



Prevents  
sample  
retention

- **Tips are certified free of:**

*RNase/DNase, ATP, endotoxin/pyrogens (<0.05EU/mL), cytotoxic effects, trace heavy metals (<1ppm), protease, and human DNA. Suitable for DNA manipulation, PCR, and radionuclides.*

- **Validated Sterilization (ISO 11137)**

*Certified sterile with a 10-6 sterility assurance level (SAL) for research, clinical and diagnostic uses*

- **Quality certification and ACT scores available**

*Certificates outlining functional and biological testing are available for each lot number. Specific products include an ACT environmental impact score.*

- **Superior filters with low porosity**

*Tips provide complete protection from contamination, as mandated by CDC guidelines*



## ZAP Slik **Low Retention** Aerosol Pipette Tips from Labcon

Proven aerosol blocking and unsurpassed fluid retention performance.

- For PCR\*, DNA manipulation, P<sup>32</sup>
- 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

## Low Retention pipette tip quality only from Labcon

**Z**ap Slik Low Retention Aerosol Filter Pipette tips 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.

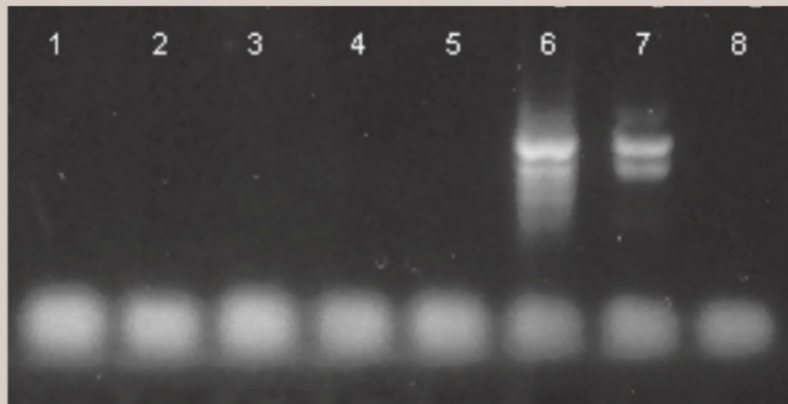
Use these tips in your lab work with confidence. All Zap tips are manufactured robotically to eliminate contamination. Every lot of tips produced is tested on the pipets they are intended for, ensuring they fit and perform correctly. The resin used for tips is pre-tested before use to determine its extractables 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 Classic™ and Premier™ 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.

Supplied in sturdy reusable polypropylene racks that have been sterilized using a validated ISO sterilization process so unlike "presterile" product from others these tips can be used for diagnostic and medical applications. Manufactured under an independently audited and registered ISO 9001:2008 quality system.



# 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 pipette 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.

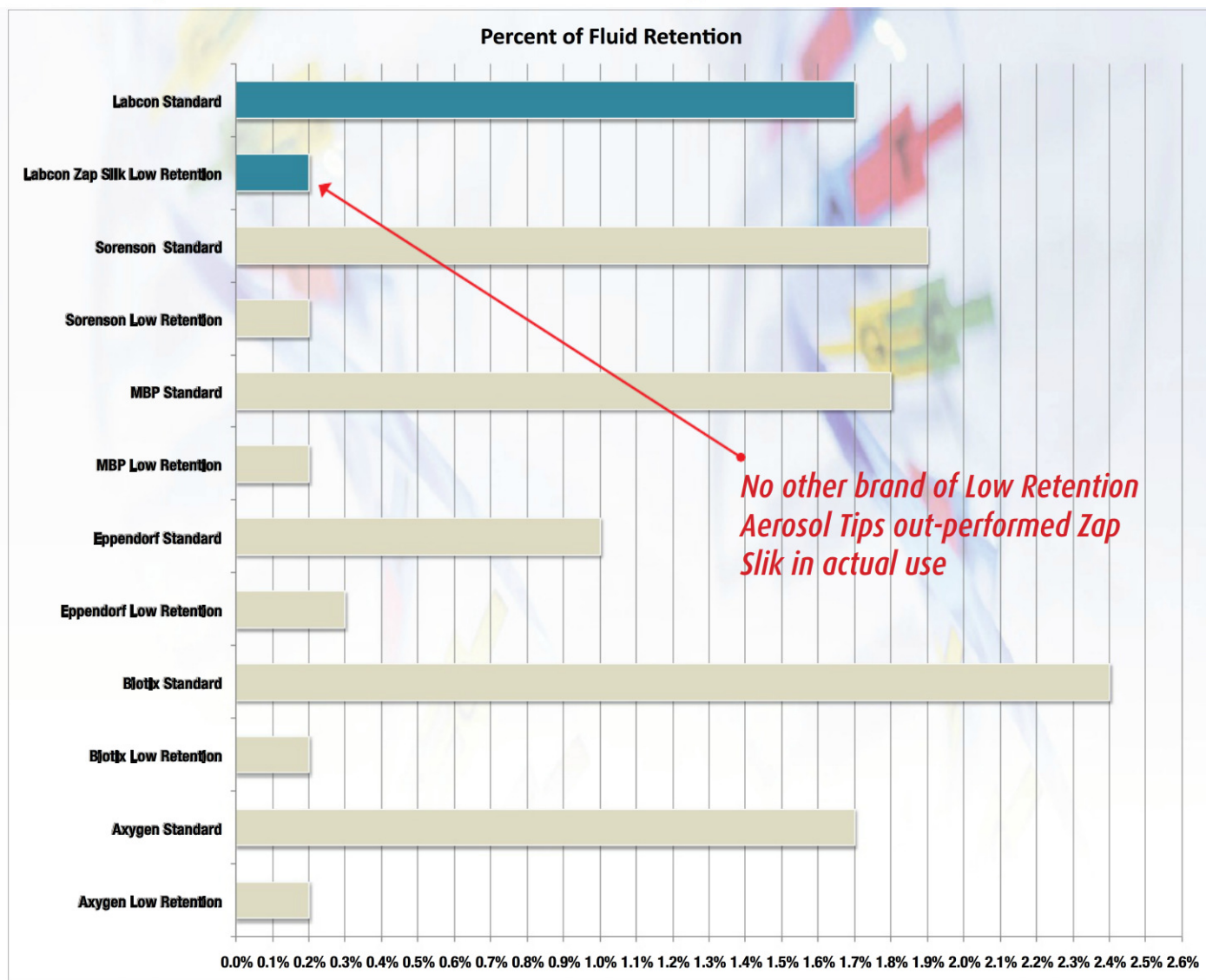


## Features you get only from Zap Slik pipette tips

- ✓ 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.
- ✓ The quality of the resins used to make Labcon tips is unsurpassed by any other pipette tips available anywhere. We only use medical 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.
- ✓ 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.
- ✓ Every lot of tips is tested and certified to be free of RNase/DNase contamination, Human DNA, 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.
- ✓ 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.
- ✓ 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.



# Unsurpassed Low Retention performance



## Comparison study of Low Retention pipette tip performance

The chart above summarizes data from a study to determine the amount of liquid retention for commercially available pipette tips that are marketed with low fluid retention properties compared with standard polypropylene pipette 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)



# Fit Chart

	Style	A	B	C	D	E	F
	Cat. No.	1171-965	1172-965	1175-965	1179-965	1178-965	1177-965
Pipettor Brand	Pipettor Model						
Biohit®	Eline®	X	X	X	X		X
	Epet®		X	X	X	X	X
	Mline® & ProlinePlus®	X	X	X	X	X	X
	Proline®	X	X	X	X	X	X
Brand®	Transferpette® S	X	X	X	X	X	X
	Electronic	X	X	X	X		X
Eppendorf®	Reference®	X	X	X	X	X	X
	Research Pro®	X	X	X	X	X	X
	Research®Plus	X	X	X	X	X	X
Gilson®	Pipetman®	X	X	X	X	X	X
	Ultra® & Neo®	X	X	X	X	X	X
	Concept®	X	X	X	X		X
Hamilton®	Softgrip®	X	X	X	X	X	X
HTL®Labnet	Discovery	X	X	X	X	X	X
	Electronic	X	X	X	X	X	X
Rainin®	Pipet Lite®(Universal Tip)	X	X	X	X	X	X
	EDP® series <small>standard shaft</small>	X	X	X	X		X
Thermo®	Finnpipette Focus®	X	X	X	X	X	X
	Finnpipette Novus®	X	X	X	X		X
	Finnpipette F1 & F2®	X	X	X	X		X
Socorex®	Acura 825®	X	X	X	X	X	X
	Calibra®		X	X	X		
Vistalab®	Ovation®	X	X	X	X		

Zap Slik Low Retention Aerosol Tips fit all popular pipettor brands. Only the most popular brands are shown. For help locating the tip for your pipettors contact your labcon distributor or visit our website at [www.labcon.com](http://www.labcon.com)

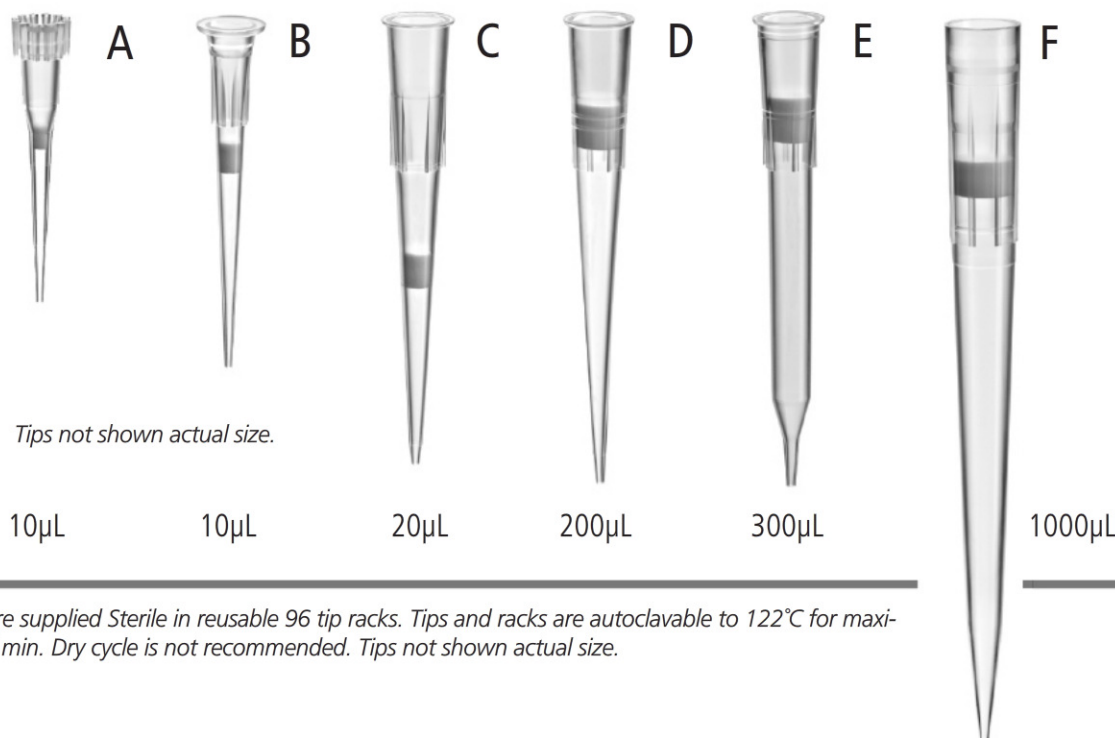


SuperSlik Low Retention tip



Standard polypropylene tip

# Labcon Zap Slik Low Retention Aerosol Pipette 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. Tips not shown actual size.



Non-Pyrogenic Endotoxin Free



## Ordering Information

Item	Sterile	Style	Description	Packaging	Qty/Cs
1171-225-000-9	✓	A	ZAP™ SLIK 10 uL Low Ret. Aerosol Filter Pipet Tips	Eclipse® UNO™	4800
1171-965-008-9	✓	A	ZAP™ SLIK 10 uL Low Ret. Aerosol Filter Pipet Tips	96 Rack	11520
1172-225-000-9	✓	B	ZAP™ SLIK 10uL Ext. Length Low Ret. w/ TubeGard™	Eclipse® UNO™	4800
1172-225-000-9	✓	B	ZAP™ SLIK 10uL Ext. Length Low Ret. w/ TubeGard™	96 Rack	9600
1174-225-000-9	✓	C	ZAP™ SLIK 100 uL Low Ret. Aerosol Filter Pipet Tips	Eclipse® UNO™	4800
1174-965-008-9	✓	C	ZAP™ SLIK 100 uL Low Ret. Aerosol Filter Pipet Tips	96 Rack	9600
1175-225-000-9	✓	D	ZAP™ SLIK 20 uL Low Ret. Aerosol Filter Pipet Tips	Eclipse® UNO™	4800
1175-965-008-9	✓	D	ZAP™ SLIK 20 uL Low Ret. Aerosol Filter Pipet Tips	96 Rack	9600
1177-225-000-9	✓	E	ZAP™ SLIK 1000 uL Low Ret. Aerosol Filter Pipet Tips	Eclipse® UNO™	2304
1177-965-008-9	✓	E	ZAP™ SLIK 1000 uL Low Ret. Aerosol Filter Pipet Tips	96 Rack	4608
1178-225-000-9	✓	F	ZAP™ SLIK 300 uL Low Ret. Aerosol Filter Pipet Tips	Eclipse® UNO™	4800
1178-965-008-9	✓	F	ZAP™ SLIK 300 uL Low Ret. Aerosol Filter Pipet Tips	96 Rack	9600