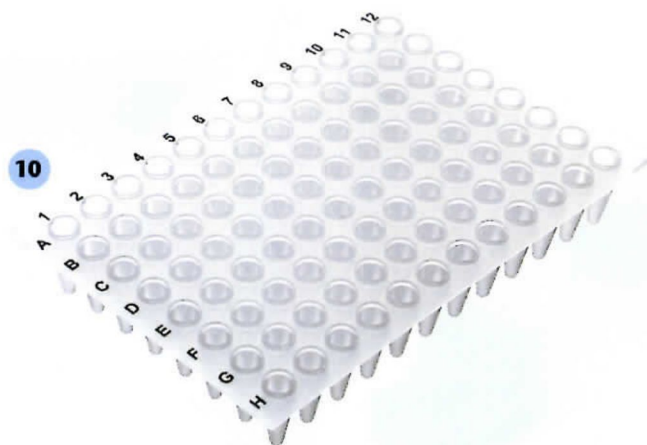


96-Well PCR* Plates

with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3977-520	Natural	10		100

SEE COMPATIBILITY
CHARTS
ON PAGES 80-81.

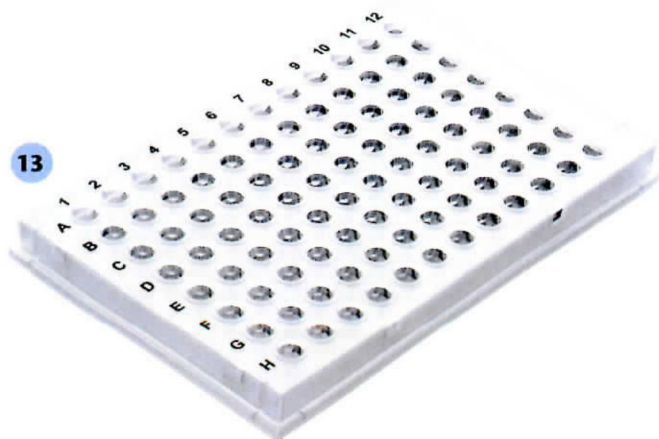


96-Well Low Profile PCR* Plates

with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3971-520	Natural	20		100

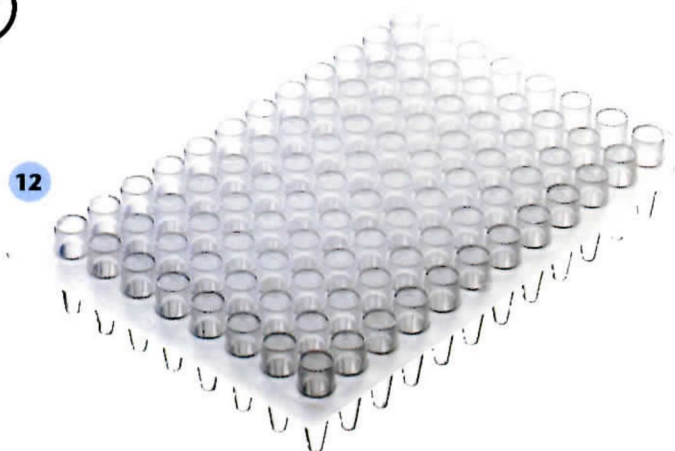
(Low profile plates have smaller wells)



96-Well Skirted PCR* Plates

with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3978-520	Natural	10		100



96 High Well PCR* Plates

(these can be sealed with strip caps on page 63)

Item	Description	Qty/Pk	Sterile	Qty/Cs
3974-520	Natural	10		100

PCR is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.

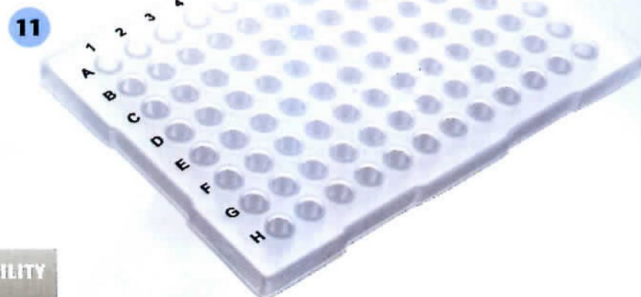
PurePlus™ PCR Plates

DNA tested



96-Well Half Skirt PCR* Plates
with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3973-520	Natural	10		100



96-Well Low Profile Half Skirt PCR* Plates
with printed Alpha Numeric Labeling

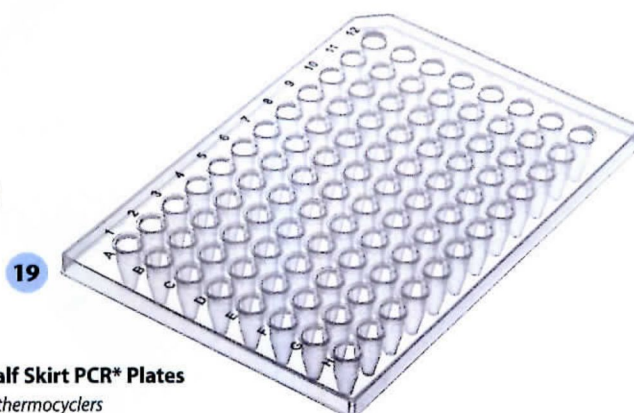
Item	Description	Qty/Pk	Sterile	Qty/Cs
3976-520	Natural	10		100

(Low profile plates have smaller wells)



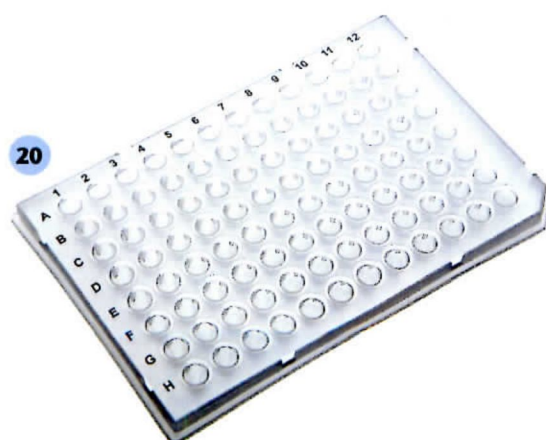
96-Well Half Skirt PCR* Plates, Raised Lip
with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3979-520	Natural	10		100



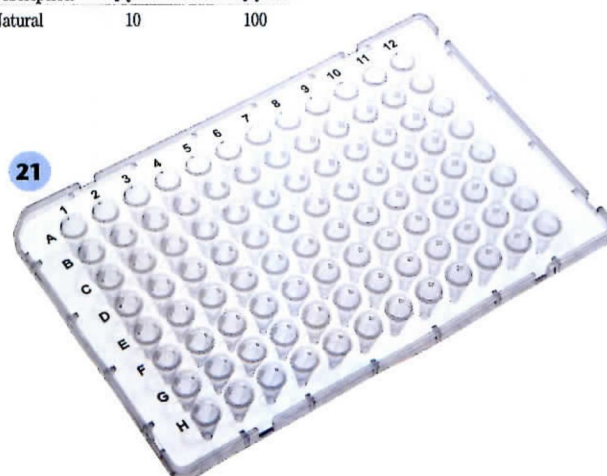
96-Well Half Skirt PCR* Plates
for ABI style thermocyclers

Item	Description	Qty/Pk	Sterile	Qty/Cs
3972-520	Natural	10		100



96-Well PCR* Plates for Roche® Lightcycler® 480
with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3962-520	Natural	10		100



96-Well PCR* Plates for ABI® Fast 7500
with printed Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3961-520	Natural	10		100

* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.



Now tested for Adenosine Triphosphate

384-Well PCR* Plates

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



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384-Well Skirted PCR* Plates
with molded Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3983-520	for most Thermocyclers	10		100



24

384-Well Skirted PCR* Plates
with molded Alpha Numeric Labeling

Item	Description	Qty/Pk	Sterile	Qty/Cs
3984-520	for ABI® Thermocyclers	10		100

SEE COMPATIBILITY
CHARTS
ON PAGES 78-79.



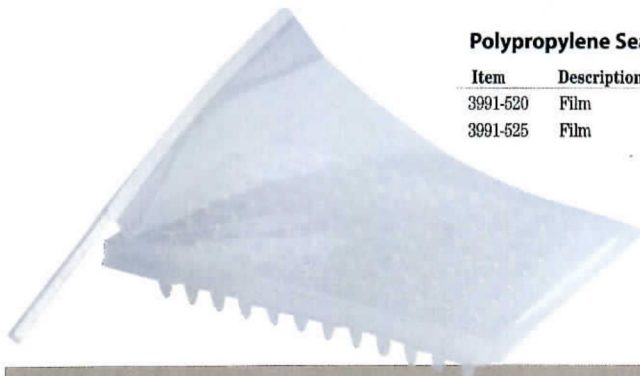
96-Well Silicone Sealing Mats Natural.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3992-520	Round Wells	5		50
3994-520	Square Wells	5		50



Polypropylene Sealing Film

Item	Description	Qty/Pk	Sterile	Qty/Cs
3991-520	Film	100		1,200
3991-525	Film	100	✓	1,200



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.

PCR* Reaction Strips and Caps

These 4 well ultra clear reaction strips fit the Qiagen® Rotorgene®. They include 250 4 well strips and 250 separate strip caps per package. RNase/Dnase free. Made of polypropylene.

4 Well PCR* Reaction Strips and Caps for Qiagen® RotorGene®

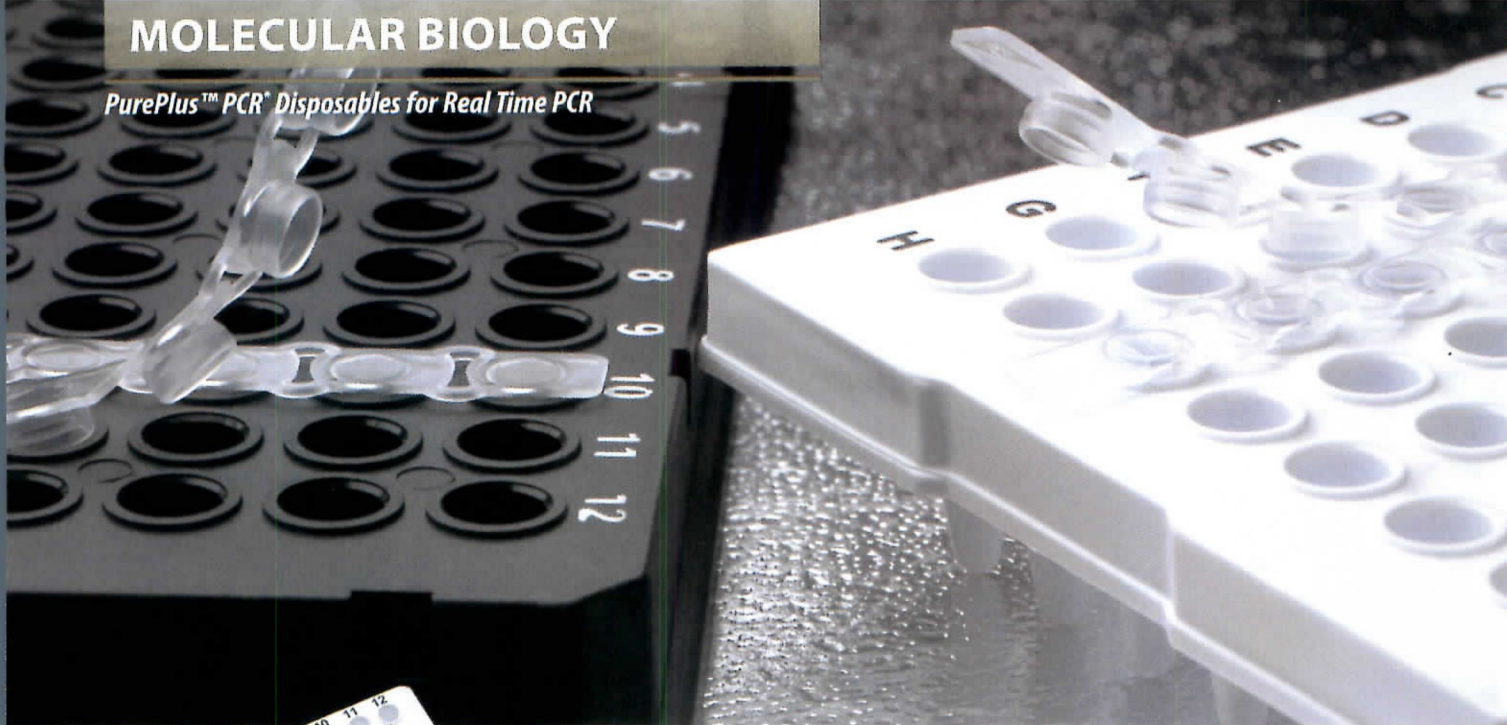
Item	Description	Qty/Pk	Sterile	Qty/Cs
3920-560-000	Natural	250		2,500



23

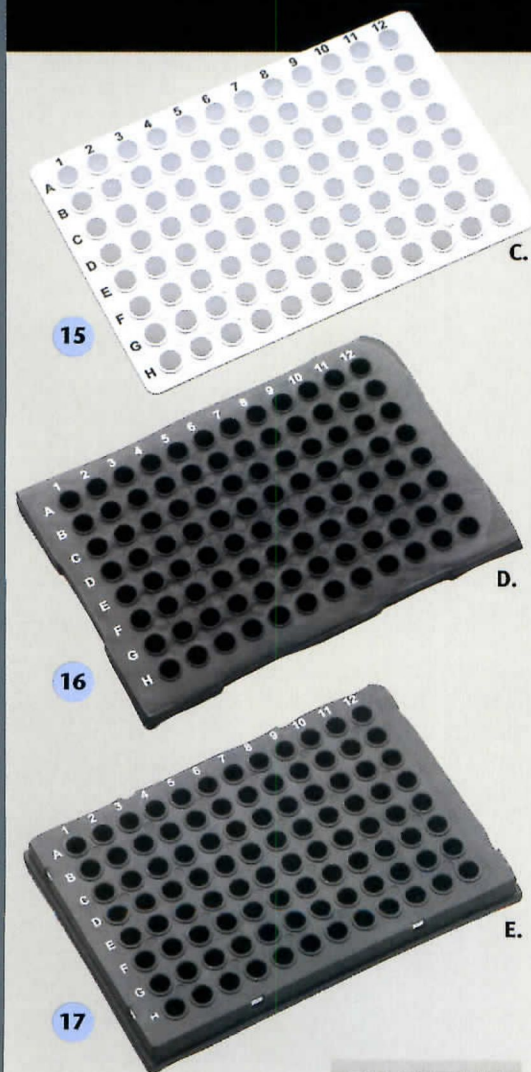
* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.

PurePlus™ PCR Disposables for Real Time PCR

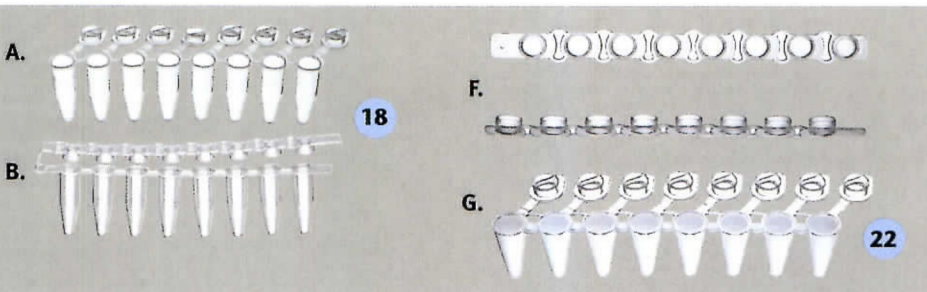


Real Time PCR Disposables

These disposables for Real Time PCR* thermocycling fit major thermocyclers that require an optically clear cover or cap to ensure proper functioning. Available as strips or in either white or black plates for those machines that use fluorescence to quantify processing. Plates are available in flat, skirted or semi skirted versions with dark printed alpha numeric references. Can be sealed with optically clear strip caps. Made of polypropylene.



SEE COMPATIBILITY
CHARTS
ON PAGES 78-79.



A. 8-Well Strips
with optically clear flat caps

Item	Description	Qty/Pk	Sterile	Qty/Cs
3928-550	0.2mL Low Profile Strip	120		1200
3927-550	0.2mL Strip	120		1200

B. 8-Well Strips
w/optically clear flat cap strip

Item	Description	Qty/Pk	Sterile	Qty/Cs
3929-550	0.2mL Strip	125		1250

**C. 0.2mL 96-Well Flat
Real Time PCR Plates**

Item	Description	Qty/Pk	Sterile	Qty/Cs
3967-521	Black opaque	10		100
3967-520	White opaque	10		100

**D. 0.2mL 96-Well Plates
with Half Skirts for ABI® style
thermocyclers**

Item	Description	Qty/Pk	Sterile	Qty/Cs
3963-521	Black opaque	10		100
3963-520	White opaque	10		100

**E. 0.2mL 96-Well Skirted
Real Time PCR Plates**

Item	Description	Qty/Pk	Sterile	Qty/Cs
3968-521	Black opaque	10		100
3968-520	White opaque	10		100

**F. Optically Clear Strip
Caps for Real Time PCR**

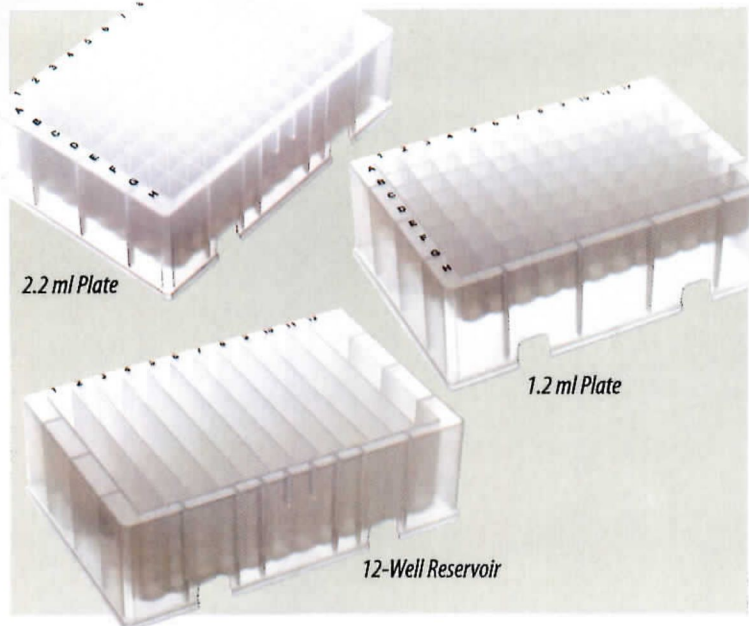
Item	Description	Qty/Pk	Sterile	Qty/Cs
3951-850	0.2mL Strip	125		1250

**G. 8-Well Optical Real Time Strips
with Clear attached Caps and
opaque white wells**

Item	Description	Qty/Pk	Sterile	Qty/Cs
3921-550	1.0mL Strip	120		1200

PCR is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.





Deep Well Plates and Reservoirs

These heavy deep well plates feature printed alpha numeric labeling and smooth inside surfaces to ensure that all of your samples can be pipetted. They are designed to be manipulated by robots and can be autoclaved and sealed using film or mats. Freezable -80°C.

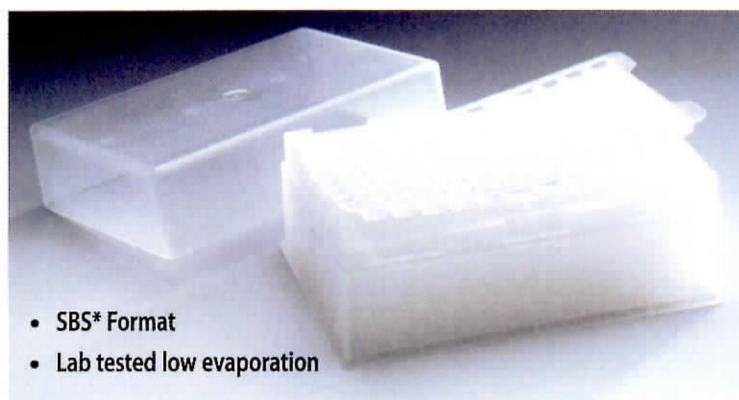
96-Well Polypropylene Plates Natural.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3905-520	2.2mL	10		100
3906-520	1.2mL	10		100



12-Well Polypropylene Reservoir

Item	Description	Qty/Pk	Sterile	Qty/Cs
3907-520	22mL	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 ensures 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 -80°C.

96 Square Well Polypropylene Plate System

Item	Description	Qty/Pk	Sterile	Qty/Cs
3900-520	Reservoir	10		10
3902-520	Reservoir with lid	10		10



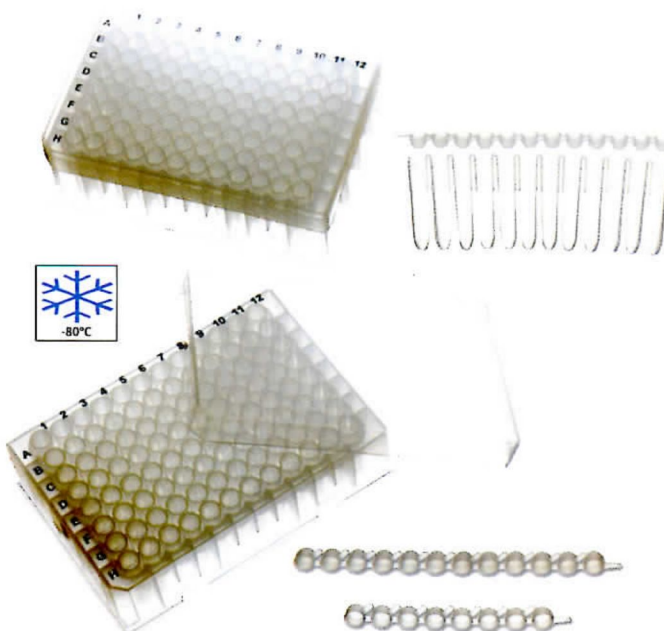
** 2.2 ml with silicone mat in place

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 (-80°C). Made of polypropylene. Separate polyethylene closure strips are available for tubes. Available sterile and non sterile.

Item	Description	Qty/Pk	Sterile	Qty/Cs
3910-540	96 Individual Tubes, Racked	10		100
3910-545	96 Individual Tubes, Racked, Sterile	10	✓	100
3911-540	96 8-Strip Tubes, Racked	10		100
3911-545	96 8-Strip Tubes, Racked, Sterile	10	✓	100
3912-540	96 12-Strip Tubes, Racked	10		100
3912-545	96 12-Strip Tubes, Racked, Sterile	10	✓	100
3913-850	8-Strip Tube Closures	125		1,250
3913-855	8-Strip Tube Closures, Sterile	125	✓	1,250
3914-840	12-Strip Tube Closure	80		800
3914-845	12-Strip Tube Closure, Sterile	80	✓	800
3915-800	Individual Tubes, Loose	1000		10,000
3916-800	8-Strip Tubes, Loose	125		1,250
3917-800	12-Strip Tubes, Loose	80		800

* Society for Biomolecular Screening



PCR* DISPOSABLES COMPATIBILITY CHART

Numbers relate to PCR products on p. 72-75,
and to Real Time PCR products on p. 76.
▼ = Real Time PCR products
● = Genetic Analyzer products

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	16	17	17	18	19	20	21	22	23	24
BECKMAN COULTER	3934	3936	3925	3926	3945	3940	3955	3950	3977	3971	3973	3976	3979	3974	3978	3983	3967-520	3963-520	3968-520	3968-521	3927	3972	3962	3961	3921	3920	3984
BIONEER																											
BIOXIA																											
CEQ																											
Exicycler																											
Genesys																											
Hydrex																											
PTC-100																											
PTC-200																											
PTC-225																											
My Mini																											
MyCycler																											
DNA Engine																											
DNA Engine Dyad																											
DNA Engine Tetrad																											
C1000																											
S1000																											
Opticon, Opticon 2																											
Chromo-4																											
CFX96																											
CFX384																											
Base																											
Mastecycler																											
Mastecycler Personal																											
Mastecycler Gradient																											
ep Gradient																											
ep Gradient S																											
ep 384																											
EP Realplex, 2, 2S, 4, 4S																											
Mastecycler Nexus																											
Mastecycler Pro																											
Mastecycler Pro																											
MegaBACE 1000																											
MegaBACE 4000																											
GS1																											
GS2																											
GS4																											
GS482																											
Singleblock																											
Twinblock																											
DeltaCycler																											
DeltaCycler II																											
Powerblock																											
2400																											
2700																											
3100																											
3130																											
3700																											
3730																											
7000																											
7700																											
7900HT																											
7300																											
7500																											
7500 Fast																											
Step One																											
Step One Plus																											
9600																											
9700																											
Veriti 96 Well 0.2ml																											
Dual 384																											
Prism 310																											
Prism 3100																											
3130 XL																											
3700																											
Prism 3730 XL																											
Lightcycler																											

* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.



[illegible]

The information on these charts 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.

SuperClear™ Culture Tubes and Caps

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

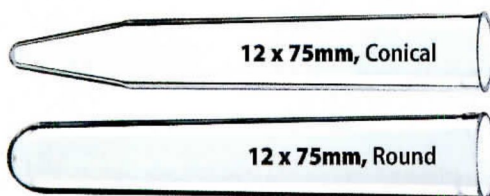
Polypropylene tubes are autoclavable to 122°C and freezable to -80°C. Polystyrene tubes are not autoclavable but have a nominal temperature range between 90°C and -40°C. Polyethylene caps are not autoclavable, but are available pre-sterilized with many of the tube packages.

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

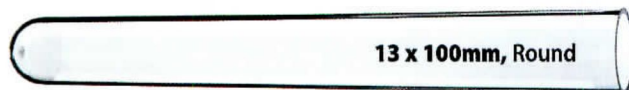
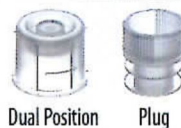
Non-Pyrogenic



12x75 mm Round Bottom and Conical tubes with dual position or plug style caps.



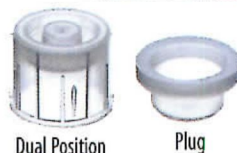
Cap Options:



Cap Option:



Cap Options:



Item	Description	Qty/Pk	Sterile	Qty/Cs
12x75mm Conical Tubes, 4 ml Capacity, without Caps				
3360-800	Polystyrene, Clear, 1000/Bag	1000		1000
3361-800	Polypropylene, Natural, 1000/Bag	1000		1000
3385-335	Polystyrene, Clear, 25/Bag	25	✓	500
3386-335	Polypropylene, Natural, 25/Bag	25	✓	500
12x75mm Round Bottom Tubes, 5 ml Capacity, without Caps				
3325-350	Polystyrene, Clear, 125/Bag	125		1000
3325-355	Polystyrene, Natural, 125/Bag	125	✓	1000
3326-350	Polypropylene, Clear, 125/Bag	125		1000
3326-355	Polypropylene, Natural, 125/Bag	125	✓	1000
3305-800	Polystyrene, Clear, 3000/Bag	3000		3000
3306-800	Polypropylene, Natural, 3000/Bag	3000		3000
3310-800	Polystyrene, Clear, 1000/Bag	1000		1000
3311-800	Polypropylene, Natural, 1000/Bag	1000		1000
3311-802	Polypropylene, Yellow, 1000/Bag	1000		1000
3311-803	Polypropylene, Orange, 1000/Bag	1000		1000
3311-804	Polypropylene, Red, 1000/Bag	1000		1000
3311-806	Polypropylene, Purple, 1000/Bag	1000		1000
3311-807	Polypropylene, Blue, 1000/Bag	1000		1000
3311-808	Polypropylene, Green, 1000/Bag	1000		1000
12x75mm Round Bottom Tubes, 5 ml Capacity, with Separate Dual-Position Caps				
3315-800	Polystyrene, Clear, 1000/Bag	1000		1000
3316-800	Polypropylene, Natural, 1000/Bag	1000		1000
12x75mm Round Bottom Tubes, 5 ml Capacity, attached Dual-Position Caps, Sterile				
3328-355	Polystyrene, Clear, 125/Bag	125	✓	1000
3329-355	Polypropylene, Natural, 125/Bag	125	✓	1000
3335-335	Polystyrene, Clear, 25/Bag	25	✓	500
3336-335	Polypropylene, Natural, 25/Bag	25	✓	500
12x75mm Round Bottom Tubes, 5 ml Capacity, attached Plug-Type Caps, Sterile				
3342-355	Polystyrene, Clear, 25/Bag	25	✓	500
3343-335	Polypropylene, Natural, 25/Bag	25	✓	500
Dual-Position Caps for 12x75mm Tubes				
3300-800	Polyethylene, Clear, 1000/Bag	1000		3000





Labcon tubes heavy walls protect your sample



Other brands of culture tubes have thin walls that crush easily

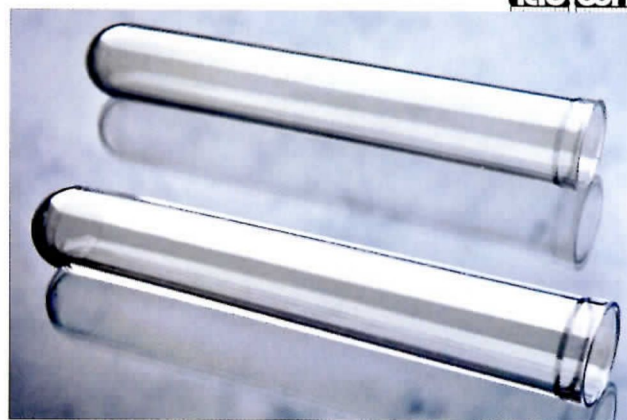


Labcon SuperClear tubes are clear enough to see color gradients

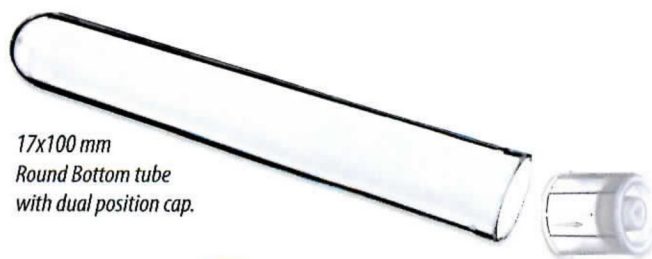
- **Ultra clear resin**
- **Colored tubes available**
- **Durable high grade (U.S.P.) packaging**
- **Thicker walls will not crush**



Item	Description	Qty/Pk	Sterile	Qty/Cs
13x100mm Tubes 8 ml Capacity, without Caps				
3410-800	Polystyrene, Clear, 1000/Bag	1000		1000
3411-800	Polypropylene, Natural, 1000/Bag	1000		1000
3425-350	Polystyrene, Clear, 125/Bag	125		1000
3426-350	Polypropylene, Natural, 125/Bag	125		1000
3425-355	Polystyrene, Clear, 125/Bag	125	✓	1000
3426-355	Polypropylene, Natural, 125/Bag	125	✓	1000
17x100mm Tubes, 14 ml Capacity, without Caps				
3510-800	Polystyrene, Clear, 1000/Bag	1000		1000
3511-800	Polypropylene, Natural, 1000/Bag	1000		1000
3525-355	Polystyrene, Clear, 125/Bag, Natural	125	✓	1000
3526-355	Polypropylene, Natural, 125/Bag	125	✓	1000
17x100mm Tubes, 14 ml Capacity, with Polyethylene Dual-Position Caps				
3515-800	Polystyrene, Clear, 1000/Bag	1000		1000
3516-800	Polypropylene, Natural, 1000/Bag	1000		1000
3528-355	Polystyrene, Clear, 125/Bag	125	✓	1000
3529-355	Polypropylene, Natural, 125/Bag	125	✓	1000
3535-335	Polystyrene, Clear, 25/Bag	25	✓	500
3536-335	Polypropylene, Natural, 25/Bag	25	✓	500
Plug-Type Caps for 13x100mm and 12x75mm Tubes, Polyethylene				
3302-800	Natural, 1000/Bag	1000		3000
3302-801	White, 1000/Bag	1000		3000
3302-802	Yellow, 1000/Bag	1000		3000
3302-803	Orange, 100/Bag	1000		3000
3302-804	Red, 1000/Bag	1000		3000
3302-806	Purple, 1000/Bag	1000		3000
3302-807	Blue, 1000/Bag	1000		3000
3302-808	Green, 1000/Bag	1000		3000
3302-870	Assorted, 500/Bag	500		3000
Dual-Position Caps for 17x100mm tubes				
3500-800	Polyethylene, Natural, 1000/Bag	1000		1000
Plug-Type Caps for 17x100mm Tubes				
3055-870	Polyethylene, Natural, 500/Bag	500		1000



13x100 mm Round Bottom tubes with dual position and plug-type caps.



17x100 mm Round Bottom tube with dual position cap.



Colored plug-type caps for 13x100 and 17x100 mm tubes

Polypropylene tubes available in colors.



UrineTime™ II 24 Hour Collection System

- **New Two Liter Bottles**
- **Keyed Bottles More Stable**
- **New Package Options**
- **Enables Faster Diagnosis**

Item	Package	Unit	Qty/Cs
4010-110-010	1 Assembled Unit	1	1
4010-420-010	4 Assembled Units	1	4
4010-920-010	5 Sets Ready to Assemble	1	5



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

UrineTime II Solves an Old Problem

A problem 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 package. And UrineTime™ II is perfect for outpatient use so there is no need to ensure compliance through admission.

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



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

C-Pette™

C-Pette™

The C-Pette™ makes delivering sample into test cards and point of care cassettes simple and efficient. Since you don't have to open the primary sample tube any risk of exposure to biohazards is reduced. C-Pette™ is ideal for use with many point of care analyzers such as the Abbott® i-Stat®. You can use the C-Pette™ with any analyzer that requires the delivery of a sample to a test cartridge.

Item	Package	Unit	Qty/Cs
7630-500	C-Pette, 5 boxes/100	100	500
7630-540	C-Pette, 1 box/100	100	100

Using C-Pette

Step 1. Grasp the primary blood collection tube by the plastic skirt covering the rubber stopper and insert the metal cannula thru the stopper.

Step 2. Re-suspend cells just prior to dispensing by holding the tube by the plastic skirt and inverting gently as needed.

Step 3. Place the C-Pette dropper tip into the cassette loading port.

Step 4. Push down and release to completely fill cassette reservoir. If a larger sample volume is required, repeat push and release of tube.



i-STAT is a registered trademark of the Abbott Group of Companies



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 blood collection tubes. A small opening allows you to dispense a sample without removing the Tip Top cap so you can prepare smears on slides or dispense into reagent wells or microcentrifuge tubes safely.

- 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.

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. The integral porous polyethylene filter efficiently separates serum and can also be used as a reagent blender.



- Fits standard 13 x 100 and 16 x 100 collection tubes
- With integral filters for prep work

Item	Description	Qty/Pk	Qty/Cs
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

Security Container

- **Convenient** – caps thread and lock into place.
- **Safe** – caps can't be opened once closed with wrench.
- **Secure** – thick walls prevent loss of sample from breakage or dropping.

Security Containers are designed to provide secure and reliable tamper-proof seals for specimens in transit or storage. After specimen collection the screw cap is tightened first by hand, then by the special wrench, which engages teeth on the lid's rim to create a locked and leakproof seals.

To access the specimen for testing procedures, large or small sample spouts may be cut with scissors or pierced with a syringe. Spouts can be resealed with the large or small plugs, and returned to storage for further testing.

The impact-resistant, durably constructed, and pressure-resistant seal offers excellent protection during handling and transport. Container shape and size make them safe for use with pneumatic tube systems.

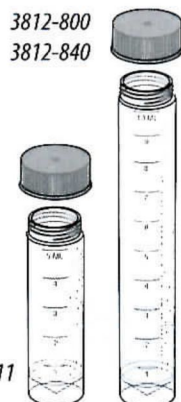
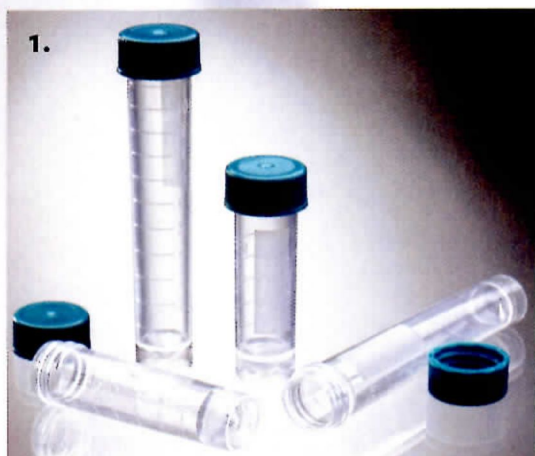
Non-reactive polyethylene resin.



Item	Package	Qty/Pk	Qty/Cs
4041-440	Individually wrapped	100	100
4040-440	Bulk pack	100	100
4043-440	Wrench	1	1



Special tightening wrench locks caps securely



5 ml and 10 ml Sample Tubes

Leakproof freestanding mailing tubes with screw caps feature graduations at 1 ml 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 (122°C) and lab tested and certified to the IATA 95kPa standard for safe shipping of samples.

3812-800
3812-840
3811
Certified to IATA 95kPa Standard

30 ml Sample Tubes

These freestanding sample and centrifuge tubes include permanent molded graduations and easy to label white caps. Made of polypropylene. Tubes and caps are autoclavable (122°C). Sterile tubes are radiation sterilized by validated (ISO) process.



Sample Vials

For Cell Counters or Dilutions

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. Manufactured in a clean environment.

Sectioned box

1. 5mL and 10mL Sample Tubes with screw cap

Polypropylene

Item	Package	Qty/Pk	Sterile	Qty/Cs
3811-800	5mL tube, 500/bag	500		1000
3812-800	10mL tube, 500/bag	500		1000
3812-840	10mL tube, 50/bag	50		1000
3811-345	5mL tube, 50/bag	50	✓	500
3812-345	10mL tube, 50/bag	50	✓	500

2. 30mL Sample Tubes with screw cap

Polypropylene

Item	Package	Qty/Pk	Sterile	Qty/Cs
3096-340	50/bag, 10 bags/Case	50		500
3096-345	50/bag, 10 bags/Case	50	✓	500
3096-870	Bulk	500		500

3. Sample Vials

Polystyrene

Item	Package	Qty/Pk	Sterile	Qty/Cs
2030-550	144/Sectioned box, 5 Box/Cs.	144		720
2025-800	Bulk	1000		1000

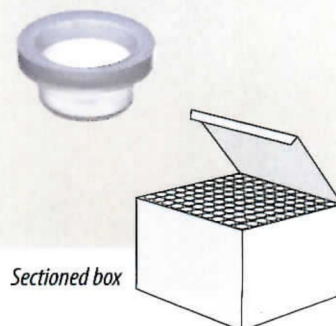
4. 15mL Urine Centrifuge Tubes

Item	Package	Qty/Pk	Sterile	Qty/Cs
3060-540	Polystyrene, 100/box	100		1000
3061-540	Polypropylene, 100/box	100		1000
3050-870	Polystyrene, Bulk	500		1000
3051-870	Polypropylene, Bulk	500		1000
3055-870	Plug-style caps, Polyethylene	500		1000

4.

Urine Centrifuge Tubes

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



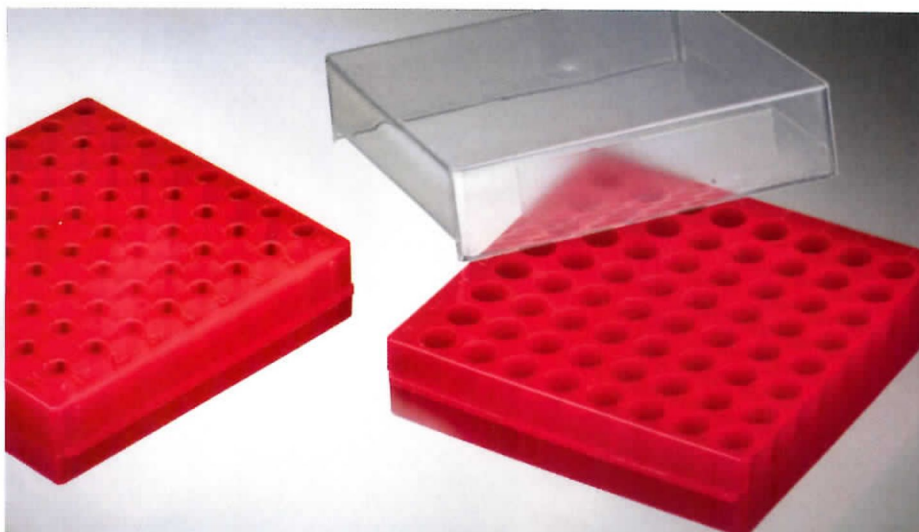
Sectioned box



64-Place Reversible Rack for Micro Tubes

A smaller version of the 96-place rack, this 64-place rack fits into popular freezer racks. Use instead of cardboard 5¼" square racks. These racks hold 0.5mL micro tubes on one side and 1.5mL or 2.0mL tubes on the other side. Clear lid is included. Autoclavable and freezable. Made of polypropylene. Assorted color package includes red, orange, yellow, green, blue.

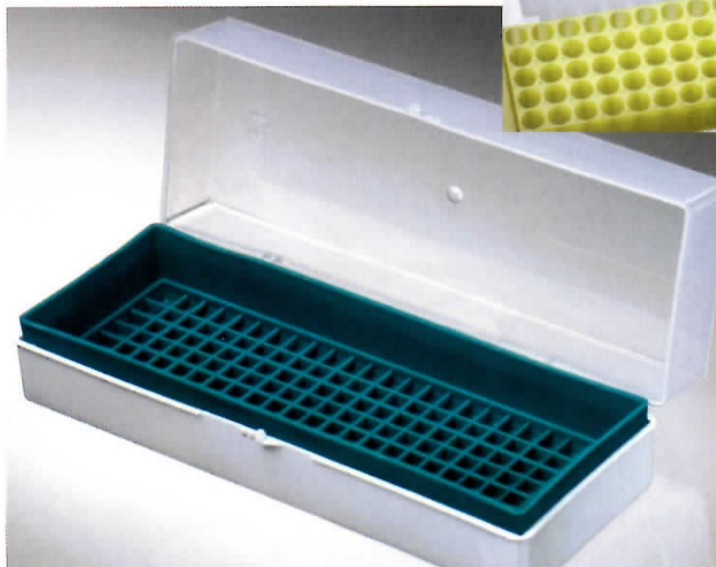
Item	Package	Qty/Pk	Qty/Cs
2550-220	Natural, with lid	5	5
2550-229	Assorted Colors, with lid	5	5



80-Place Racks and Storage Boxes

For use with 1.5mL and 2.0mL micro centrifuge tubes and 2.0mL cryo-vials. Racks are used for bench work and the Gilson® FC-80 fraction collector. Rack and storage box are fully autoclavable (122°C) and freezable (-80°C). Made of polypropylene.

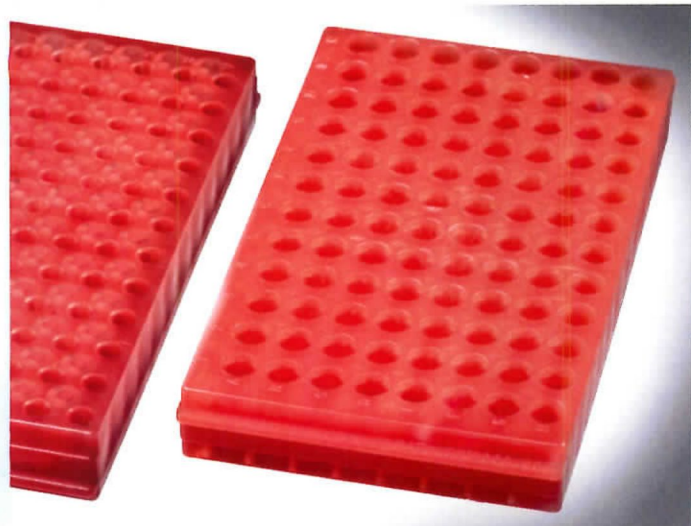
Item	Package	Qty/Pk	Qty/Cs
2601-220	Hinged Storage Box	5	50



Item	Package	Qty/Pk	Qty/Cs
2600-220	Natural	5	5
2600-224	Red	5	5
2600-223	Orange	5	5
2600-222	Yellow	5	5
2600-228	Green	5	5
2600-227	Blue	5	5
2600-226	Purple	5	5
2600-221	Black	5	5



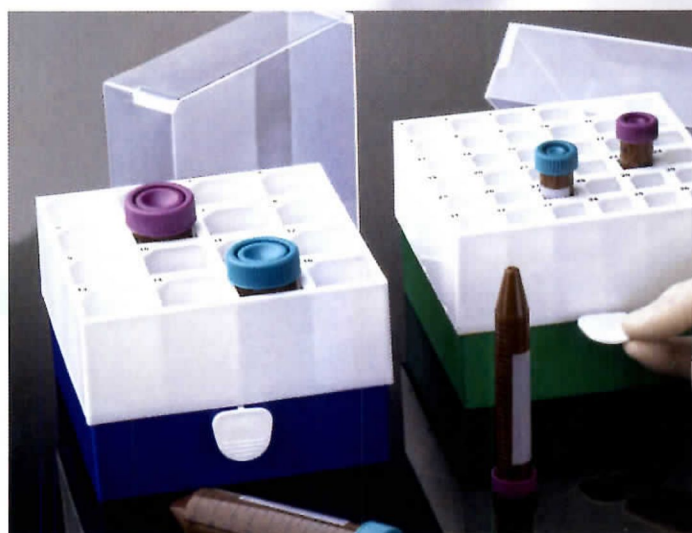
Storage Racks



96-Place Racks and Storage Boxes

For use with 0.5mL, 1.7mL and 2.0mL micro centrifuge tubes and 2.0mL cryovials. These double-sided racks hold 1.7 and 2.0mL tubes on one side and 0.5mL on the reverse side. Rack and clear lid are fully autoclavable (122°C) and freezable (-80°C). Made of polypropylene.

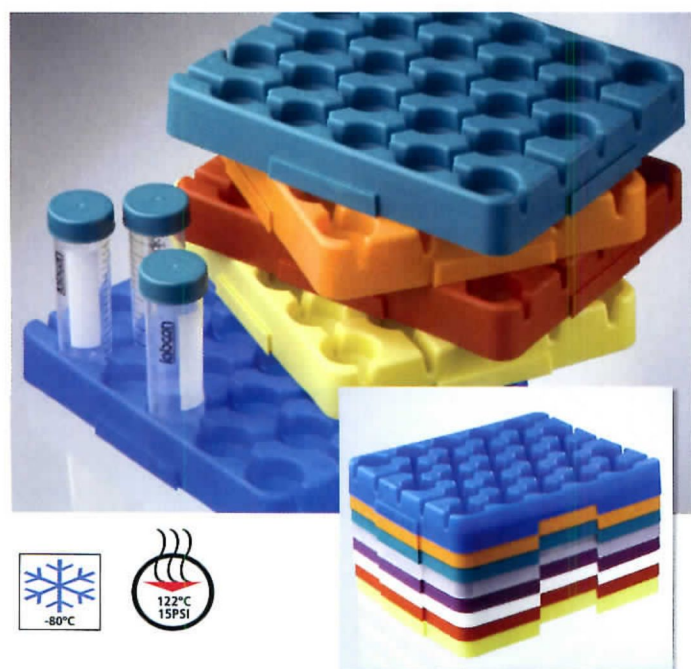
Item	Package	Qty/Pk	Qty/Cs
2500-220	Natural	5	5
2500-224	Red	5	5
2500-223	Orange	5	5
2500-222	Yellow	5	5
2500-228	Green	5	5
2500-227	Blue	5	5
2500-226	Purple	5	5
2500-221	Black	5	5
2500-229	Assorted	5	5
2501-220	Cover, clear	5	5



16-Place or 36-Place Freezer Storage Boxes for 50mL and 15mL Centrifuge Tubes

Designed to hold 50mL or 15mL tubes these boxes are perfect for long term storage of frozen samples. They include a white upper body that can be easily labeled with a lab marker, a numerical reference grid, and a pull tab to make removal from storage racks easier. A clear cover is included. Made of autoclavable (122°C) polypropylene.

Item	Package	Qty/Pk	Qty/Cs
2704-220	Rack, 50mL with Lid	2	2
2703-220	Rack, 15mL with Lid	2	2



Reusable Racks for 50mL and 15mL Centrifuge Tubes

These racks are designed to hold Labcon centrifuge tubes and replace the foam racks you use. Unlike foam racks they are autoclavable and will not fall apart with repeated use. They can be frozen, and they stack together to minimize storage space. Also, they have an interlocking design so you can connect more than one rack and create a handy work station. Autoclavable (122°C) and Freezable (-80°C). These racks are designed for Labcon centrifuge tubes, other tube brands may not fit.

for 15 ml tubes				for 50 ml tubes			
Item	Package	Qty/Pk	Qty/Cs	Item	Package	Qty/Pk	Qty/Cs
2715-220	Natural	5	5	2750-220	Natural	5	5
2715-221	White	5	5	2750-221	White	5	5
2715-222	Yellow	5	5	2750-222	Yellow	5	5
2715-223	Orange	5	5	2750-223	Orange	5	5
2715-224	Red	5	5	2750-224	Red	5	5
2715-226	Purple	5	5	2750-226	Purple	5	5
2715-227	Blue	5	5	2750-227	Blue	5	5
2715-228	Green	5	5	2750-228	Green	5	5
2715-229	Assorted	5	5	2750-229	Assorted	5	5

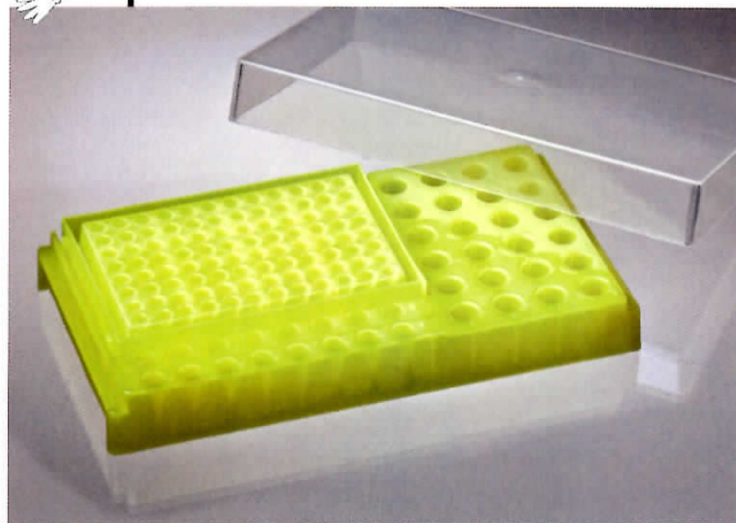
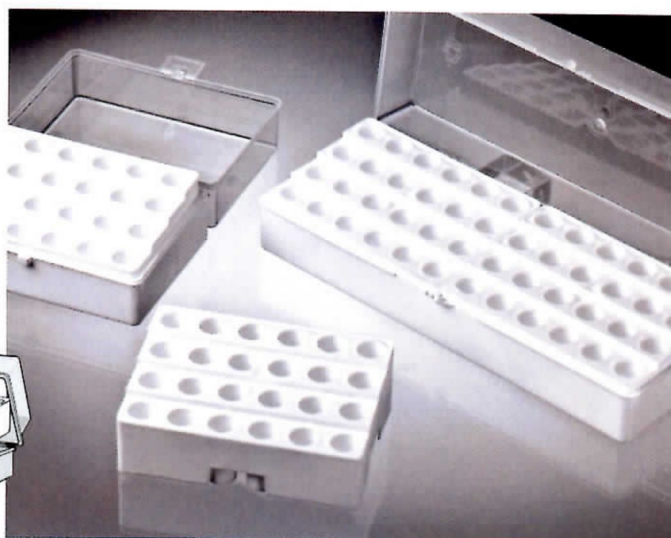
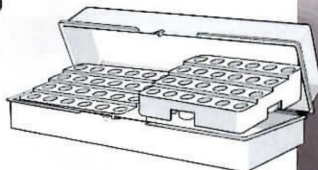
* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.



24- & 48-Place Floating Racks

24-Place and 48-Place micro centrifuge tube and cryo-vial storage system. For 1.5 ml and 2.0 ml tubes. These racks fit into Labcon pipet tip boxes and are made of recycled plastic. Fully autoclavable (122°C) and freezable (-80°C). Stackable racks float in your water bath and can incorporate dry ice for use with frozen samples on the bench.

Item	Package	Qty/Pk	Qty/Cs
3035-500	24-Place Rack, in hinged box	10	100
3036-220	24-Place Rack, without box	10	100
3035-230	48-Place Rack, in hinged box	5	50
1215-120	Hinged box, without rack	5	50



PCR* Workstation and Prep Rack

The PCR* Workstation is perfect for preparing samples for cycling or working with completed procedures. These racks have a separate removable 96-well rack that holds a plate or any combination of strips or tubes. Separate working wells surround the 96-well plate and accommodate 0.5, 1.5 or 2.0mL tubes. Clear lid is included. Available in assortment pack of five colors: red, orange, yellow, green and blue. Autoclavable and freezable. Made of polypropylene. 96-well rack separates from PCR* workstation.

Item	Package	Qty/Pk	Qty/Cs
2720-229	PCR* Workstation, Assorted	5	5



PCR* Storage Racks

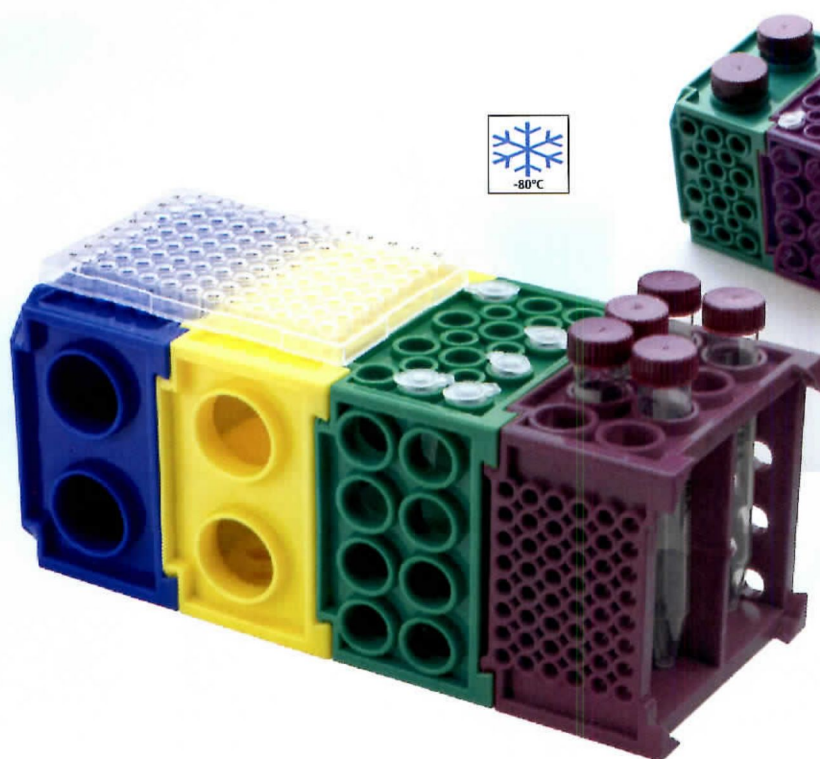
The PCR Storage rack is perfect for storing your samples before cycling or working with completed procedures. These racks will hold tubes, strips, or plates and have a separate snap on lid. In an assortment pack of five colors: red, orange, yellow, green and blue. Autoclavable and freezable. Made of polypropylene.

Item	Package	Qty/Pk	Qty/Cs
2721-229	PCR Storage Rack	5	5



* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.

Storage Racks



Expandable Bench Racks

This expandable 4 part rack system holds, 50ml and 15mL centrifuge tubes, micro centrifuge tubes, PCR tubes and plates, and culture tubes. You can assemble it into the configuration that works for your lab. Autoclavable and Freezable (-80C). Includes Purple, Yellow, Blue and Green sections.

Item	Package	Qty/Pk	Qty/Cs
2706-220	Bench Rack	1	1

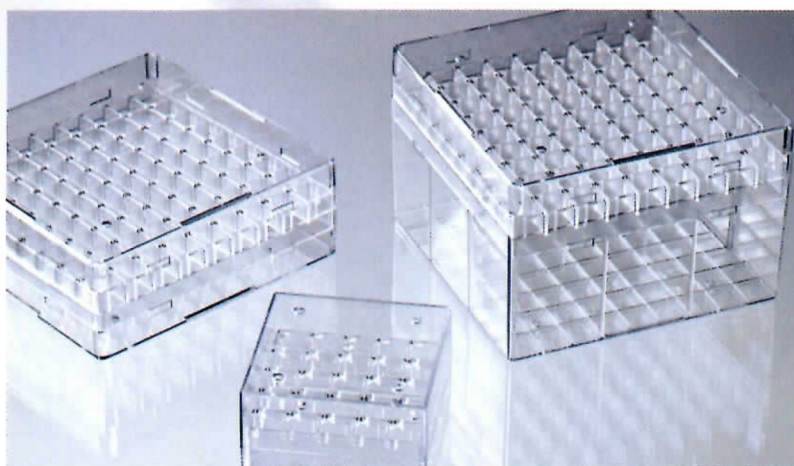


100-Place Freezer Storage Box with Separate Lid

The 100-Place storage box is for use with Labcon and major brands of screw cap micro centrifuge tubes. This box is designed to hold 100 tubes upright and separate to provide adequate spacing for sub zero storage. Drain holes are provided in box for usage to -190°C. 5¼"L x 5¼"W x 21/16"H size fits all standard storage units. Clear lid gives you a good view of samples and does not require special alignment to close. Posts next to tubes are numbered letting you locate the sample you need quickly. Stackable and autoclavable. Made of polycarbonate.

Item	Package	Qty/Pk	Qty/Cs
2713-220	100 Place Cryo Storage Box	5	20





Cryo Storage Boxes

These durable polycarbonate storage boxes hold most major brands of cryo tubes and micro centrifuge tubes. They include a special color coded labeled inner grid that lets you easily locate your stored sample even if frost covers the lid. The clear body and lid allow you to periodically assess the contents without having to remove the lid and samples. And you won't have to fumble orienting the lid since they fit in any direction. Available in 25 place, 81 place, and 81 place tall for 5ml cryo tubes. Autoclavable.

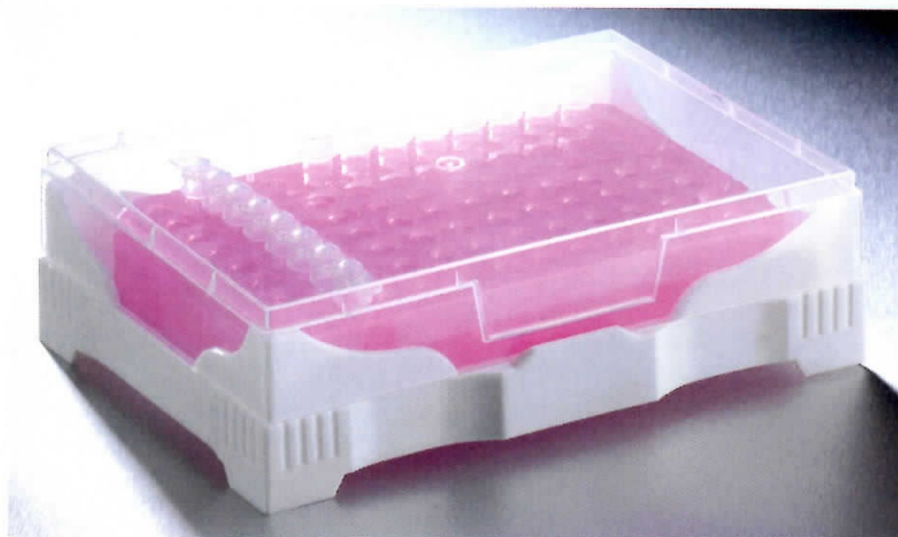
Item	Package	Qty/Pk	Qty/Cs
2710-220	25 Place	5	20
2711-220	81 Place	5	20
2712-220	81 Place Tall	5	20



Benchtop Color Change PCR* Chiller

Like the Benchtop chiller but designed to work with your standard PCR tubes, strips, and plates. These chillers change color from solid purple to pink as the cooling surface warms. This gives you a visual indication when your samples need to be returned to the freezer. These chillers will hold 0°C temperature for up to 4 hours on the bench. Holds all major brands of PCR disposables. Includes clear lid. Made of polypropylene and thermal gel.

Item	Package	Qty/Pk	Qty/Cs
2735-220	PCR Storage Rack	2	10



Benchtop Chillers

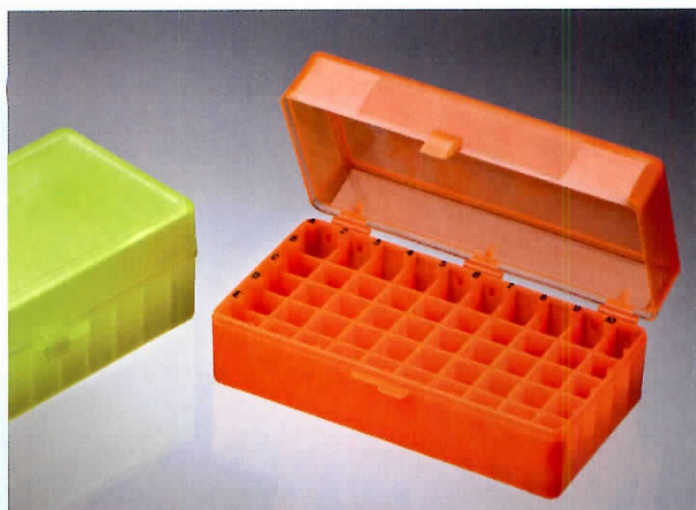
The Benchtop chiller works with 0.5, 0.65, 1.5, 1.7, and 2.0mL micro tubes. Freeze these chillers overnight and remove them from the freezer. After about an hour they will be at the defined chilling temperature appropriate for your bench work and they will hold that temperature for up to 4 hours. Available in 0 degrees and -20 degrees versions. Holds 20 tubes. Made of polycarbonate and thermal gel.

Item	Package	Qty/Pk	Qty/Cs
2731-220	0 degrees	1	4
2730-220	-20 degrees	1	4



* PCR* is a patented process of Hoffman-LaRoche. Use of the PCR* process requires a license.

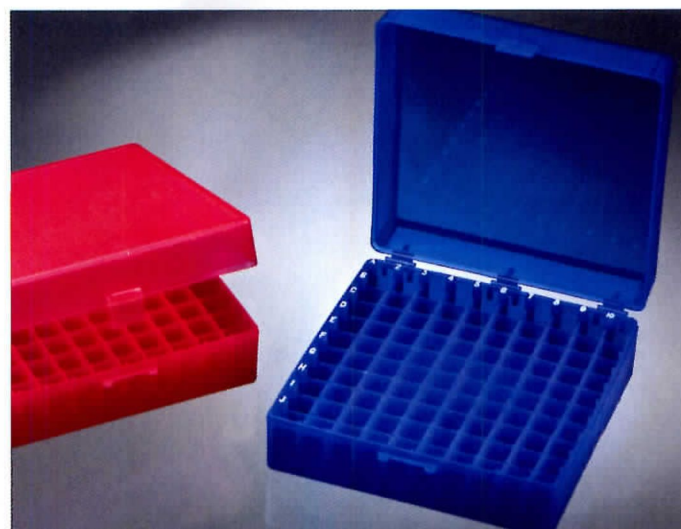
Multi-Place Boxes



50- or 100-Place Freezer Box with Attached Hinged Lids

These freezer boxes are designed to hold 1.5mL and 2.0mL tubes and some 1.2mL cryo vials. Convenient hinged lid and snap lock closure make these boxes very versatile in any lab. Alpha numeric labeled grid makes identifying contents simple. Indented lids can be labeled. Autoclavable. Assorted color package: red, orange, yellow, green, blue. Made of polypropylene.

Item	Package	Qty/Pk	Qty/Cs
2708-220	50 Place, Natural	5	5
2708-229	50 Place, Assorted Colors	5	5
2709-220	100 Place, Natural	5	5
2709-229	100 Place, Assorted Colors	5	5



81-Place Freezer Box with Separate Lid

This high capacity freezer box is designed to fit into existing freezer storage racks. Holds 81 x 1.5mL or 2.0mL micro centrifuge tubes. Labeled alpha numerically for easy identification of contents. 5 1/4" L x 5 1/4" W size replaces cardboard racks. Clear lid included. Autoclavable. Assorted color package includes red, orange, yellow, green, blue. Made of polypropylene.

Item	Package	Qty/Pk	Qty/Cs
2707-220	81 Place, Natural	5	5
2707-229	81 Place, Assorted Colors	5	5





We make independently verified quality. All the Labcon products in this catalog are supplied by an ISO 9001:2008 registered manufacturing facility. Every aspect of these products are quality proven from design to delivery before independent auditors every six months.



The manufacturing facility is registered by the U.S. Food and Drug Administration to manufacture medical devices.



U.S. Pharmacopeia Methods and Guidelines (U.S.P. Class VI) are used if there is an applicable standard.



The plastic resins we use are compliant with FDA CFR Title 21-177.1520, 178.3295, 178.3297 and ISO 10993-3 to ensure that they are non cytotoxic and are not harmful to cells or tissue samples.



The resins used for these products have been tested for the presence of trace heavy metals and have been found to contain less than a detectable level of 1 part per million. Products shown in this catalog as Metal Free have been tested and are certified to contain less than 1PPB of common extractable metals. A separate certificate is available for these items.



Spin rates for tubes are expressed as RCF (Relative Centrifugal Force). RCF is calculated for any rotor by using the formula: $RCF = (11.17 \times 10^{-7}) RN^2$ 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 for the tube you intend to use.



Items listed as autoclavable can be autoclaved at 122 °C for a maximum of 20 minutes at 15 P.S.I. Remember to back-off the caps of tubes to prevent collapse when autoclaving. A steam cycle should be used with the items in this catalog that are listed as autoclavable. Always air dry these items. Avoid using a dry cycle or glassware cycle as deformation can occur to plastics that are heated for extended periods.



When freezing samples in tubes remember to provide adequate spacing to allow for even cooling rates. Crowding or inadequate spacing or use of foam or other types of insulated racks that cause uneven cooling, can cause cracking or crazing. Maximum nominal freezing temperatures are shown for specific products.



Pipet tip racks are completely molded of recycled plastics. Racks are also coded for local recycling. A recycling program is available to pre-authorized participants. Please contact us for more information on how to join.



Items shown with the CE marking are compliant with CE directive 98/79 EEC for In-vitro Diagnostics.



Because the presence of nucleases; both RNase and DNase is of great concern we test every production lot of pipet tips, centrifuge tubes, and microtubes where noted inside. Our testing frequency is so great you can be sure these Labcon products are safe and pure. All products noted are tested for the presence of DNA. Every lot of tested product is tested to a detection level of 1pg of Human Genomic DNA.



Those products noted are Lot tested for the presence of Adenosine Triphosphate and results show less than X10-12 mg/µl.



Every lot of the items noted in this catalog is tested to guarantee that they are free of protease contamination. This assures that these products can reliably be used in protein and proteomic research.



Following the latest U.S.P. methods we check every lot of sterile products for endotoxins before sterilization. This ensures that our extremely clean process is systematically maintained.

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.

	%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		◆	U U	U ◆
Barium carbonate	100	▲	▲	▲
Barium chloride	satd.	▲	▲	▲
Benzaldehyde		◆	■	◆
Benzene		◆	U U	◆
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		◆	U U	◆
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		▲	▲	▲

TYPE OF PLASTIC

Hi Density Polyethylene (PE)
Low Density Polyethylene (PE)
Polypropylene (PP)
Polystyrene (PS)
Polycarbonate (PC)

TEMP. RANGE °C*

-40 +140
-40 +100
-80 +140
-40 +90
-190 +140

* Using water. Organic solvents or physical procedures like centrifuging may reduce usable temperature range

	%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		▲	▲	▲