

“THE INTELLIGENT CHOICE FOR DISCOVERY”



HYDROLOGIX BRAND TIPS

MBP •

SECTION

02

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HYDROLOGIX TIPS

WHY RESEARCHERS CHOOSE HYDROLOGIX BRAND PIPET TIPS

BUILDING A NEW BRAND

This section of our catalog presents a new brand of pipet tips to the life science community. It is the combination and improvement of two different lines of pipet tips, and represents the most extensive and complete offering available today. Many people have asked us why, and indeed how, we came to choose the name HydroLogix to represent our new range of pipet tips.

The truth of the matter is, we did not come up with the name – one of our customers did. She explained that the word “hydrologic” was a direct reference to the circulation and conservation of the earth’s water. Since water is the essential requirement for all life on earth and the goal of life science is to improve life through understanding gained by logical, methodical research, the name HydroLogix most closely fit the purpose for which our products are used. In addition, the movement of all aqueous based solutions in the lab is indeed part of the hydrologic cycle-sounded great to us!

You will find that we now offer a tip to fit virtually any pipettor in your laboratory. You may choose among standard yellow and blues, thin walled, beveled, micropoint, wide bore, gel loading, specialty, and REACH style tips all available in your choice of standard and high performance polymers. These new high performance polymers will increase your level of accuracy and precision as well as reduce non-specific binding. You will also discover a new series of tips dubbed Ergo. Ergo pipet tips are designed to provide you with all of the benefits of ergonomic pipetting systems at a fraction of the cost since no new pipettor is needed.

We have also added new packaging configurations designed to reduce laboratory waste and increase the availability of bench space. Look for new tips specifically designed to optimize your Gilson, FinnPipet, Eppendorf, Matrix, Titertek, MLA and Biohit pipettors. We believe that you will be very pleased with the choices available to you and with the assurance that the exact same manufacturing standards applied to the ART and BioRobotix product lines are now being applied to your general-use HLT pipet tips. As always, MBP guarantees its products to be 100% free of any manufacturing defects and invites you to try them for free. Simply log onto our website at www.mbpinc.com and order your validation samples today.



Packaging Options

- 1. Racked**
(96 tips per tray, 10 trays per pack)
- 2. Stack Racked**
(96 tips per tray, 5 tray per stack, 2 stacks per pack)
- 3. Individually Wrapped**
(500 pre-sterilized, individually wrapped tips in a free-standing zip-locked bag)
- 4. Bulk**
(1000 loose tips in a free-standing zip-locked bag)





REDUCE CONTAMINATION RISK



All sterile HLT branded tips are certified "PURE". The lot testing protocols used in PURE certification are: DNA contamination, RNase and DNase Detection, Pyrogen Detection, Bioburden, PCR Inhibition, ATP Detection, and Sterility Verification. All non-sterile products are manufactured under clean room environments and are certified DNA, RNase and Dnase free. Our stringent manufacturing and QA/QC testing procedures assure you and your samples the most aseptic products on the market.

VOLUME 10 μ L STANDARD TIPS

	Catalog Number	Product	Description	Unit Packaging
A	3501	HLT 10	10 μ l Micro Tip, MicroPoint Design	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3502	HLT 10	10 μ l Micro Tip, MicroPoint Design	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3504	HLT 10	10 μ l Micro, Tip MicroPoint Design	Stack Rack, non-sterile 96 tips/tray, 2 stacks of 5 trays/pack
	3500	HLT 10	10 μ l Micro Tip, MicroPoint Design	Bulk, non-sterile 1000 tips/bag
B	3511	HLT 10 REACH	10 μ l Extended Length Tip, MicroPoint Design 2 μ l Reference Mark	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3512	HLT 10 REACH	10 μ l Extended Length Tip, MicroPoint Design 2 μ l Reference Mark	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3510	HLT 10 REACH	10 μ l Extended Length Tip, MicroPoint Design 2 μ l Reference Mark	Bulk, non-sterile 1000 tips/bag
C	3521	HLT Ultra Micro	20 μ l Ultra Micro Tip, MicroPoint Design	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3522	HLT Ultra Micro	20 μ l Ultra Micro Tip, MicroPoint Design	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3520	HLT Ultra Micro	20 μ l Ultra Micro Tip, MicroPoint Design	Bulk, non-sterile 1000 tips/bag

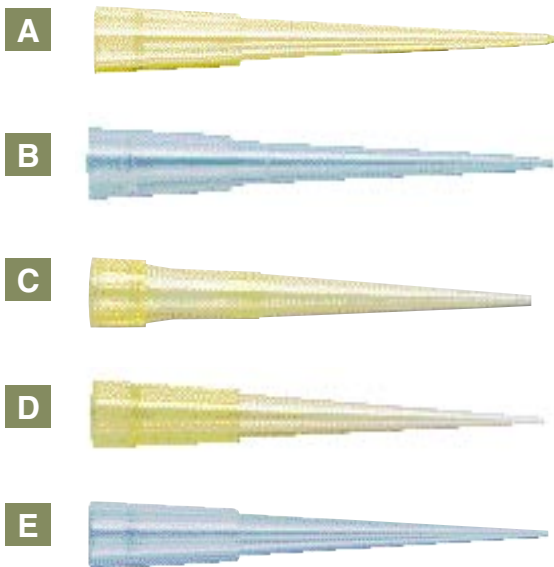
For pipettor tip fits information see appendix page 137



VOLUME 200 μ L STANDARD TIPS

	Catalog Number	Product	Description	Unit Packaging
D	3901	HLT Yellow	200 μ l Pipet Tip, Yellow	Racked, pre-sterilized, 96 tips/tray, 10 trays/pack
	3902	HLT Yellow	200 μ l Pipet Tip, Yellow	Racked, non-sterile, 96 tips/tray, 10 trays/pack
	3904	HLT Yellow	200 μ l Pipet Tip, Yellow	Stack Rack, non-sterile, 96 tips/tray 2 stacks of 5 trays/pack
	3900	HLT Yellow	200 μ l Pipet Tip, Yellow	Bulk, non-sterile, 1000 tips/bag
E	3911	HLT 200	200 μ l Pipet Tip, Clear	Racked, pre-sterilized, 96 tips/tray, 10 trays/pack
	3912	HLT 200	200 μ l Pipet Tip, Clear	Racked, non-sterile, 96 tips/tray, 10 trays/pack
	3910	HLT 200	200 μ l Pipet Tip, Clear	Bulk, non-sterile, 1000 tips/bag

For pipettor tip fits information see appendix page 137



REFERENCE MARKS

Many of our tips are molded with reference marks. They provide a quick and convenient guide to visually establish whether you are pipeting the desired volume of liquid.

VOLUME 200 μ L STANDARD TIPS

	Catalog Number	Product	Description	Unit Packaging
A	3921	HLT Yellow	200 μ l Pipet Tip, Beveled, Yellow	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3922	HLT Yellow	200 μ l Pipet Tip, Beveled, Yellow	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3920	HLT Yellow	200 μ l Pipet Tip, Beveled, Yellow	Bulk, non-sterile, 1000 tips/bag
B	3931	HLT 200	200 μ l Pipet Tip, Clear, Beveled Graduations at 10, 50 & 100 μ l	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3932	HLT 200	200 μ l Pipet Tip, Clear, Beveled Graduations at 10, 50 & 100 μ l	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3934	HLT 200	200 μ l Pipet Tip, Clear, Beveled Graduations at 10, 50 & 100 μ l	Stack Rack, non-sterile 96 tips/tray, 2 stacks of 5 trays/pack
	3930	HLT 200	200 μ l Pipet Tip, Clear, Beveled Graduations at 10, 50 & 100 μ l	Bulk, non-sterile, 1000 tips/bag
C	3941	HLT Yellow	200 μ l Pipet Tip, Yellow Eppendorf Style	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3942	HLT Yellow	200 μ l Pipet Tip, Yellow Eppendorf Style	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3940	HLT Yellow	200 μ l Pipet Tip, Yellow Eppendorf Style	Bulk, non-sterile, 1000 tips/bag
D	3961	HLT Yellow 200	200 μ l Pipet Tip, Thin Wall, Yellow	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3962	HLT Yellow 200	200 μ l Pipet Tip, Thin Wall, Yellow	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3960	HLT Yellow 200	200 μ l Pipet Tip, Thin Wall, Yellow	Bulk, non-sterile, 1000 tips/bag
E	3551	HLT 200	200 μ l Pipet Tip, Thin Wall, Clear	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3552	HLT 200	200 μ l Pipet Tip, Thin Wall, Clear	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3554	HLT 200	200 μ l Pipet Tip, Thin Wall, Clear	Stack Rack, non-sterile 96 tips/tray, 2 stacks of 5 trays/pack
	3550	HLT 200	200 μ l Pipet Tip, Thin Wall, Clear	Bulk, non-sterile, 1000 tips/bag

For pipettor tip fits information see appendix page 137



MULTI-CHANNEL PIPETTING



SoftFit™ tips provide unequalled tip-to-tip precision and consistent loading while multichannel pipeting. The design of the tips and reinforced wide bottom tray combine to eliminate the common problems of the tips falling off, uneven aspiration, and difficult tip loading when multichannel pipeting. The SoftFit™ feature allows the tips to conform to the pipettor barrel without exerting additional force. This ensures a leak-proof seal and reliable attachment and state of the art precision, while reducing hand fatigue during loading and ejecting.

A



B

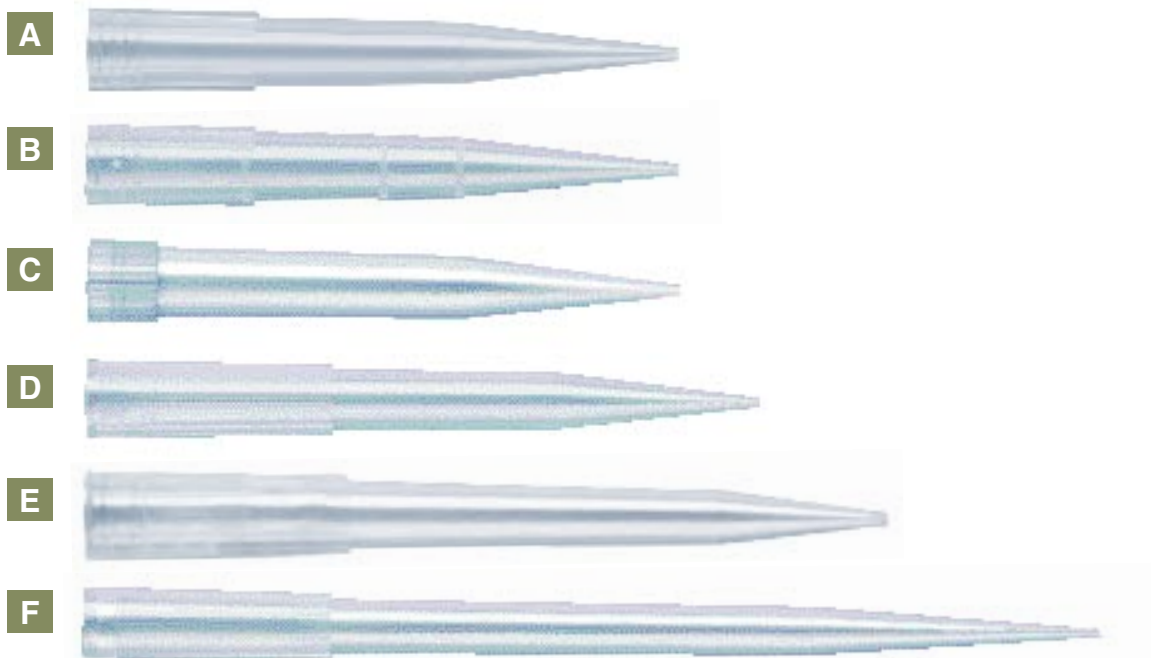


VOLUME 300 μ L MULTI-CHANNEL TIPS

Catalog Number	Product	Description	Unit Packaging
A 3771	HLT 300U	300 μ l Pipet Tip, SoftFit	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3772	HLT 300U	300 μ l Pipet Tip, SoftFit	Racked, non-sterile 96 tips/tray, 10 trays/pack
B 3571	HLT Titertek 300	300 μ l Pipet Tip Graduations at 10, 50, 100 & 200 μ l	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3572	HLT Titertek 300	300 μ l Pipet Tip Graduations at 10, 50, 100 & 200 μ l	Racked, non-sterile 96 tips/tray, 10 trays/pack
3570	HLT Titertek 300	300 μ l Pipet Tip Graduations at 10, 50, 100 & 200 μ l	Bulk, non-sterile, 1000 tips/bag

For pipettor tip fits information see appendix page 137

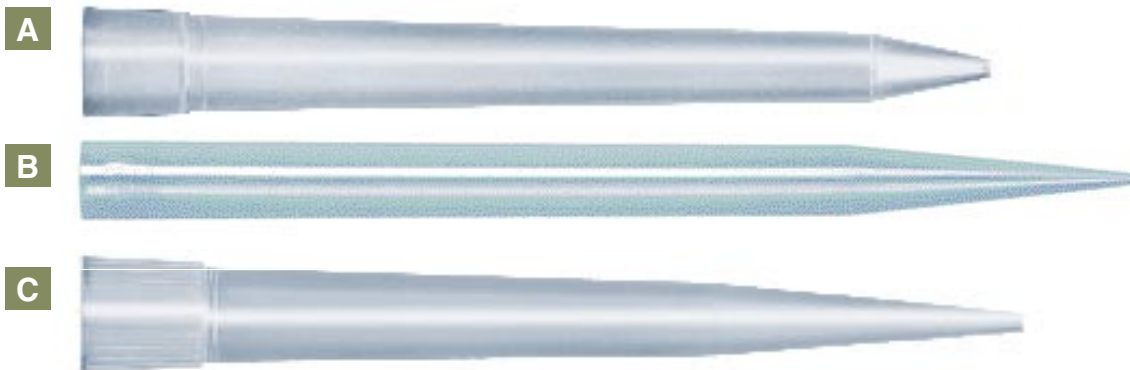




VOLUME 1000 μ L STANDARD TIPS				
Catalog Number	Product	Description	Unit Packaging	
A	3951	HLT Blue	1000 μ l Pipet Tip, Blue	Racked, pre-sterilized, 100 tips/tray, 8 trays/pack
	3952	HLT Blue	1000 μ l Pipet Tip, Blue	Racked, non-sterile, 100 tips/tray, 8 trays/pack
	3954	HLT Blue	1000 μ l Pipet Tip, Blue	Stack Rack, non-sterile, 100 tips/tray 2 stacks of 5 trays/pack
	3950	HLT Blue	1000 μ l Pipet Tip, Blue	Bulk, non-sterile, 1000 tips/bag
	B	3981	HLT 1000	1000 μ l Pipet Tip, Clear Graduations at 250, 500 & 1000 μ l
3982		HLT 1000	1000 μ l Pipet Tip, Clear Graduations at 250, 500 & 1000 μ l	Racked, non-sterile 100 tips/tray, 8 trays/pack
3984		HLT 1000	1000 μ l Pipet Tip, Clear Graduations at 250, 500 & 1000 μ l	Stack Rack, non-sterile, 100 tips/tray 2 stacks of 5 trays/pack
3980		HLT 1000	1000 μ l Pipet Tip, Clear Graduations at 250, 500 & 1000 μ l	Bulk, non-sterile, 1000 tips/bag
C	3991	HLT Blue	1000 μ l Pipet Tip, Eppendorf Style	Racked, pre-sterilized, 100 tips/tray, 8 trays/pack
	3992	HLT Blue	1000 μ l Pipet Tip, Eppendorf Style	Racked, non-sterile 100 tips/tray, 8 trays/pack
	3990	HLT Blue	1000 μ l Pipet Tip, Eppendorf Style	Bulk, non-sterile, 1000 tips/bag
D	3581	HLT 1000	1000 μ l Pipet Tip, SoftFit Design	Racked, pre-sterilized, 100 tips/tray, 8 trays/pack
	3582	HLT 1000	1000 μ l Pipet Tip, SoftFit Design	Racked, non-sterile, 100 tips/tray, 8 trays/pack
	3580	HLT 1000	1000 μ l Pipet Tip, SoftFit Design	Bulk, non-sterile, 1000 tips/bag
E	3881	HLT 1000E	1000 μ l Pipet Tip, Clear	Racked, pre-sterilized, 100 tips/tray, 8 trays/pack
	3882	HLT 1000E	1000 μ l Pipet Tip, Clear	Racked, non-sterile, 100 tips/tray, 8 trays/pack
	3880	HLT 1000E	1000 μ l Pipet Tip, Clear	Bulk, non-sterile, 1000 tips/bag
F	3791	HLT 1000 REACH	1000 μ l Extended Length Tip SoftFit Design	Racked, pre-sterilized, 100 tips/tray, 8 trays/pack
	3792	HLT 1000 REACH	1000 μ l Extended Length Tip SoftFit Design	Racked, non-sterile, 100 tips/tray, 8 trays/pack

For pipettor tip fits information see appendix page 137





VOLUME 5000µL STANDARD TIPS

	Catalog Number	Product	Description	Unit Packaging
A	3895	HLT 5000	5000µl Pipet Tip, Clear, BluntPoint	Bulk, non-sterile, 250 tips/bag
B	3896	HLT 5000	5000µl Pipet Tip, Clear, MicroPoint	Bulk, non-sterile, 250 tips/bag
C	3897	HLT 5000	5000µl Pipet Tip, Clear	Bulk, non-sterile, 250 tips/bag

For pipettor tip fits information see appendix page 137



VOLUME 10000µL STANDARD TIPS

	Catalog Number	Product	Description	Unit Packaging
D	3898	HLT 10ML	10000µl Pipet Tip, Clear, Graduations at 1000µl intervals	Bulk, non-sterile, 200 tips/bag

For pipettor tip fits information see appendix page 137



HYDROLOGIX BRAND PCR TUBES

Reduced Sample Evaporation

If you like our tips, try our HLT Tubes. All HydroLogix tubes feature secure sealing caps to minimize sample evaporation during thermal cycling. Our caps close tightly and do not open until you want them to.

Compatibility

All HydroLogix tubes are compatible with major brand thermocyclers: MJ Research, Eppendorf, BioRad, PerkinElmer and Stratagene, to name a few. See page 71 for more information.

ERGONOMIC PIPET TIPS

With the increased use of pipettors and pipet tips, there has been a marked increase in the awareness of the risks of ergonomic disorders that can be associated with repetitive pipetting.

Prolonged use of manual pipettors can cause several ergonomic stresses. This includes the development of Cumulative Trauma Disorders (CTD) or Work Related Upper Limb Disorders (WRULD) and other musculoskeletal disorders where strong force is required in the pipetting motion.

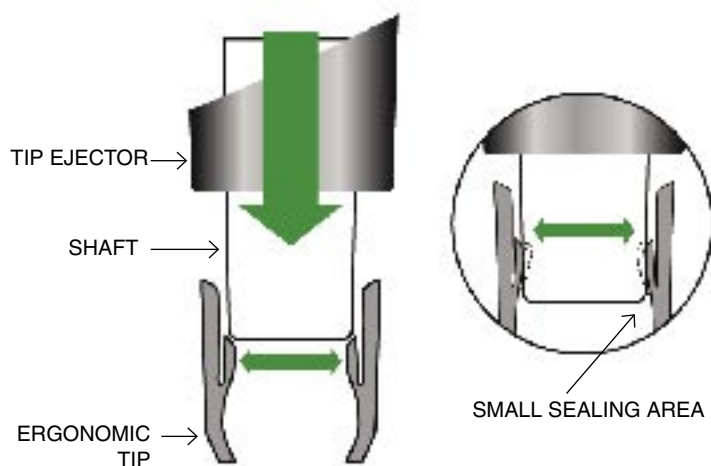
Avoiding CTD and WRULD is inexpensive and straightforward. Good laboratory practices combined with well designed, modern pipettors and pipet tips can substantially reduce the strain involved in pipetting.

These new HydroLogix pipet tips utilize a unique bi-fabricated wall that has been designed to produce a secure seal at a fraction of the force required to load standard pipet tips onto your pipettor. Accordingly, the forces required to eject the tips from your pipettor are significantly reduced as well. These tips are available for Gilson, Rainin LTS, Thermo Electron FinnPipette Digital, and Focus Brands. Try them today!

- Reduced Strains and Injury • Secure and Consistent Seals • Less Ejection Force • Available in two pipettor Styles
- Available in Low Retention Polymer • Available with the ART Self Sealing Barrier

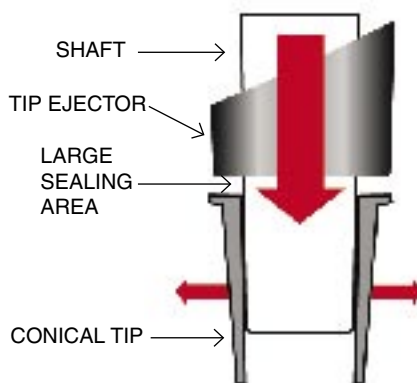
HYDROLOGIX BRAND ERGONOMIC TIP

The unique bi-fabricated wall of the HydroLogix Brand Ergonomic Tip creates a strong, effective seal while requiring significantly lower tip seating and ejection force.



STANDARD TIP

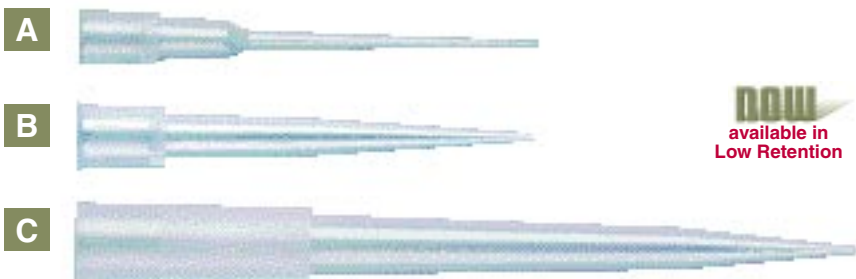
Due to the high surface area of the pipet shaft in contact with standard pipet tips, the amount of force to seat standard tip on the pipettor is significantly higher than with our Ergonomic style tips. Consequently, the ejection force required to remove standard tips from the pipettor shaft is significantly higher as well due to the slamming effect while seating the tip.



SOFTFIT-L FOR RAININ LTS LITETOUGH PIPETTORS



SoftFit-L pipet tips for Rainin LTS pipettors are cylindrical, rather than conical and produce a reliable, consistent seal without excessive force. SoftFit-L tips are thin-walled and incorporate a small, well-defined seal area with a positive stop. The positive stop lets you know when the seal is made and prevents over insertion of the pipettor shaft into the tip. There is no need to forcefully seat the tip on the pipettor, thus a reduction in force is achieved. This means ejection forces are reduced when compared to traditional conical tips and pipettors.



VOLUME 20µL TO 1000µL ERGONOMIC TIPS

Catalog Number	Product	Description	Unit Packaging
SoftFit-L 20µL			
A 3721	HLT 20L	20µL SoftFit-L Pipet Tip, Reinforced Tray for Rainin LTS Pipettors	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3722	HLT 20L	20µL SoftFit-L Pipet Tip, Reinforced Tray for Rainin LTS Pipettors	Racked, non-sterile 96 tips/tray, 10 trays/pack
3721-05	HLT 20L	20µL SoftFit-L Pipet Tip, Reinforced Tray Low Retention, for Rainin LTS Pipettors	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3722-05	HLT 20L	20µL SoftFit-L Pipet Tip, Reinforced Tray Low Retention, for Rainin LTS Pipettors	Racked, non-sterile 96 tips/tray, 10 trays/pack
SoftFit-L 200µL			
B 3751	HLT 200L	200µL SoftFit-L Pipet Tip, Reinforced Tray for Rainin LTS Pipettors	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3752	HLT 200L	200µL SoftFit-L Pipet Tip, Reinforced Tray for Rainin LTS Pipettors	Racked, non-sterile 96 tips/tray, 10 trays/pack
3751-05	HLT 200L	200µL SoftFit-L Pipet Tip, Reinforced Tray Low Retention, for Rainin LTS Pipettors	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3752-05	HLT 200L	200µL SoftFit-L Pipet Tip, Reinforced Tray Low Retention, for Rainin LTS Pipettors	Racked, non-sterile 96 tips/tray, 10 trays/pack
SoftFit-L 1000µL			
C 3781	HLT 1000L	1000µL SoftFit-L Tip, Reinforced Tray for Rainin LTS Pipettors	Racked, pre-sterilized 96 tips/tray, 8 trays/pack
3782	HLT 1000L	1000µL SoftFit-L Tip, Reinforced Tray for Rainin LTS Pipettors	Racked, non-sterile 96 tips/tray, 8 trays/pack
3781-05	HLT 1000L	1000µL SoftFit-L Tip, Reinforced Tray Low Retention, for Rainin LTS Pipettors	Racked, pre-sterilized 96 tips/tray, 8 trays/pack
3782-05	HLT 1000L	1000µL SoftFit-L Tip, Reinforced Tray Low Retention, for Rainin LTS Pipettors	Racked, non-sterile 96 tips/tray, 8 trays/pack

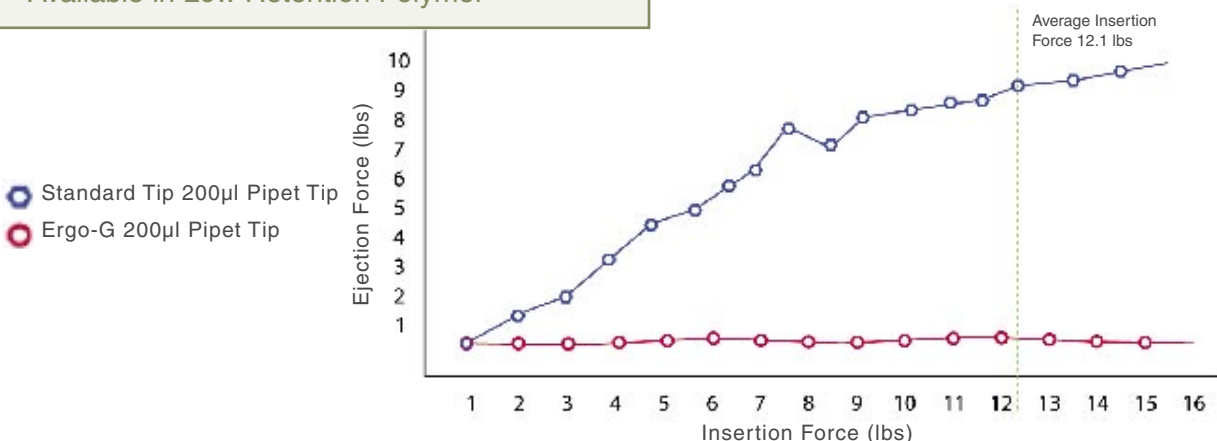
For pipettor tip fits information see appendix page 137



HLT PIPET TIPS FOR GILSON PIPETMAN

- Reduce Strains and Injury
- Secure and Consistent Seals
- Less Ejection Force
- Available in Low Retention Polymer

COMPARISON OF STANDARD PIPET TIP VERSUS HLT ERGO-G



A



B



now
available in
Low Retention

VOLUME 200µL TO 1000µL ERGONOMIC TIPS

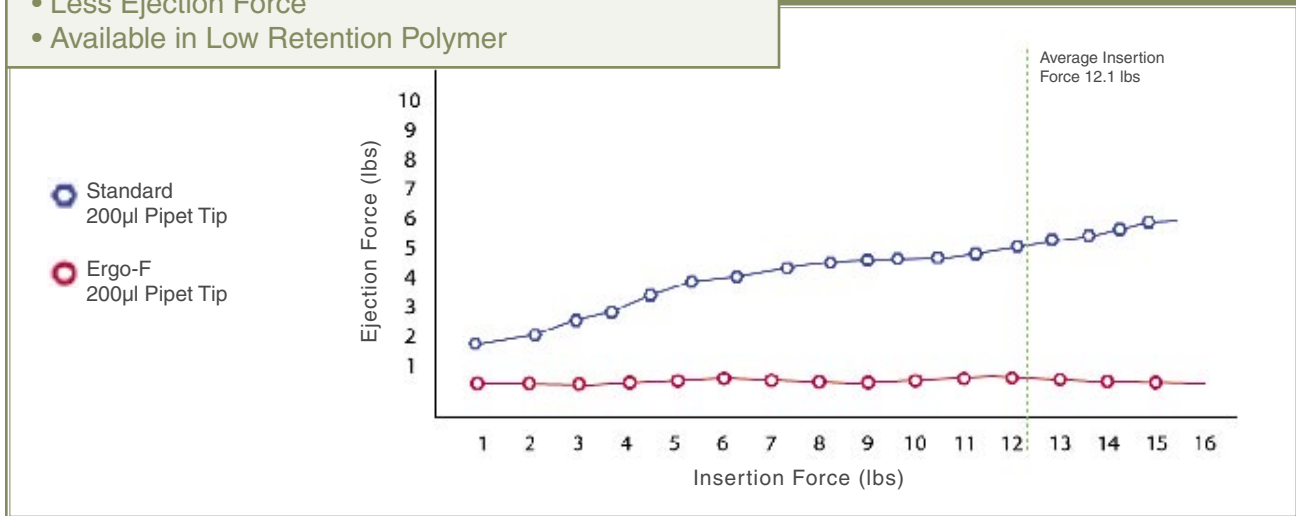
Catalog Number	Product	Description	Unit Packaging
Gilson Ergo-G 200µl			
A 3831	HLT 200 Ergo-G	200µl Pipet Tip, Ergonomic Design for Gilson Pipetman	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3832	HLT 200 Ergo-G	200µl Pipet Tip, Ergonomic Design for Gilson Pipetman	Racked, non-sterile 96 tips/tray, 10 trays/pack
3831-05	HLT 200 Ergo-G	200µl Pipet Tip, Ergonomic Design Low Retention for Gilson Pipetman	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3832-05	HLT 200 Ergo-G	200µl Pipet Tip, Ergonomic Design Low Retention for Gilson Pipetman	Racked, non-sterile 96 tips/tray, 10 trays/pack
Gilson Ergo-G 1000µl			
B 3841	HLT 1000 Ergo-G	1000µl Pipet Tip, Ergonomic Design for Gilson Pipetman	Racked, pre-sterilized 100 tips/tray, 8 trays/pack
3842	HLT 1000 Ergo-G	1000µl Pipet Tip, Ergonomic Design for Gilson Pipetman	Racked, non-sterile 100 tips/tray, 8 trays/pack
3841-05	HLT 1000 Ergo-G	1000µl Pipet Tip, Ergonomic Design Low Retention for Gilson Pipetman	Racked, pre-sterilized 100 tips/tray, 8 trays/pack
3842-05	HLT 1000 Ergo-G	1000µl Pipet Tip, Ergonomic Design Low Retention for Gilson Pipetman	Racked, non-sterile 100 tips/tray, 8 trays/pack

For pipettor tip fits information see appendix page 137

HLT PIPET TIPS FOR FINNPIPETTE PIPETTORS

- Reduce Strains and Injury
- Secure and Consistent Seals
- Less Ejection Force
- Available in Low Retention Polymer

COMPARISON OF STANDARD PIPET TIP VERSUS HLT ERGO-F



now
available in
Low Retention

VOLUME 200µL AND 1000µL ERGONOMIC TIPS

Catalog Number	Product	Description	Unit Packaging
ThermoLabsystems Ergo-F 200µl			
A 3811	HLT 200 Ergo-F	200µl Pipet Tip, Ergonomic Design for FinnPipette Focus & Digital Pipettors	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3812	HLT 200 Ergo-F	200µl Pipet Tip, Ergonomic Design for FinnPipette Focus & Digital Pipettors	Racked, non-sterile 96 tips/tray, 10 trays/pack
3811-05	HLT 200 Ergo-F	200µl Pipet Tip, Ergonomic Design, Low Retention for FinnPipette Focus & Digital Pipettors	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3812-05	HLT 200 Ergo-F	200µl Pipet Tip, Ergonomic Design, Low Retention for FinnPipette Focus & Digital Pipettors	Racked, non-sterile 96 tips/tray, 10 trays/pack
ThermoLabsystems Ergo-F 1000µl			
B 3821	HLT 1000 Ergo-F	1000µl Pipet Tip, Ergonomic Design for FinnPipette Focus & Digital Pipettors	Racked, pre-sterilized 100 tips/tray, 8 trays/pack
3822	HLT 1000 Ergo-F	1000µl Pipet Tip, Ergonomic Design for FinnPipette Focus & Digital Pipettors	Racked, non-sterile 100 tips/tray, 8 trays/pack
3821-05	HLT 1000 Ergo-F	1000µl Pipet Tip, Ergonomic Design, Low Retention for FinnPipette Focus & Digital Pipettors	Racked, pre-sterilized 100 tips/tray, 8 trays/pack
3822-05	HLT 1000 Ergo-F	1000µl Pipet Tip, Ergonomic Design, Low Retention for FinnPipette Focus & Digital Pipettors	Racked, non-sterile 100 tips/tray, 8 trays/pack

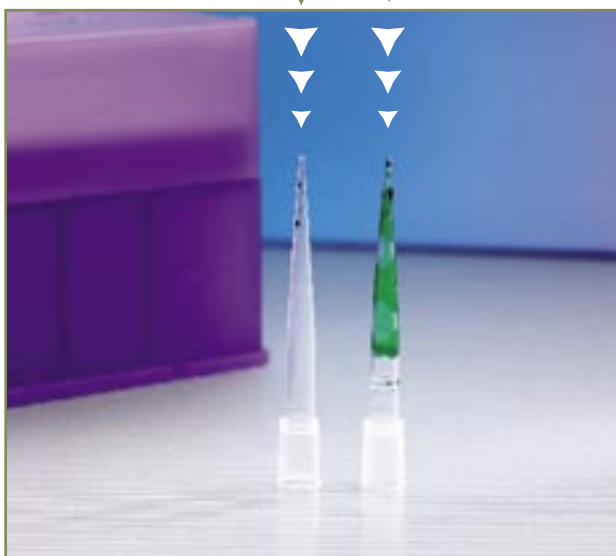
For pipettor tip fits information see appendix page 137



LOW SAMPLE RETENTION

LOW RETENTION TIPS

STANDARD TIPS

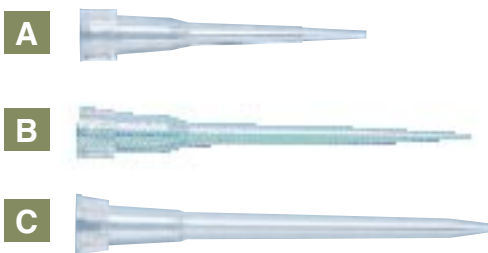


HydroLogix tips are crystal clear and cast from special molds designed to reduce sample retention. The high quality, virgin polypropylene used to manufacture these tips also decreases sample retention without the use of additives or coatings that may negatively affect sample integrity.

Our new Low Retention Pipet Tips are specifically designed for applications requiring high accuracy and reproducibility. The delivery of highly viscous liquids is problematic because significant amounts of residual liquid typically remain in the pipet tip after the pipeting cycle is completed. This systematic loss of sample contributes greatly to the variability in complex reactions such as PCR, RT PCR, and DNA sequencing.

Low Retention pipet tips reduce sample retention by 3 to 5 times when compared to an ordinary pipet tip. This new polymer technology makes the inner surface of the pipet tip more hydrophobic resulting in a significant reduction in sample loss due to adhesion. The result is less liquid retention and improved liquid handling.

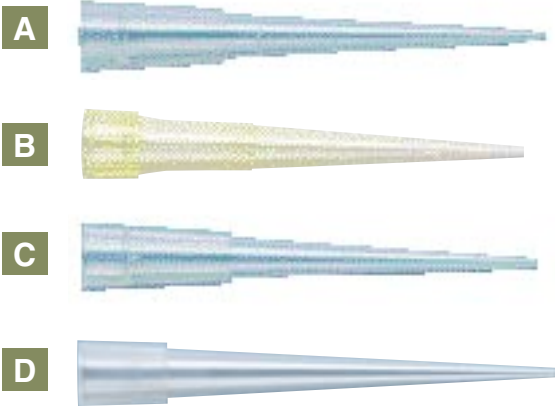
◀ **200µl** of green food dye was aspirated then dispensed using a tip featuring the proprietary Low Retention technology as well as using a standard pipet tip. Notice the tip on the left has virtually no sample left behind, while the standard tip on the right has a considerable amount of sample retained.



VOLUME 10µL LOW RETENTION

	Catalog Number	Product	Description	Unit Packaging
A	3501-05	HLT 10	10µl Micro Tip, Low Retention MicroPoint Design	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3502-05	HLT 10	10µl Micro Tip, Low Retention MicroPoint Design	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3500-05	HLT 10	10µl Micro Tip, Low Retention MicroPoint Design	Bulk, non-sterile, 1000 tips/bag
B	3511-05	HLT 10 REACH	10µl Extended Length Tip, Low Retention MicroPoint Design	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3512-05	HLT 10 REACH	10µl Extended Length Tip, Low Retention MicroPoint Design	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3510-05	HLT 10 REACH	10µl Extended Length Tip, Low Retention MicroPoint Design	Bulk, non-sterile, 1000 tips/bag
C	3521-05	HLT Ultra Micro	20µl Ultra Micro Tip, Low Retention MicroPoint Design	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3522-05	HLT Ultra Micro	20µl Ultra Micro Tip, Low Retention MicroPoint Design	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3520-05	HLT Ultra Micro	20µl Ultra Micro Tip, Low Retention MicroPoint Design	Bulk, non-sterile, 1000 tips/bag

For pipettor tip fits information see appendix page 137



VOLUME 200 μ L LOW RETENTION				
	Catalog Number	Product	Description	Unit Packaging
A	3931-05	HLT 200	200 μ l Pipet Tip, Clear, Graduated, reference marks at 10, 50 & 100 μ l, Low Retention	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3932-05	HLT 200	200 μ l Pipet Tip, Clear, Graduated, reference marks at 10, 50 & 100 μ l, Low Retention	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3930-05	HLT 200	200 μ l Pipet Tip, Clear, Graduated, reference marks at 10, 50 & 100 μ l, Low Retention	Bulk, non-sterile, 1000 tips/bag
B	3941-05	HLT Yellow	200 μ l Pipet Tip, Eppendorf Style Low Retention, Yellow	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3942-05	HLT Yellow	200 μ l Pipet Tip, Eppendorf Style Low Retention, Yellow	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3940-05	HLT Yellow	200 μ l Pipet Tip, Eppendorf Style Low Retention, Yellow	Bulk, non-sterile, 1000 tips/bag
C	3551-05	HLT 250	250 μ l Pipet Tip, Thin Wall, Clear, Low Retention	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3552-05	HLT 250	250 μ l Pipet Tip, Thin Wall, Clear, Low Retention	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3550-05	HLT 250	250 μ l Pipet Tip, Thin Wall, Clear, Low Retention	Bulk, non-sterile, 1000 tips/bag
D	3771-05	HLT 300U	300 μ l Pipet Tip, Low Retention SoftFit	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3772-05	HLT 300U	300 μ l Pipet Tip, Low Retention SoftFit	Racked, non-sterile 96 tips/tray, 10 trays/pack

For pipettor tip fits information see appendix page 137

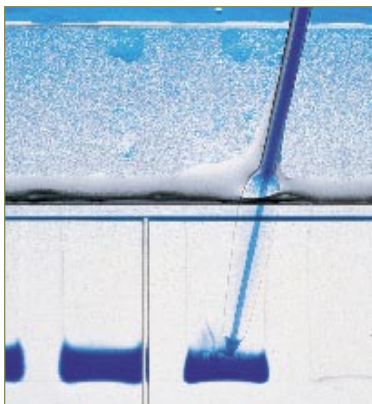


VOLUME 1000 μ L LOW RETENTION				
	Catalog Number	Product	Description	Unit Packaging
D	3581-05	HLT 1000	1000 μ l Pipet Tip, Clear, Low Retention SoftFit	Racked, pre-sterilized, 100 tips/tray, 8 trays/pack
	3582-05	HLT 1000	1000 μ l Pipet Tip, Clear, Low Retention SoftFit	Racked, non-sterile 100 tips/tray, 8 trays/pack






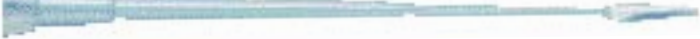
For pipettor tip fits information see appendix page 137



GEL LOADING - SPECIALTY TIPS



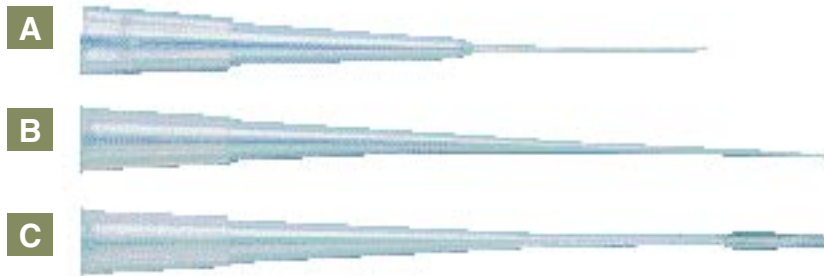
Loading acrylamide or even agarose gels with standard pipet tips is an often time-consuming and frustrating process. Molecular BioProducts is one of only two tip companies in the world with the technology to produce tips specifically for this application. You will find our standard, round gel loading tips for agarose gels both here and in our ART tip section as well as very specialized Ultra Round and Ultra Flat gel tips for your polyacrylamide gels. Available in six styles and six ODs, we have all your gel loading needs covered. Ask for your FREE samples today!

		GEL THICKNESS	OD	ID	USE
A		for loading gels 0.4mm thick and thinner	.25mm .010in	.13mm .005in	Capillary Systems is what this tip is well suited for
B		for loading gels 0.6mm thick and thicker	.58mm .023in	.31mm .012in	Great for Agarose, 2-D & SDS PAGE, Proteins
C		for loading gels 0.6mm thick and thicker	.57mm .0224in	.38mm .015in	Great for Agarose, 2-D & SDS PAGE, Proteins
D		for loading gels 0.2mm thick and thinner	.17mm .0067in		Perfect fit for DNA sequencing gels
E		for loading gels 0.4mm thick and thinner	.37mm .0146in		Ideal for Polyacrylamide sequencing gels
F		for loading gels 0.2mm thick and thinner	.17mm .0067in		Perfect fit for DNA sequencing gels

VOLUME 10 μ L GEL TIPS

	Catalog Number	Product	Description	Unit Packaging
A	3652	HLT Ultra Micro Gel 10	10 μ l Round Gel Loading Pipet Tip, Ultra Micro Length 2-1/4"	Racked, pre-sterilized 204 tips/tray, 5 trays/pack
B	3653	HLT Gel 10	10 μ l Round Gel Loading Pipet Tip Length 2-13/16"	Racked, pre-sterilized 204 tips/tray, 8 trays/pack
C	3651	HLT Round Gel 10	10 μ l Round Gel Loading Pipet Tip	Racked, non-sterile 200 tips/tray, 1 tray/pack
D	3641	HLT Micro-Flat Gel 10	10 μ l Universal Flat Gel Loading Pipet Tip	Racked, non-sterile 200 tips/tray, 1 tray/pack
E	3661	HLT Flat Gel 10	10 μ l Flat Gel Loading Pipet Tip	Racked, non-sterile 200 tips/tray, 1 tray/pack
F	3671	HLT Ultra-Flat Gel 10	10 μ l Flat Loading Pipet Tip	Racked, non-sterile 200 tips/tray, 1 tray/pack

For pipettor tip fits information see appendix page 137



GEL THICKNESS	OD	ID	USE
for loading gels up to 0.6mm thick	.61mm .024in	.31mm .012in	Great for Agarose, 2-D & SDS PAGE, Proteins
for loading gels 0.6mm thick and thicker	.57mm .0224in	.38mm .015in	Great for Agarose, 2-D & SDS PAGE, Proteins
for loading gels up to 0.4mm thick	.37mm .0146in		Ideal for Polyacrylamide & DNA sequencing gels

VOLUME 200µL GEL TIPS

	Catalog Number	Product	Description	Unit Packaging
A	3691	HLT Round Gel 200	200µl Round Gel Loading Pipet Tip	Racked, pre-sterilized 204 tips/tray, 5 trays/pack
	3692	HLT Round Gel 200	200µl Round Gel Loading Pipet Tip	Racked, non-sterile 204 tips/tray, 5 trays/pack
	3690	HLT Round Gel 200	200µl Round Gel Loading Pipet Tip	Bulk, non-sterile, 1000 tips/bag
B	3621	HLT Round Gel 200	200µl Universal Round Gel Loading Pipet Tip 83mm in Length 5µl grad	Racked, non-sterile 200 tips/tray, 1 tray/pack
C	3631	HLT Flat Gel 200	200µl Universal Flat Gel Loading Pipet Tip 83mm in Length 5µl grad	Racked, non-sterile 200 tips/tray, 1 tray/pack

For pipettor tip fits information see appendix page 137

WORK AT TEMPERATURE EQUILIBRIUM

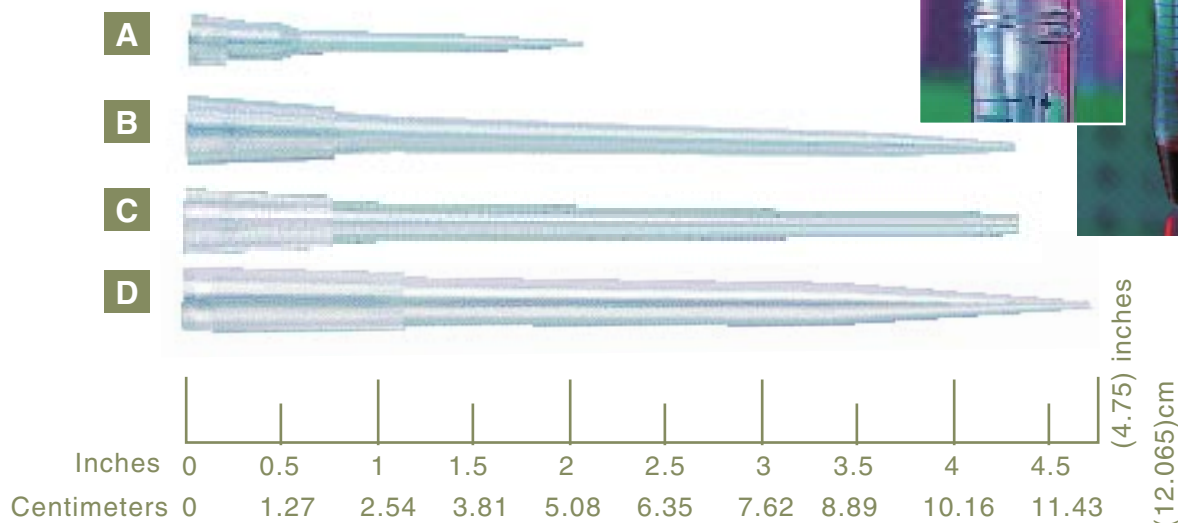
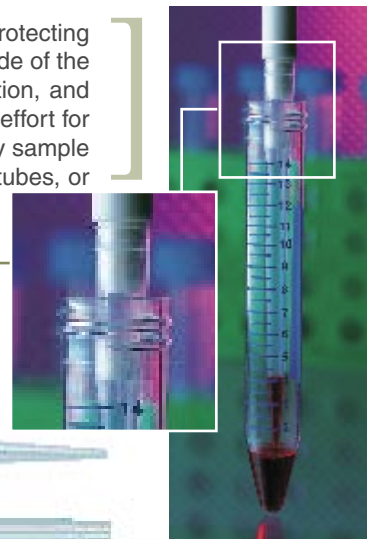
Allow liquids and equipment to equilibrate to ambient temperature.

The volume of sample delivered by air displacement pipets varies with air pressure, relative humidity, and vapor pressure of the liquid, all of which are temperature dependent. Working at a single, constant temperature minimizes the variation.



REACH - SPECIALTY TIPS

HydroLogix brand Extended Length pipet tips add a layer of security in protecting samples and pipettors by preventing the pipettor's shaft from touching the inside of the sample vessel, thus virtually eliminating the chance of carryover contamination, and the need to clean or replace pipettors. Assays remain pure, saving time and effort for each user. They are perfect for researchers and lab technicians who regularly sample from deep vessels such as 15 and 50ml centrifuge tubes, 12x75mm culture tubes, or chromatography columns.



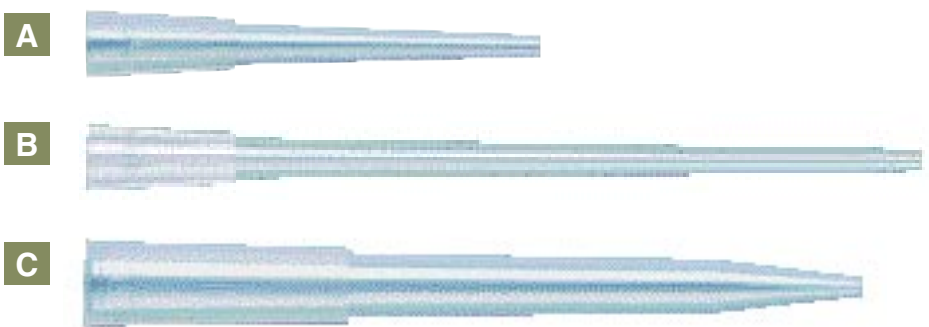
VOLUME 10 μ L TO 1000 μ L REACH TIPS

	Catalog Number	Product	Description	Unit Packaging
A	3511	HLT 10 REACH	10 μ L Extended Length Tip, Clear MicroPoint Design 2 μ L Reference Mark	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3512	HLT 10 REACH	10 μ L Extended Length Tip, Clear MicroPoint Design 2 μ L Reference Mark	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3510	HLT 10 REACH	10 μ L Extended Length Tip, MicroPoint Design 2 μ L Reference Mark	Bulk, non-sterile, 1000 tips/bag
B	3541	HLT XLP	200 μ L Pipet Tip, Clear, Extra Long Length	Racked, pre-sterilized 96 tips/tray, 8 trays/pack
	3542	HLT XLP	200 μ L Pipet Tip, Clear, Extra Long Length	Racked, non-sterile 96 tips/tray, 8 trays/pack
	3540	HLT XLP	200 μ L Pipet Tip, Clear, Extra Long Length	Bulk, non-sterile, 1000 tips/bag
C	3701	HLT XLG	200 μ L Extended Length Tip, Clear Large Orifice Wide Bore	Racked, pre-sterilized 96 tips/tray, 8 trays/pack
	3702	HLT XLG	200 μ L Extended Length Tip, Clear Large Orifice Wide Bore	Racked, non-sterile 96 tips/tray, 8 trays/pack
	3700	HLT XLG	200 μ L Extended Length Tip, Clear Large Orifice Wide Bore	Bulk, non-sterile, 1000 tips/bag
D	3791	HLT 1000 REACH	1000 μ L Extended Length Tip, Clear SoftFit Design Certified Pure	Racked, pre-sterilized 100 tips/tray, 8 trays/pack
	3792	HLT 1000 REACH	1000 μ L Extended Length Tip, Clear SoftFit Design	Racked, non-sterile 100 tips/tray, 8 trays/pack

For pipettor tip fits information see appendix page 137

WIDE BORE - SPECIALTY TIPS

These specialty Wide Bore Tips are designed for researchers dealing with macromolecules like genomic DNA and are especially critical when transferring fragile cellular samples such as macrophages, hybridomas and hepatocytes. When these samples are forced through the narrow tip orifice of conventional tips, they are subjected to mechanical shearing forces that can cause trauma and fragmentation to the cells being transferred. The result is often a decrease in plating capability and compromised cell viability. Our wide bore blunt end tip orifice eliminates cell shearing and flow resistance, making this tip ideal for very viscous material. Whether you are working with macromolecules, viscous material, plant tissues, or doing cell suspensions HydroLogix wide bore tips will keep your research studies alive, whole, and in tact. An Extended Length 200ul tip is available for those hard-to-reach applications or you can use the standard 200ul or 1000ul tip. If your protocol requires the use of a barrier tip, it is available as well; please refer to the ART section of this catalog.

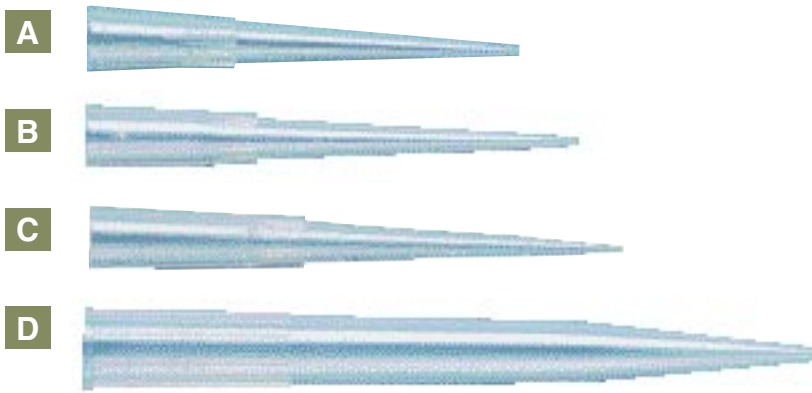


VOLUME 200µL TO 1000µL WIDE BORE GENOMIC

Catalog Number	Product	Description	Unit Packaging
Wide Bore Tips			
A	3531	HLT 200G 200µl Pipet Tip, Clear, Large Orifice	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
	3532	HLT 200G 200µl Pipet Tip, Clear, Large Orifice	Racked, non-sterile 96 tips/tray, 10 trays/pack
	3530	HLT 200G 200µl Pipet Tip, Clear, Large Orifice	Bulk, non-sterile, 1000 tips/bag
B	3701	HLT XLG 200µl Extended Length Tip, Clear Large Orifice	Racked, pre-sterilized 96 tips/tray, 8 trays/pack
	3702	HLT XLG 200µl Extended Length Tip, Clear Large Orifice	Racked, non-sterile 96 tips/tray, 8 trays/pack
	3700	HLT XLG 200µl Extended Length Tip, Clear Large Orifice	Bulk, non-sterile, 1000 tips/bag
C	3591	HLT 1000G 1000µl Pipet Tip, Clear Large Orifice	Racked, pre-sterilized 100 tips/tray, 8 trays/pack
	3592	HLT 1000G 1000µl Pipet Tip, Clear Large Orifice	Racked, non-sterile 100 tips/tray, 8 trays/pack
	3590	HLT 1000G 1000µl Pipet Tip, Clear Large Orifice	Bulk, non-sterile, 1000 tips/bag

For pipettor tip fits information see appendix page 137



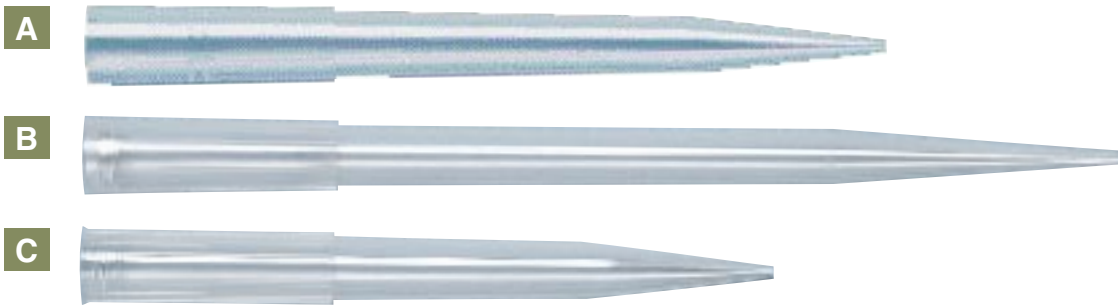


VOLUME 200 μ L TO 1500 μ L SPECIALTY TIPS~TITERTEK STYLE

Catalog Number	Product	Description	Unit Packaging
Titertek 200μl			
A 3851	HLT Titertek 200	200 μ l Pipet Tip, Clear	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3852	HLT Titertek 200	200 μ l Pipet Tip, Clear	Racked, non-sterile 96 tips/tray, 10 trays/pack
3850	HLT Titertek 200	200 μ l Pipet Tip, Clear	Bulk, non-sterile, 1000 tips/bag
Titertek 300μl			
B 3861	HLT Titertek 300	300 μ l Pipet Tip, Clear	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3862	HLT Titertek 300	300 μ l Pipet Tip, Clear	Racked, non-sterile 96 tips/tray, 10 trays/pack
3860	HLT Titertek 300	300 μ l Pipet Tip, Clear	Bulk, non-sterile, 1000 tips/bag
C 3571	HLT Titertek 300	300 μ l Pipet Tip, Clear, Graduations at 10, 50, 100 & 200 μ l	Racked, pre-sterilized 96 tips/tray, 10 trays/pack
3572	HLT Titertek 300	300 μ l Pipet Tip, Clear, Graduations at 10, 50, 100 & 200 μ l	Racked, non-sterile 96 tips/tray, 10 trays/pack
3570	HLT Titertek 300	300 μ l Pipet Tip, Clear, Graduations at 10, 50, 100 & 200 μ l	Bulk, non-sterile, 1000 tips/bag
Titertek 1500μl			
D 3893	HLT Titertek 1500	1500 μ l Pipet Tip, Clear, Fits Titertek Multi-Stepper	Racked, pre-sterilized 96 tips/tray, 10 trays/pack

For pipettor tip fits information see appendix page 137





VOLUME 1200 μ L TO 1300 μ L SPECIALTY TIPS~BIOHIT AND MATRIX STYLE

Catalog Number	Product	Description	Unit Packaging
Biohit 1200μl			
A 3801	HLT 1200	1200 μ l Pipet Tip, Clear Fits Biohit Proline Pipettor	Racked, pre-sterilized 96 tips/tray, 10 trays/pk
3802	HLT 1200	1200 μ l Pipet Tip, Clear Fits Biohit Proline Pipettor	Racked, non-sterile 96 tips/tray, 10 trays/pk
3800	HLT 1200	1200 μ l Pipet Tip, Clear Fits Biohit Proline Pipettor	Bulk, non-sterile, 1000 tips/bag
Matrix 1250μl			
B 3681	HLT 1250	1250 μ l Pipet Tip, Clear Fits Matrix Pipettor	Racked, pre-sterilized 96 tips/tray, 10 trays/pk
3682	HLT 1250	1250 μ l Pipet Tip, Clear Fits Matrix Pipettor	Racked, non-sterile 96 tips/tray, 10 trays/pk
3680	HLT 1250	1250 μ l Pipet Tip, Clear Fits Matrix Pipettor	Bulk, non-sterile, 1000 tips/bag
Matrix 1300μl			
C 3891	HLT 1300	1300 μ l Pipet Tip, Clear Fits Matrix Pipettor	Racked, non-sterile 96 tips/tray, 10 trays/pk
3892	HLT 1300	1300 μ l Pipet Tip, Clear Fits Matrix Pipettor	Racked, pre-sterilized 96 tips/tray, 10 trays/pk
3890	HLT 1300	1300 μ l Pipet Tip, Clear Fits Matrix Pipettor	Bulk, non-sterile, 1000 tips/bag

For Pipettor Tip Fits Information see Appendix on page 137

EXAMINE THE TIP BEFORE DISPENSING SAMPLE

Wipe the tip only if there is liquid on the outside of the tip, and then, very carefully.

Absorbent material will rapidly absorb sample from the tip if it contacts the tip opening. Unnecessary tip wiping increases the possibility of sample loss.

