

# Pipette Tips

**RAININ**

Pipetting 360°



**BioClean Ultra™**

Guaranteed Purity

Hinged-lid Rack

Space-saving Refills

LTS® and Universal

## Purity and Performance

Rainin BioClean Ultra Tips Deliver

**METTLER TOLEDO**

# Enhanced Purity Standards

## Guaranteed Quality and Performance

**BioClean Ultra™** ... the new benchmark for tip purity and performance

BioClean has long been the standard for assuring customers that Rainin tips are pristine and free of biological contaminants. With BioClean Ultra, we've made these industry-leading measures for purity even more comprehensive. For proteomics researchers, we have added protein and protease to our testing regimen.

In concert with the development of the BioClean Ultra quality testing process, we redesigned the packaging for our racked tips, Green-Pak® and Green-Pak SpaceSaver® products. The result is an integrated rack and refill system that provides greater utility and ease of use, higher cleanliness and less environmental impact.

### Why Rainin?

When it comes to purity, performance and attention to detail, we think you'll agree that no other tip, rack and refill system comes close.



#### BioClean Ultra = Ultra Pure

Our tips are manufactured in Class 100,000 cleanroom conditions, rigorously tested for a broad range of contaminants, including protein and protease, and carefully packaged to protect their purity.



#### Hinged Lid Also Lifts off

Thoughtful design and precision engineering have resulted in a hinge that holds the lid open at a full 120° – perfect for fully or partially loading an 8- or 12-channel pipette. Press further and it gently releases.



#### Opens with One Hand

The safety latch on the front of the rack prevents tips from accidental spills. The latch opens easily with gentle pressure from your thumb and index fingers.

## An integrated rack and refill system



Hinged/removable lid rack (RT)

Green-Pak® (GP)



### Multichannel-Friendly

The walls of the tip box are tapered to allow full or partial tip loading from any angle. Even in hinged mode, the opened lid allows complete, unobstructed access to the tip deck.



### Easy-Read Labels

High-resolution labeling on the front of the racks provides product details in an easy-read format. The colored tip decks extend along the perimeter of the box, making the volume readily apparent.



### Less Plastic, Lighter Weight

Integrating the tip deck and base adds strength and stability. The result: we've reduced the amount of plastic used in each by an average of 20%. Less plastic means less weight and less plastic waste.



### Fully Autoclavable

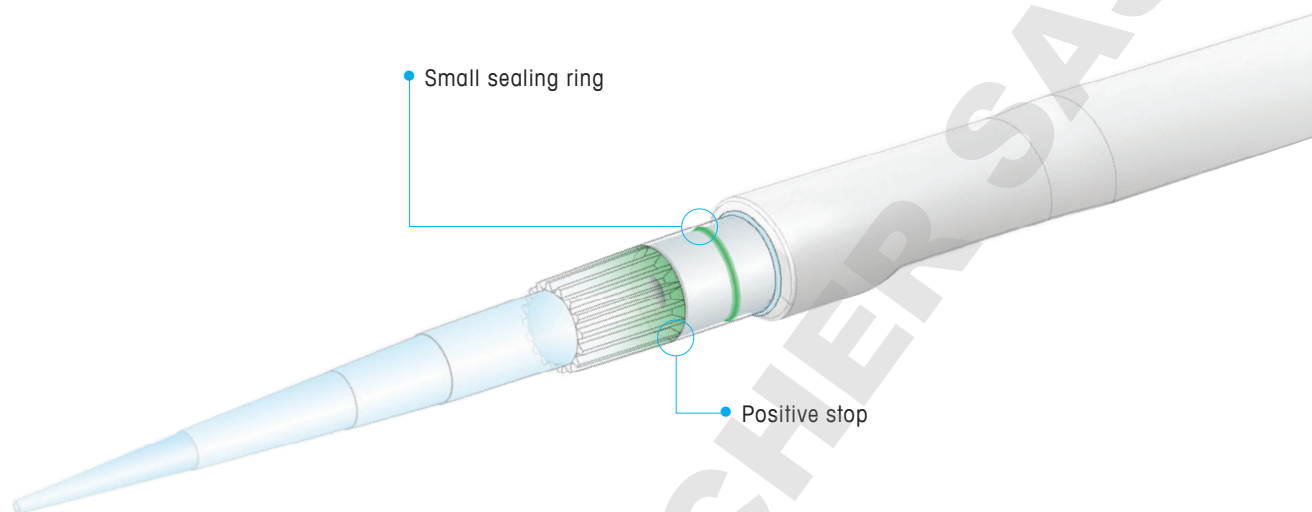
Our new racks are fully autoclavable and can withstand many trips through the autoclave. They're refillable with the Green-Pak single rack refill or from our SpaceSaver stacked refill system.

# LTS LiteTouch System Tips

## Standard, Filter, Low Retention, Wide Orifice and Extended Length

	Item No.	Description		Max. Capacity
	Hinged-lid RT-racks			
10	30389200	RT-LTS-A-10µL-960/10	960 LTS tips in 10 racks	20 µL
	30389228	RT-LTS-A-10µL-/S-960/10	960 LTS tips in 10 racks, sterilized	20 µL
	30389225	RT-LTS-A-10µL-/F-960/10	960 LTS tips in 10 racks, sterilized, filter	20 µL
	30389227	RT-LTS-A-10µL-/L-960/10	960 LTS low retention tips in 10 racks	20 µL
	30389229	RT-LTS-A-10µL-/L/S-960/10	960 LTS low retention tips in 10 racks, sterilized	20 µL
	30389226	RT-LTS-A-10µL-/F/L-960/10	960 LTS low retention tips in 10 racks, sterilized, filter	20 µL
200/250	30389243	RT-LTS-A-250µL-960/10	960 LTS tips in 10 racks	200 µL
	30389245	RT-LTS-A-250µL-/S-960/10	960 LTS tips in 10 racks, sterilized	200 µL
	30389239	RT-LTS-A-200µL-/F-960/10	960 LTS tips in 10 racks, sterilized, filter	200 µL
	30389244	RT-LTS-A-250µL-/L-960/10	960 LTS low retention tips in 10 racks	200 µL
	30389246	RT-LTS-A-250µL-/L/S-960/10	960 LTS low retention tips in 10 racks, sterilized	200 µL
	30389240	RT-LTS-A-200µL-/F/L-960/10	960 LTS low retention tips in 10 racks, sterilized, filter	200 µL
	30389247	RT-LTS-A-250µL-/W-960/10	960 LTS wide-orifice tips in 10 racks	200 µL
	30389249	RT-LTS-A-250µL-/S/W-960/10	960 LTS wide-orifice tips in 10 racks, sterilized	200 µL
	30389248	RT-LTS-A-250µL-/L/W-960/10	960 LTS low retention wide-orifice tips in 10 racks	200 µL
	30389250	RT-LTS-A-250µL-/L/S/W-960/10	960 LTS low retention wide-orifice tips in 10 racks, sterilized	200 µL
	30389241	RT-LTS-A-200µL-/F/L/W-960/10	960 LTS low retention wide-orifice tips in 10 racks, sterilized, filter	200 µL
	30389251	RT-LTS-A-250µL-/X-768/8	768 LTS extended-length tips in 8 racks	200 µL
	30389252	RT-LTS-A-250µL-/S/X-768/8	768 LTS extended-length tips in 8 racks, sterilized	200 µL
	30389242	RT-LTS-A-200µL-/F/X-768/8	768 LTS extended-length tips in 8 racks, sterilized, filter	200 µL
300	30389253	RT-LTS-A-300µL-768/8	768 LTS tips in 8 racks	300 µL
	30389255	RT-LTS-A-300µL-/S-768/8	768 LTS tips in 8 racks, sterilized	300 µL
	30389254	RT-LTS-A-300µL-/F-768/8	768 LTS tips in 8 racks, sterilized, filter	300 µL
	30389160	RT-LTS-A-300µL-/L-768/8	768 LTS low retention tips in 8 racks	300 µL
	30389161	RT-LTS-A-300µL-/L/S-768/8	768 LTS low retention tips in 8 racks, sterilized	300 µL
	30389162	RT-LTS-A-300µL-/F/L-768/8	768 LTS low retention tips in 8 racks, sterilized, filter	300 µL
1000	30389211	RT-LTS-A-1000µL-768/8	768 LTS tips in 8 racks	1000 µL
	30389215	RT-LTS-A-1000µL-/S-768/8	768 LTS tips in 8 racks, sterilized	1000 µL
	30389212	RT-LTS-A-1000µL-/F-768/8	768 LTS tips in 8 racks, sterilized, filter	1000 µL
	30389214	RT-LTS-A-1000µL-/L-768/8	768 LTS low retention tips in 8 racks	1000 µL
	30389216	RT-LTS-A-1000µL-/L/S-768/8	768 LTS low retention tips in 8 racks, sterilized	1000 µL
	30389213	RT-LTS-A-1000µL-/F/L-768/8	768 LTS low retention tips in 8 racks, sterilized, filter	1000 µL
	30389217	RT-LTS-A-1000µL-/W-768/8	768 LTS wide-orifice tips in 8 racks	1000 µL
	30389220	RT-LTS-A-1000µL-/S/W-768/8	768 LTS wide-orifice tips in 8 racks, sterilized	1000 µL
	30389219	RT-LTS-A-1000µL-/L/W-768/8	768 LTS low retention wide-orifice tips in 8 racks	1000 µL
	30389221	RT-LTS-A-1000µL-/L/S/W-768/8	768 LTS low retention wide-orifice tips in 8 racks, sterilized	1000 µL
	30389218	RT-LTS-A-1000µL-/F/L/W-768/8	768 LTS low retention wide-orifice tips in 8 racks, sterilized, filter	1000 µL
	30389222	RT-LTS-A-1000µL-/X-768/8	768 LTS extended-length tips in 8 racks	1200 µL
	30389224	RT-LTS-A-1000µL-/S/X-768/8	768 LTS extended-length tips in 8 racks, sterilized	1200 µL
	30389223	RT-LTS-A-1000µL-/F/X/768/8	768 LTS extended-length tips in 8 racks, sterilized, filter	1200 µL
1200	30389230	RT-LTS-A-1200µL-768/8	768 LTS tips in 8 racks	1200 µL
	30389234	RT-LTS-A-1200µL-/S-768/8	768 LTS tips in 8 racks, sterilized	1200 µL
	30389231	RT-LTS-A-1200µL-/F-768/8	768 LTS tips in 8 racks, sterilized, filter	1200 µL
	30389233	RT-LTS-A-1200µL-/L-768/8	768 LTS low retention tips in 8 racks	1200 µL
	30389235	RT-LTS-A-1200µL-/L/S-768/8	768 LTS low retention tips in 8 racks, sterilized	1200 µL
	30389232	RT-LTS-A-1200µL-/F/L-768/8	768 LTS low retention tips in 8 racks, sterilized, filter	1200 µL
2 mL	30389236	RT-LTS-A-2000µL-480/8	480 LTS tips in 8 racks	2000 µL
	30389238	RT-LTS-A-2000µL-/S-480/8	480 LTS tips in 8 racks, sterilized	2000 µL
	30389237	RT-LTS-A-2000µL-/F-480/8	480 LTS tips in 8 racks, sterilized, filter	2000 µL
5 mL	30389256	RT-LTS-A-5000µL-192/8	192 LTS tips in 8 racks	5000 µL
	30389257	RT-LTS-A-5000µL-/S-192/8	192 LTS tips in 8 racks, sterilized	5000 µL

## Nothing beats the Rainin LTS® LiteTouch® System for pipetting comfort



### LTS Tip Refills for Hinged-lid Racks

Item No.	Description	Max. Capacity
Green-Pak SpaceSaver stacked refills for hinged-lid RT-racks (empty rack not included!)*		
10	<b>30389291</b> GPS-LTS-A-10µL-960/10	960 LTS tips in 10 refills
	<b>30389297</b> GPS-LTS-A-10µL-/S-960/10	960 LTS tips in 10 refills, sterilized
	<b>30389296</b> GPS-LTS-A-10µL-/L-960/10	960 LTS low retention tips in 10 refills
	<b>30389298</b> GPS-LTS-A-10µL-/L/S-960/10	960 LTS low retention tips in 10 refills, sterilized
250	<b>30389299</b> GPS-LTS-A-250µL-960/10	960 LTS tips in 10 refills
	<b>30389301</b> GPS-LTS-A-250µL-/S-960/10	960 LTS tips in 10 refills, sterilized
	<b>30389300</b> GPS-LTS-A-250µL-/L-960/10	960 LTS low retention tips in 10 refills
	<b>30389302</b> GPS-LTS-A-250µL-/L/S-960/10	960 LTS low retention tips in 10 refills, sterilized
300	<b>30389303</b> GPS-LTS-A-300µL-768/8	768 LTS tips in 8 refills
	<b>30389304</b> GPS-LTS-A-300µL-/S-768/8	768 LTS tips in 8 refills, sterilized
1000	<b>30389292</b> GPS-LTS-A-1000µL-768/8	768 LTS tips in 8 refills
	<b>30389294</b> GPS-LTS-A-1000µL-/S-768/8	768 LTS tips in 8 refills, sterilized
	<b>30389293</b> GPS-LTS-A-1000µL-/L-768/8	768 LTS low retention tips in 8 refills
	<b>30389295</b> GPS-LTS-A-1000µL-/L/S-768/8	768 LTS low retention tips in 8 refills, sterilized
Green-Pak individual refills for hinged-lid RT-racks		
10	<b>30389270</b> GP-LTS-A-10µL-960/10	960 LTS tips in 10 refills
	<b>30389275</b> GP-LTS-A-10µL-/S-960/10	960 LTS tips in 10 refills, sterilized
	<b>30389274</b> GP-LTS-A-10µL-/F-960/10	960 LTS tips in 10 refills, sterilized, filter
200/250	<b>30389277</b> GP-LTS-A-250µL-960/10	960 LTS tips in 10 refills
	<b>30389278</b> GP-LTS-A-250µL-/S-960/10	960 LTS tips in 10 refills, sterilized
	<b>30389276</b> GP-LTS-A-200µL-/F-960/10	960 LTS tips in 10 refills, sterilized, filter
1000	<b>30389271</b> GP-LTS-A-1000µL-768/8	768 LTS tips in 8 refills
	<b>30389273</b> GP-LTS-A-1000µL-/S-768/8	768 LTS tips in 8 refills, sterilized
	<b>30389272</b> GP-LTS-A-1000µL-/F-768/8	768 LTS tips in 8 refills, sterilized, filter
Empty hinged-lid RT racks for use with Green-Pak and Green-Pak SpaceSaver refills*		
<b>30389354</b>	GPR-LTS-A-10µL-0/10	Empty racks for 20 µL tips, red, 10/pkg**
<b>30389353</b>	GPR-XXX-A-250µL-0/10	Empty racks for 200/250 µL tips, green, 10/pkg
<b>30397667</b>	GPR-XXX-A-300µL-0/8	Empty racks for 300 µL tips, yellow, 8/pkg
<b>30389351</b>	GPR-XXX-A-1000µL-0/8	Empty racks for 1000 µL tips, blue, 8/pkg

\* SpaceSaver no longer comes with an extra rack. When ordering BioClean Ultra tips for the first time, purchase empty racks or racked tips in a matching size to use this refill system.

\*\* Can be also used with UNV 10 µL ShaftGuard™ tips.

Use our online Tip Finder to see which Rainin tip fits your LTS pipette: ► [www.mt.com/TipFinder](http://www.mt.com/TipFinder)



# Universal-Fit Tips

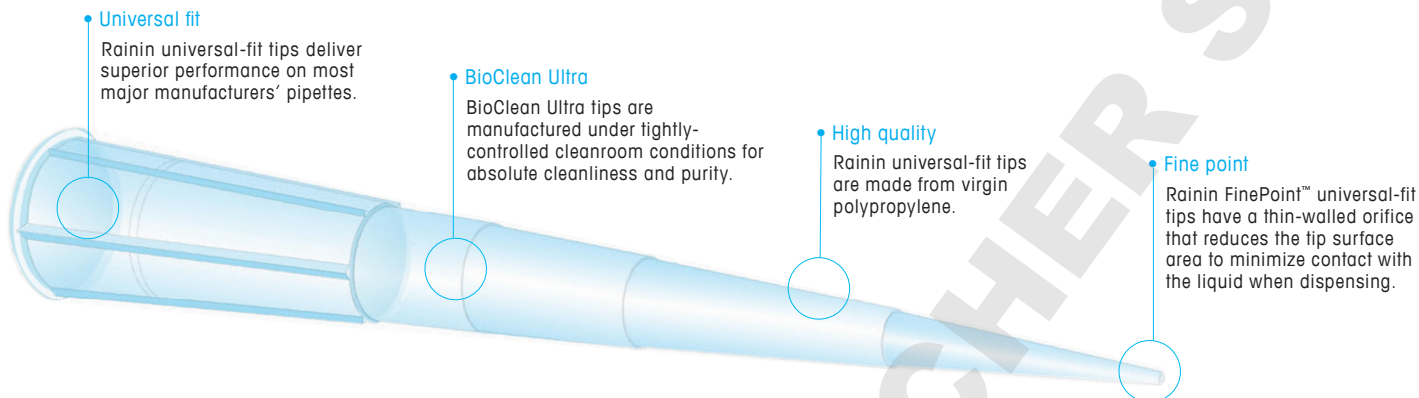
## Standard, Filter, Low Retention and Wide Orifice

	Item No.	Description	Max. Capacity	
	Hinged-lid RT-racks			
10	30389163	RT-UNV-A-10µL-960/10	960 tips in 10 racks	
	30389181	RT-UNV-A-10µL-/S-960/10	960 tips in 10 racks, sterilized	
	30389172	RT-UNV-A-10µL-/F-960/10	960 tips in 10 racks, sterilized, filter	
	30389180	RT-UNV-A-10µL-/L-960/10	960 low retention tips in 10 racks	
	30389182	RT-UNV-A-10µL-/L/S-960/10	960 low retention tips in 10 racks	
	30389173	RT-UNV-A-10µL-/F/L-960/10	960 low retention tips in 10 racks, sterilized, filter	
	10 - ShaffGard (G)	30389174	RT-UNV-A-10µL-/G-960/10	960 ShaffGard tips in 10 racks
		30389178	RT-UNV-A-10µL-/G/S-960/10	960 ShaffGard tips in 10 racks, sterilized
		30389175	RT-UNV-A-10µL-/F/G-960/10	960 ShaffGard tips in 10 racks, sterilized, filter
		30389177	RT-UNV-A-10µL-/G/L-960/10	960 ShaffGard low retention tips in 10 racks
30389179		RT-UNV-A-10µL-/G/L/S-960/10	960 ShaffGard low retention tips in 10 racks, sterilized	
30389176		RT-UNV-A-10µL-/F/G/L-960/10	960 ShaffGard low retention tips in 10 racks, sterilized, filter	
30/100/200/250		30389189	RT-UNV-A-20µL-/F-960/10	960 tips in 10 racks, sterilized, filter
		30389190	RT-UNV-A-20µL-/F/L-960/10	960 low retention tips in 10 racks, sterilized, filter
		30389170	RT-UNV-A-100µL-/F-960/10	960 tips in 10 racks, sterilized, filter
		30389171	RT-UNV-A-100µL-/F/L-960/10	960 low retention tips in 10 racks, sterilized, filter
	30389191	RT-UNV-A-250µL-960/10	960 tips in 10 racks	
	30389193	RT-UNV-A-250µL-/S-960/10	960 tips in 10 racks, sterilized	
	30389186	RT-UNV-A-200µL-/F-960/10	960 tips in 10 racks, sterilized, filter	
	30389192	RT-UNV-A-250µL-/L-960/10	960 low retention tips in 10 racks	
	30389194	RT-UNV-A-250µL-/L/S-960/10	960 low retention tips in 10 racks, sterilized	
	30389187	RT-UNV-A-200µL-/F/L-960/10	960 low retention tips in 10 racks, sterilized, filter	
	30389195	RT-UNV-A-250µL-/W-960/10	960 wide-orifice tips in 10 racks	
	30389196	RT-UNV-A-250µL-/L/W-960/10	960 low retention wide-orifice tips in 10 racks	
	30389197	RT-UNV-A-250µL-/L/S/W-960/10	960 low retention wide-orifice tips in 10 racks, sterilized	
	30389188	RT-UNV-A-200µL-/F/L/W-960/10	960 low retention wide-orifice tips in 10 racks, sterilized, filter	
300	30389058	RT-UNV-A-300µL-768/8	768 tips in 8 racks	
	30389059	RT-UNV-A-300µL-/S-768/8	768 tips in 8 racks, sterilized	
	30389136	RT-UNV-A-300µL-/F-768/8	768 tips in 8 racks, sterilized, filter	
	30389137	RT-UNV-A-300µL-/L-768/8	768 low retention tips in 8 racks	
	30389138	RT-UNV-A-300µL-/L/S-768/8	768 low retention tips in 8 racks, sterilized	
	30389139	RT-UNV-A-300µL-/F/L-768/8	768 low retention tips in 8 racks, sterilized, filter	
	1000	30389164	RT-UNV-A-1000µL-768/8	768 tips in 8 racks
30389168		RT-UNV-A-1000µL-/S-768/8	768 tips in 8 racks, sterilized	
30389165		RT-UNV-A-1000µL-/F-768/8	768 tips in 8 racks, sterilized, filter	
30389167		RT-UNV-A-1000µL-/L-768/8	768 low retention tips in 8 racks	
30389169		RT-UNV-A-1000µL-/L/S-768/8	768 low retention tips in 8 racks, sterilized	
30389166		RT-UNV-A-1000µL-/F/L-768/8	768 low retention tips in 8 racks, sterilized, filter	
2 mL	30389183	RT-UNV-A-2000µL-480/8	480 tips in 8 racks	
	30389185	RT-UNV-A-2000µL-/S-480/8	480 tips in 8 racks, sterilized	
	30389184	RT-UNV-A-2000µL-/F-480/8	480 tips in 8 racks, sterilized, filter	
	5 mL	30389198	RT-UNV-A-5000µL-192/8	192 tips in 8 racks
30389199		RT-UNV-A-5000µL-/S-192/8	192 tips in 8 racks, sterilized	

Use our online Tip Finder to see which Rainin tip fits your LTS pipette: [www.mt.com/TipFinder](http://www.mt.com/TipFinder)

## Rainin universal-fit tips for superior quality and performance

Rainin universal-fit tips provide outstanding performance for Rainin pipettes without LTS and most other pipette brands, including Gilson®, Eppendorf®, Sartorius® (BioHit®), ThermoFisher® (Finnpipette®) and VWR®.



## Universal Tip Refills for Hinged-lid Racks

	Item No.	Description	Max. Capacity	
Green-Pak SpaceSaver stacked refills for hinged-lid RT-racks (empty rack not included!)*				
10 (G)	30389283	GPS-UNV-A-10µL-/G-960/10	960 ShaffGard tips in 10 refills	10 µL
	30389285	GPS-UNV-A-10µL-/G/S-960/10	960 ShaffGard tips in 10 refills, sterilized	10 µL
	30389284	GPS-UNV-A-10µL-/G/L-960/10	960 ShaffGard low retention tips in 10 refills	10 µL
	30389286	GPS-UNV-A-10µL-/G/L/S-960/10	960 ShaffGard low retention tips in 10 refills, sterilized	10 µL
250	30389287	GPS-UNV-A-250µL-960/10	960 tips in 10 refills	250 µL
	30389289	GPS-UNV-A-250µL-/S-960/10	960 tips in 10 refills, sterilized	250 µL
	30389288	GPS-UNV-A-250µL-/L-960/10	960 low retention tips in 10 refills	250 µL
	30389290	GPS-UNV-A-250µL-/L/S-960/10	960 low retention tips in 10 refills, sterilized	250 µL
300	30397665	GPS-UNV-A-300µL-768/8	768 tips in 8 refills	300 µL
	30397666	GPS-UNV-A-300µL-/S-768/8	768 tips in 8 refills, sterilized	300 µL
1000	30389279	GPS-UNV-A-1000µL-768/8	768 tips in 8 refills	1000 µL
	30389281	GPS-UNV-A-1000µL-/S-768/8	768 tips in 8 refills, sterilized	1000 µL
	30389280	GPS-UNV-A-1000µL-/L-768/8	768 ShaffGard low retention tips in 8 refills	1000 µL
	30389282	GPS-UNV-A-1000µL-/L/S-768/8	768 ShaffGard low retention tips in 8 refills, sterilized	1000 µL
Green-Pak individual refills for hinged-lid RT-racks				
10 (G)/ 10	30389258	GP-UNV-A-10µL-960/10	960 tips in 10 refills	10 µL
	30389265	GP-UNV-A-10µL-/S-960/10	960 tips in 10 refills, sterilized	10 µL
	30389263	GP-UNV-A-10µL-/F-960/10	960 tips in 10 refills, sterilized, filter	10 µL
	30389264	GP-UNV-A-10µL-/F/G-960/10	960 ShaffGard tips in 10 refills, sterilized, filter	10 µL
30/100/200/250	30389267	GP-UNV-A-20µL-/F-960/10	960 tips in 10 refills, sterilized, filter	30 µL
	30389262	GP-UNV-A-100µL-/F-960/10	960 tips in 10 refills, sterilized, filter	100 µL
	30389266	GP-UNV-A-200µL-/F-960/10	960 tips in 10 refills, sterilized, filter	200 µL
	30389268	GP-UNV-A-250µL-960/10	960 tips in 10 refills	250 µL
1000	30389269	GP-UNV-A-250µL-/S-960/10	960 tips in 10 refills, sterilized	250 µL
	30389259	GP-UNV-A-1000µL-768/8	768 tips in 8 refills	1000 µL
	30389261	GP-UNV-A-1000µL-/S-768/8	768 tips in 8 refills, sterilized	1000 µL
	30389260	GP-UNV-A-1000µL-/F-768/8	768 tips in 8 refills, sterilized, filter	1000 µL
Empty hinged-lid RT racks for use with Green-Pak and Green-Pak SpaceSaver refills*				
	30389350	GPR-UNV-A-10µL-0/10	Empty racks for 10 µL tips, purple, 10/pkg	
	30389354	GPR-LTS-A-10µL-0/10	Empty racks for 20 µL tips, red, 10/pkg**	
	30389353	GPR-XXX-A-250µL-0/10	Empty racks for 200/250 µL tips, green, 10/pkg	
	30397667	GPR-XXX-A-300µL-0/8	Empty racks for 300 µL tips, yellow, 8/pkg	
	30389351	GPR-XXX-A-1000µL-0/8	Empty racks for 1000 µL tips, blue, 8/pkg	

\* SpaceSaver no longer comes with an extra rack. When ordering BioClean Ultra tips for the first time, purchase empty racks or racked tips in a matching size to use this refill system.

\*\* Can be also used with UNV 10 µL ShaffGard tips.

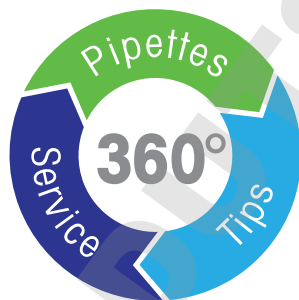
# Pipetting 360°

## Your Performance Guarantee

Pipetting is a system: the pipette, the tip and periodic calibration

- Quality, performance and extraordinary comfort are why Rainin pipettes are industry leading.
- Rainin pipette shafts and tips are designed to work together, so they load smoothly and comfortably.
- For calibration or service, no one is more experienced or knowledgeable about your Rainin pipette than your Rainin or Mettler Toledo service technician.

Why risk your research with poor pipetting performance?  
For your pipetting system, choose Rainin!



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