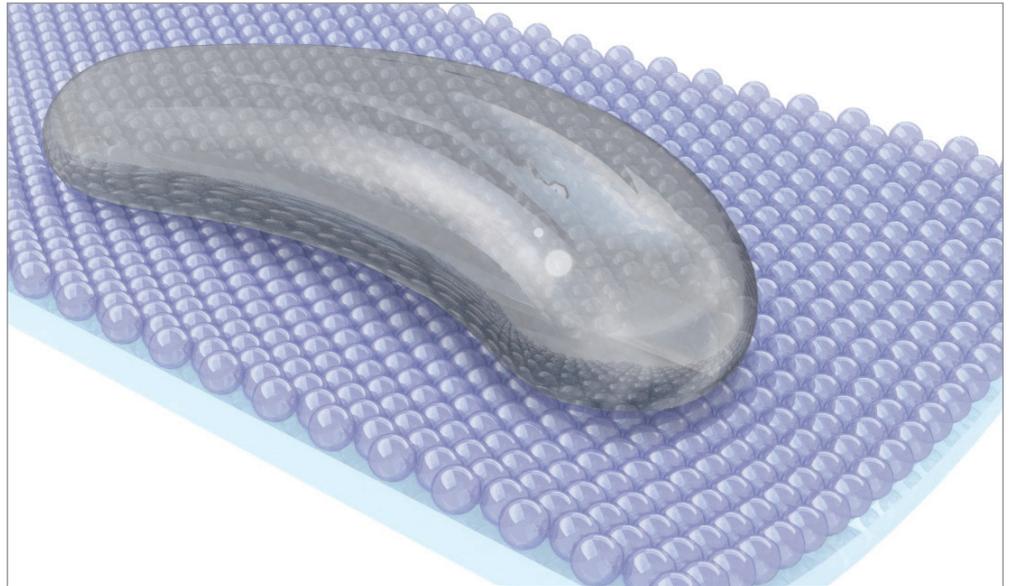


Rainin LR Low Retention Tips Advanced Repellent Surface



Rainin LR low retention tips improve pipetting accuracy over a broad range of liquids. The superhydrophobic tip surface dramatically enhances the flow of commonly used liquids, resulting in more complete aspiration and minimizing liquid retention during dispensing.

Viscous liquids and those with low surface tension or hydrophobic properties are more likely to adhere to a tip's surface and restrict the flow of liquid, directly affecting pipetting accuracy.

METTLER TOLEDO employs a special process to achieve a uniform field of large, highly-repellent atoms that form an impenetrable electron field across the entire tip surface. Liquids and molecules are prevented from making direct contact with the polypropylene surface, allowing even difficult liquids to glide effortlessly in and out of the tip.

Inferior manufacturing methods involve dipping or tumbling tips in a fluoropolymer bath after the tips are molded, which can produce "dead zones" (incomplete coverage) and uneven layers of fluoropolymer. And tips made with "diamond polished" molds – often promoted as low retention – do nothing to prevent samples from reacting with the polypropylene and binding to the surface.

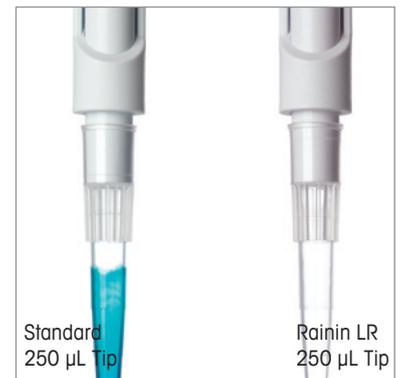
Rainin LR Low Retention Tips

Improve Pipetting Accuracy

- Superhydrophobic surface minimizes residual volumes
- Uniform fluoropolymer surface field for smooth, superior fluid movement
- Higher pipetting accuracy with many common liquids
- Wide range of tip sizes and packaging options
- LifeTouch™ System (LTS™) and universal tip formats

Significantly less residual volume

The uniform repellent fluopolymer “field” in Rainin LR tips prevents any interaction between the samples and the tip surface. Shown here, a propylene glycol-based food colorant demonstrates how Rainin LR tips eliminate sheeting, dramatically reducing residual volume after dispensing.



BioClean™ quality

Strict quality testing assures absolute cleanliness and purity of Rainin LR tips. Each tip lot is rigorously tested and certified to be free of these biological contaminants:

- | | |
|---------|------------------|
| • DNA | • Pyrogen |
| • DNase | • ATP |
| • RNase | • PCR inhibitors |



Many sizes, styles

Tip styles and sizes for every application. Universal (UNV) tips fit all brands of pipettes.

- | | |
|-------------------|----------------|
| • LTS™ | • Sterile |
| • Universal (UNV) | • Filtered |
| • Liquidator™ 96 | • Wide-orifice |





Rainin LR tips feature a dense, absolutely uniform fluoropolymer field on the tip surface that cannot detach or leach and is completely resistant to autoclaving.

Ordering Information



For Pipettes with LTS™ Shafts

MT Order No.	Description	Max. Capacity
Low retention tips in removable-cover RT-racks		
17007955	RT-L10LR 960 Low retention LTS tips in 10 racks	20 µL
17007956	RT-L10SLR 960 Low retention LTS tips in 10 racks, presterilized	20 µL
17007957	RT-L10FLR 960 Low retention LTS tips in 10 racks, presterilized, filter	20 µL
17007961	RT-L200FLR 960 Low retention LTS tips in 10 racks, presterilized, filter	200 µL
17007959	RT-L250LR 960 Low retention LTS tips in 10 racks	200 µL
17007960	RT-L250SLR 960 Low retention LTS tips in 10 racks, presterilized	200 µL
17007952	RT-L1000LR 768 Low retention LTS tips in 8 racks	1000 µL
17007953	RT-L1000SLR 768 Low retention LTS tips in 8 racks, presterilized	1000 µL
17007954	RT-L1000FLR 768 Low retention LTS tips in 8 racks, presterilized, filter	1000 µL
17008026	RT-L1200LR 768 Low retention LTS tips in 8 racks	1200 µL
17008027	RT-L1200SLR 768 Low retention LTS tips in 8 racks, presterilized	1200 µL
17008028	RT-L1200FLR 768 Low retention LTS tips in 8 racks, presterilized, filter	1200 µL
Wide-orifice low retention tips in removable-cover RT-racks		
17014294	RT-L200WFLR 960 Low retention wide-orifice LTS tips in 10 racks, presterilized, filter	200 µL
17014292	RT-L250WLR 960 Low retention wide-orifice LTS tips in 10 racks	200 µL
17014293	RT-L250WSLR 960 Low retention wide-orifice LTS tips in 10 racks, presterilized	200 µL
17014295	RT-L1000WLR 768 Low retention wide-orifice LTS tips in 8 racks	1000 µL
17014296	RT-L1000WSLR 768 Low retention wide-orifice LTS tips in 8 racks, presterilized	1000 µL
17014297	RT-L1000WFLR 768 Low retention wide-orifice LTS tips in 8 racks, presterilized, filter	1000 µL
Low retention tips in Green-Pak SpaceSaver stacked refills for RT-racks		
17014307	GPS-L10LR 960 Low retention LTS tips in 10 refills	20 µL
17014335	GPS-L10SLR 960 Low retention LTS tips in 10 refills, presterilized	20 µL
17014336	GPS-L250LR 960 Low retention LTS tips in 10 refills	200 µL
17014337	GPS-L250SLR 960 Low retention LTS tips in 10 refills, presterilized	200 µL
17014338	GPS-L1000LR 768 Low retention LTS tips in 8 refills	1000 µL
17014339	GPS-L1000SLR 768 Low retention LTS tips in 8 refills, presterilized	1000 µL
Bulk low retention tips		
17014340	RC-L10LR 1000 Low retention LTS tips in bags	20 µL
17014341	RC-L250LR 1000 Low retention LTS tips in bags	200 µL
17014342	RC-L1000LR 1000 Low retention LTS tips in bags	1000 µL



Liquidator Low Retention LTS Tips

Liquidator 96 low retention tips in removable-cover racks

17014399	LQR-20SLR	960 Low retention LTS tips in 10 racks, presterilized	20 µL
17014400	LQR-20FLR	960 Low retention LTS tips in 10 racks, presterilized, filter	20 µL
17014401	LQR-200SLR	960 Low retention LTS tips in 10 racks, presterilized	200 µL
17014402	LQR-200FLR	960 Low retention LTS tips in 10 racks, presterilized, filter	200 µL

Low retention tips in stacked refills for Liquidator racks

17014403	LQS-20SLR	960 Low retention LTS tips in 10 refills, presterilized	20 µL
17014404	LQS-200SLR	960 Low retention LTS tips in 10 refills, presterilized	200 µL

Liquidator low retention LTS tips are for use with Rainin Liquidator 96 benchtop pipetting system only.



Rainin LR Low Retention Tips

Ordering Information (continued)

For pipettes with universal-fit shafts

MT Order No.	Description	Max. Capacity
Low retention tips in removable-cover RT-racks		
17014343	RT-10LR 960 Low retention tips in 10 racks	10 µL
17014344	RT-10SLR 960 Low retention tips in 10 racks, presterilized	10 µL
17014345	RT-10FLR 960 Low retention tips in 10 racks, presterilized, filter	10 µL
17014347	RT-10GLR 960 Low retention ShaffGard tips in 10 racks	10 µL
17014348	RT-10GSLR 960 Low retention ShaffGard tips in 10 racks, presterilized	10 µL
17014349	RT-10GFLR 960 Low retention ShaffGard tips in 10 racks, presterilized, filter	10 µL
17014351	RT-20FLR 960 Low retention tips in 10 racks, presterilized, filter	30 µL
17014352	RT-100FLR 960 Low retention tips in 10 racks, presterilized, filter	100 µL
17014356	RT-200FLR 960 Low retention tips in 10 racks, presterilized, filter	200 µL
17007958	RT-250LR 960 Low retention tips in 10 racks	250 µL
17014354	RT-250SLR 960 Low retention tips in 10 racks, presterilized	250 µL
17014359	RT-1000LR 768 Low retention tips in 8 racks	1000 µL
17014360	RT-1000SLR 768 Low retention tips in 8 racks, presterilized	1000 µL
17014361	RT-1000FLR 768 Low retention tips in 8 racks, presterilized, filter	1000 µL
Wide-orifice low retention tips in removable-cover RT-racks		
17014364	RT-200WFLR 960 Low retention wide-orifice tips in 10 racks, presterilized, filter	200 µL
17014362	RT-250WLR 960 Low retention wide-orifice tips in 10 racks	250 µL
17014363	RT-250WSLR 960 Low retention wide-orifice tips in 10 racks, presterilized	250 µL
Low retention tips in Green-Pak SpaceSaver stacked refills for RT-racks		
17014381	GPS-10GLR 960 Low retention ShaffGard tips in 10 refills	10 µL
17014383	GPS-10GSLR 960 Low retention ShaffGard tips in 10 refills, presterilized	10 µL
17014385	GPS-250LR 960 Low retention tips in 10 refills	250 µL
17014386	GPS-250SLR 960 Low retention tips in 10 refills, presterilized	250 µL
17014387	GPS-1000LR 768 Low retention tips in 8 refills	1000 µL
17014394	GPS-1000SLR 768 Low retention tips in 8 refills, presterilized	1000 µL
Universal low retention bulk tips		
17014395	RC-10LR 1000 Low retention tips in bags	10 µL
17014396	RC-10GLR 1000 Low retention ShaffGard tips in bags	10 µL
17014397	RC-250LR 1000 Low retention tips in bags	250 µL
17014398	RC-1000LR 1000 Low retention tips in bags	1000 µL
17015068	RC-1000WLR 1000 Low retention wide-orifice tips in bags	1000 µL

RAININ TRADEMARKS: Rainin, Pipetting 360°, LTS, LiteTouch, BioClean, Liquidator, Green-Pak, and SpaceSaver are trademarks of Mettler-Toledo Rainin, LLC.



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Subject to technical changes

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