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USA Product Catalog 2023

Products for the Life Sciences

MicroPro 20 and 300

Feature-packed 96-channel electronic pipettor that's both portable and highly affordable | **See page 18**

NanoRep Repeater NEW

Avoid contact contamination with No Touch Off™ dispense.
100 nL – 50 mL | **See page 26**

NEW PRODUCTS

Improve Your Workflows with Speed and Ease!

SP+ Pipette Controller NEW

For use with Rainin serological pipettes 1 mL to 100 mL | **See page 28**

Pipettes

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Rainin Pipet-Lite XLS+

Performance You Can Feel

Rainin Pipet-Lite® XLS+ raises the bar on comfort, performance and control. Many volume sizes available in both LTS LTS and universal UNV formats.

Smooth operation

The sealing system on XLS+ pipettes delivers a plunger stroke that is smooth, precise and requires less force than before. Perfect for pipetting applications that require delicate control!

Highly accurate

Built to last and manufactured with premium quality materials, XLS+ pipettes are designed to deliver superior performance, year after year.

Autoclavable

XLS+ single-channel pipettes are designed for easy autoclaving where it counts: the complete liquid end, including the seals and piston. Autoclaving won't compromise performance or feel.

Total comfort

With sure-fit handles, contoured fingerhooks, lighter springs and low-drag seals, you can comfortably use Pipet-Lite XLS+ pipettes all day.

A better tip ejector

The tip ejector is made from a high density polymer that is corrosion free, autoclavable and highly resistant to chemicals. The ejector slides off in a single easy motion for cleaning.

UNV

	CATALOG No.	VOLUME RANGE	PRICE
Pipet-Lite XLS+	**17014413**	0.1–2 µL	$ 554.00
	17014409	0.5–10 µL	554.00
	17014412	2–20 µL	554.00
	17014408	10–100 µL	554.00
	17014411	20–200 µL	554.00
	17014414	20–300 µL	554.00
	17014407	100–1000 µL	554.00
	17014410	200–2000 µL	554.00
	17011801	500–5000 µL	554.00
	17011795	1–10 mL	554.00

mt.com/SR-PL

Universal pipettes use universal tips.
For pipette specifications, see page 16.

LTS

	CATALOG No.	VOLUME RANGE	PRICE
Pipet-Lite XLS+	**17014393**	0.1–2 µL	$ 554.00
	17014388	0.5–10 µL	554.00
	17014392	2–20 µL	554.00
	17014384	10–100 µL	554.00
	17014391	20–200 µL	554.00
	17014405	20–300 µL	554.00
	17014382	100–1000 µL	554.00
	17014390	200–2000 µL	554.00
	17011790	500–5000 µL	554.00
	17011783	1–10 mL	554.00
	17011788	2–20 mL	554.00

LTS pipettes use LTS tips.
For pipette specifications, see page 16.

The LTS LiteTouch System

Because Pipetting Shouldn't Hurt

Minimize fatigue and risk of repetitive strain injury (RSI) with the Rainin LTS® LiteTouch® tip ejection system.

The LTS difference

The Rainin LiteTouch System dramatically reduces the amount of force required to load and eject tips. LTS pipettes work in concert with LTS tips to deliver a perfect seal every time.

- LTS tips slide easily over the shaft to create a firm, air-tight fit with minimal force.
- A thin sealing ring near the top of an LTS tip virtually eliminates friction between the tip and shaft, minimizing ejection force.
- Positive stop prevents over insertion of the tip and assures an airtight seal.

mt.com/SR-LTS

Rainin E4 XLS+

Simple, Versatile and Secure

Our easiest to use, most richly featured and secure electronic pipette.
Many volume sizes available in both LTS LTS and universal UNV formats.

The E4 XLS+ is easily configured to be as simple or elaborate as your work requires.

- The large color screen, joystick control and graphic interface make moving between functions and operating the pipette easy and effortless.
- Highly customizable functions with multiple protocols that can be stored onboard for later use.

Your data is everything – trust the E4 XLS+ to deliver!

A "smart" charging stand!

SmartStand charges up to four E4s simultaneously and offers a simple yet sophisticated way to track and manage every XLS brand pipette in your lab. See page 57.

Performance

An advanced microprocessor-guided stepper motor has 4,000 discrete steps for extremely accurate liquid dispensing.

The app master

For serial dilutions, filling plates, pipetting unusual liquids and performing complex pipetting steps, the E4's versatile range of pipetting modes offer maximum convenience.

Save your protocols

Store multiple custom protocols in the onboard memory. Simultaneously review and select your protocols with a simple movement of the joystick. No more re-entering protocols over and over again!

Highly configurable

With E4's Admin Mode, you can configure the pipette any way you want. For convenience or security, remove unwanted modes or lock in preferred settings.

GLP/GMP security

Minimize deviations to your pipetting SOPs by locking protocol settings. Onboard service data is extremely secure and quick to access. Avoid calibration compliance errors by password protecting access to service interval alarms.

mt.com/SR-E4

LTS

	CATALOG No.	VOLUME RANGE	PRICE
E4 XLS+	**17014484**	0.5–10 µL	$ 1,250.00
	17014487	2–20 µL	1,250.00
	17014483	10–100 µL	1,250.00
	17014486	20–200 µL	1,250.00
	17014488	20–300 µL	1,250.00
	17014482	100–1000 µL	1,250.00
	17014485	200–2000 µL	1,250.00
	17012312	500–5000 µL	1,250.00
	17012313	1–10 mL	1,250.00
	17012314	2–20 mL	1,250.00

LTS pipettes use LTS tips. Li-Ion battery and wall power supply are included. For more information about LTS, see page 5. For pipette specifications, see page 16.

UNV

	CATALOG No.	VOLUME RANGE	PRICE
E4 XLS+	**17014491**	0.5–10 µL	$ 1,250.00
	17014494	2–20 µL	1,250.00
	17014490	10–100 µL	1,250.00
	17014493	20–200 µL	1,250.00
	17014495	20–300 µL	1,250.00
	17014489	100–1000 µL	1,250.00
	17014492	200–2000 µL	1,250.00
	17012353	500–5000 µL	1,250.00
	17012354	1–10 mL	1,250.00

Universal pipettes use universal tips.
Li-Ion battery and wall power supply are included.
For pipette specifications, see page 16.

Rainin XLS+ Multichannels

Performance You Can Feel!

8 or 12 channels; volumes from 0.5–1200 µL.
Available only in LTS. LTS

E4 XLS+ Electronic Multichannel

Nothing compares with the functionality, speed and accuracy of E4 XLS+

- Same functionality and ease of use as single-channel models
- E4 does the work with Multidispense and Autopace
- Consistent sample loading across all channels with low tip ejection forces

E4 XLS+ Electronic

Pipet-Lite XLS+ Manual

LTS

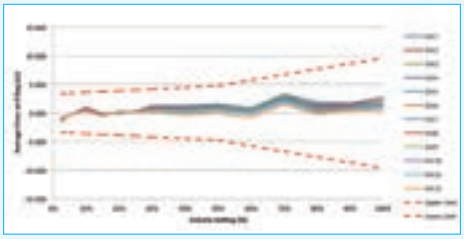
E4 XLS+ Electronic Multichannel

CATALOG No.	VOLUME RANGE	PRICE
8-Channel		
17013792	0.5–10 µL	$ 2,170.00
17013793	2–20 µL	2,170.00
17013794	5–50 µL	2,170.00
17013795	20–200 µL	2,170.00
17013796	20–300 µL	2,170.00
17014498	100–1200 µL	2,280.00
12-Channel		
17013797	0.5–10 µL	$ 2,755.00
17013798	2–20 µL	2,485.00
17013799	5–50 µL	2,485.00
17013800	20–200 µL	2,485.00
17013801	20–300 µL	2,485.00
17014499	100–1200 µL	3,335.00

LTS pipettes use LTS tips. Li-Ion battery and wall power supply are included. For more information about LTS, see page 5.
For pipette specifications, see page 17.

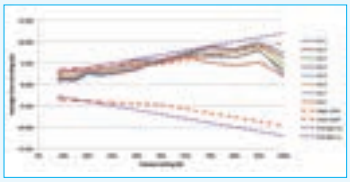
Industry-leading Channel-to-Channel Consistency

There's a reason Rainin multichannel pipettes are the market leader: ease-of-use and exceptional channel-to-channel consistency.

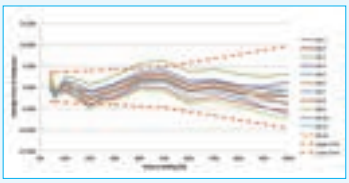


Rainin XLS+ 1200 µL

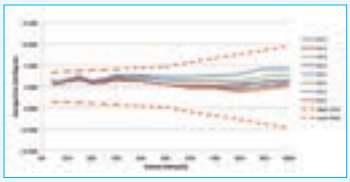
VS.



Competitor A • 1200 µL



Competitor B • 1200 µL



Competitor C • 1200 µL

Pipet-Lite XLS+ Manual Multichannel

Ergonomic design and exceptional performance

- Balanced, lightweight, reduced loading and ejection forces
- Easy quick-lock volume setting – no drift
- Rugged and durable

LTS

Pipet-Lite XLS+ Manual Multichannel

CATALOG No.	VOLUME RANGE	PRICE
8-Channel		
17013802	0.5–10 µL	$ 1,470.00
17013803	2–20 µL	1,265.00
17013804	5–50 µL	1,265.00
17013805	20–200 µL	1,265.00
17013806	20–300 µL	1,265.00
17014496	100–1200 µL	1,675.00
12-Channel		
17013807	0.5–10 µL	$ 1,685.00
17013808	2–20 µL	1,585.00
17013809	5–50 µL	1,585.00
17013810	20–200 µL	1,585.00
17013811	20–300 µL	1,585.00
17014497	100–1200 µL	2,380.00

LTS pipettes use LTS tips.
For more information about LTS, see page 5.
For pipette specifications, see page 17.

Rainin Adjustable Spacer Pipettes

Tubes to Plates with Just a Twist!

Adjust from standard 9 mm spacing to 14 mm or 19 mm; manual or electronic 6- and 8-channel versions. Available only in LTS. LTS

Pipet-Lite XLS Adjustable Manual Multichannel

One-hand adjustable spacing.

Fast, convenient

Quickly change from format to format in a single step

Nozzle spacing ranges

6-channel: 9–19 mm
8-channel: 9–14 mm

Multiple formats

Use with 24-, 48- and 96-well plates and a variety of tube formats

Applications

Ideal for genomic, proteomic and cellular assay applications

LTS

	CATALOG No.	VOLUME RANGE	PRICE
Pipet-Lite XLS Adjustable	**6-Channel**		
	17011841	20–300 µL	$ 2,100.00
	17011840	100–1200 µL	2,100.00
	8-Channel		
	17011844	5–50 µL	$ 2,100.00
	17011843	20–300 µL	2,100.00
	17011842	100–1200 µL	2,100.00

LTS pipettes use LTS tips.
For more information about LTS, see page 5.
For pipette specifications, see page 17.

mt.com/SR-AS

E4 XLS Adjustable Electronic Multichannel

Different formats? No problem!

Easy, accurate and repeatable spacing

Just set the limiter dial and quickly move between formats by twisting the spacing control. Marks on the liquid end give fast visual confirmation of nozzle spacing. Ideal for routine micro-well work when you need to change formats quickly.

LTS

	CATALOG No.	VOLUME RANGE	PRICE
E4 XLS Adjustable	**6-Channel**		
	17012327	20–300 µL	$ 3,555.00
	17012328	100–1200 µL	3,555.00
	8-Channel		
	17012329	5–50 µL	$ 3,550.00
	17012330	20–300 µL	3,555.00
	17012331	100–1200 µL	3,550.00

LTS pipettes use LTS tips. Li-Ion battery and wall power supply are included. For more information about LTS, see page 5.
For pipette specifications, see page 17.

Reservoirs for Multichannel Pipettes

- Capacity 75 mL
- Available with and without lid
- Great addition for repeat dispensing

CATALOG No.		QUANTITY	PRICE
30852500	Reservoir with lid, non-sterilized	25/pack	$ 69.20
30852501	Reservoir without lid, non-sterilized	25/pack	100.20

Rainin Classic

Timeless Design, Exceptional Performance

An economical pipette with advanced ergonomic features not found on other pipettes in its class. Available in universal UNV formats.

An economical pipette with decades of expertise built in, Rainin Classic™ will deliver years of reproducible performance. Lighter spring forces, low-drag seals and a shock absorber make it easy on your hands.

Durable

Stainless steel and quality PVDF materials assure durability, fewer out-of-tolerance failures and low cost of ownership.

Lower plunger force

The Rainin Classic's plunger force is 25% less than similar pipettes.

Comfort

The fingerhook allows a lighter grip during pipetting cycles, for improved ergonomics.

Great value – lower prices!

UNV

	CATALOG No.	VOLUME RANGE	PRICE
Rainin Classic	17008648	0.1–2 µL	$ 385.00
	17008649	0.5–10 µL	385.00
	17008650	2–20 µL	385.00
	17008651	10–100 µL	385.00
	17008652	20–200 µL	385.00
	17008653	100–1000 µL	385.00
	17008654	500–5000 µL	385.00
	17008655	1–10 mL	385.00
Starter Kit	17008708	Starter kit: PR-20, PR-200, PR-1000 and accessories	$ 967.00

Universal pipettes use universal tips.
For pipette specifications, see page 16.

$967 Starter Kit!

20, 200 & 1000 µL
3 Hang-Ups
2 Racks of Tips

Rainin Pos-D

Positive-Displacement Pipetting

The right solution for liquids with high densities, viscosities or vapor pressures.

Rainin Pos-D™ positive displacement pipettes are ideal when pipetting liquids with high densities, viscosities or vapor pressures.

Relax!

The ergonomically designed Pos-D rests in your hand while you work.

Easy to load

Pre-assembled, sterilized disposable syringe tips are packed in convenient racks.

No cross contamination

Positive displacement prevents aerosol formation and protects samples from contamination.

	CATALOG No.	VOL: VOLUME RANGE	QTY: RACKS/CARTON	QTY: TIPS/CARTON	STERILIZED	PRICE
Pos-D Pipettes	**17008575**	0.5–10 µL				$ 530.00
	17008576	3–25 µL				530.00
	17008577	20–50 µL				530.00
	17008578	10–100 µL				530.00
	17008579	50–250 µL				530.00
	17008580	100–1000 µL				530.00
Capillaries and Pistons	**17008604**	10 µL	3	180	✓	$ 108.00
	17008605	25 µL	3	180	✓	108.00
	17008606	50 µL	3	180	✓	108.00
	17008607	100 µL	3	180	✓	108.00
	17008608	250 µL	3	180	✓	108.00
	17008609	1000 µL	3	180	✓	108.00
	17012264	10 µL	3	180		98.00
	17012265	25 µL	3	180		98.00
	17012266	50 µL	3	180		98.00
	17012267	100 µL	3	180		98.00
	17012268	250 µL	3	180		98.00
	17012135	1000 µL	3	180		98.00

Pipette Starter Kits

Multiple Ways to Buy New Rainin XLS+ Pipettes!

Available with SmartStand or Hang-Ups

Starter Kits with SmartStand include PipetteX software for easy pipette management (see page 56):

- Manage calibration and service for all of your pipettes
- View pipette calibration status right at your bench
- Quick charge your E4 XLS+ electronic pipettes
- Available for LTS LTS and universal UNV

		Single Channel Manual						Multichannel Manual				Single Channel Electronic					
LTS	UNV																
	CATALOG No.	2 µL	10 µL	20 µL	200 µL	1000 µL	5000 µL	20 µL 8-channel	200 µL 8-channel	20 µL 12-channel	200 µL 12-channel	20 µL	200 µL	1000 µL	SmartStand w/ PipetteX software	Hang-Ups	PRICE
LTS	30386738	✓	✓	✓	✓										✓		$ 1,890.00
LTS	30579469	✓	✓	✓	✓											✓	1,630.00
LTS	30386597	✓		✓	✓	✓									✓		1,755.00
LTS	30579367	✓		✓	✓	✓										✓	1,630.00
LTS	30386599			✓	✓	✓									✓		1,625.00
LTS	30386737				✓	✓	✓								✓		1,890.00
LTS	30386734			✓	✓	✓		✓							✓		2,430.00
LTS	30386733			✓	✓	✓			✓						✓		2,430.00
LTS	30386736			✓	✓	✓				✓					✓		2,700.00
LTS	30386735			✓	✓	✓					✓				✓		2,700.00
LTS	30386739							✓	✓						✓		2,155.00
LTS	30456871			✓	✓	✓										✓	1,280.00
LTS	30579472							✓	✓							✓	2,005.00
LTS	30386740									✓	✓				✓		2,155.00
LTS	30579471									✓	✓					✓	2,005.00
LTS	30386731											✓	✓	✓	✓		3,640.00
UNV	30386598	✓		✓	✓	✓									✓		$ 1,755.00
UNV	30386730			✓	✓	✓									✓		1,625.00
UNV	30456872			✓	✓	✓										✓	1,280.00
UNV	30386732											✓	✓	✓	✓		3,640.00
UNV	17008708*			✓	✓	✓										✓	967.00

* Rainin Classic

Fixed Volume XLS+ Pipettes

Guaranteed Volumes

Why risk the chance of delivering incorrect volumes? Set the volume to your exact needs! Many volume sizes available in both LTS LTS and universal UNV formats.

Accuracy and precision

Rainin Pipet-Lite XLS+ pipettes deliver the highest reproducibility for demanding workflows.

Smooth operation

The seals on XLS+ pipettes ensure consistent, controlled volume delivery from start to finish – ideal for applications that require delicate control.

Total hand comfort

With contoured handles, fingerhooks, light springs and low-drag seals, pipette all day with minimal fatigue.

Rainin LiteTouch – feel the difference!

Fixed volume pipettes are available with LTS® – our revolutionary LiteTouch® System. LTS dramatically reduces tip loading and ejection forces compared to other manual pipettes.

	LTS CATALOG No.	UNV CATALOG No.	VOLUME RANGE	PRICE
Fixed Volume Pipet-Lite XLS+	17015221	17015230	0.1–2.0 µL	$ 359.00
	17015222	17015231	3–10 µL	359.00
	17015223	17015232	11–20 µL	359.00
	17015224	17015233	21–100 µL	359.00
	17015225	17015234	101–200 µL	359.00
	17015226	17015235	201–1000 µL	359.00
	17015227	17015236	1001–2000 µL	359.00
	17015228	17015237	2001–5000 µL	359.00
	17015229	17015238	5001 µL–10 mL	359.00

LTS pipettes use LTS tips. For more information about LTS, see page 5.
Universal pipettes use universal tips.

To order: Please contact your Rainin sales representative.

Pipette Performance Specifications

Specifications at 10%, 50% and 100% volume

All Rainin single-channel models, including:

Manual pipettes

- Pipet-Lite XLS/ XLS+
- Rainin Classic

Electronic pipettes

- E4 XLS/ XLS+

	PIPETTE VOLUME	VOL	INCREMENT µL		SYSTEMATIC ERROR		RANDOM ERROR	
		VOLUME	MANUAL	ELECTRONIC	%	(±) µL	%	(≤) µL
Single-channel pipettes	**2 µL**	0.2 µL	0.002	n/a	12.0	0.024	6.0	0.012
		1 µL			2.7	0.027	1.3	0.013
		2 µL			1.5	0.030	0.7	0.014
	10 µL	1.0 µL	0.02	0.01	2.5	0.025	1.2	0.012
		5.0 µL			1.5	0.075	0.6	0.03
		10.0 µL			1.0	0.1	0.4	0.04
	20 µL	2 µL	0.02	0.02	7.5	0.15	2.0	0.04
		10 µL			1.5	0.15	0.5	0.05
		20 µL			1.0	0.2	0.3	0.06
	100 µL	10 µL	0.2	0.1	3.5	0.35	1.0	0.1
		50 µL			0.8	0.4	0.24	0.12
		100 µL			0.8	0.8	0.15	0.15
	200 µL	20 µL	0.2	0.2	2.5	0.5	1.0	0.2
		100 µL			0.8	0.8	0.25	0.25
		200 µL			0.8	1.6	0.15	0.3
	300 µL	30 µL	0.5	0.2	2.5	0.75	1.0	0.3
		150 µL			0.8	1.2	0.25	0.375
		300 µL			0.8	2.4	0.15	0.45
	1000 µL	100 µL	2	1	3.0	3.0	0.6	0.6
		500 µL			0.8	4.0	0.2	1.0
		1000 µL			0.8	8.0	0.15	1.5
	2000 µL	200 µL	2	2	3.0	6.0	0.6	1.2
		1000 µL			0.8	8.0	0.2	2.0
		2000 µL			0.8	16.0	0.12	2.4
	5000 µL	500 µL	5	5	2.4	12.0	0.6	3.0
		2500 µL			0.6	15.0	0.2	5.0
		5000 µL			0.6	30.0	0.16	8.0
	10 mL	1 mL	20	10	5.0	50.0	0.6	6.0
		5 mL			1.0	50.0	0.2	10.0
		10 mL			0.6	60.0	0.16	16.0
	20 mL	2 mL	20	20	5.0	100.0	0.6	12.0
		10 mL			1.0	100.0	0.2	20.0
		20 mL			0.6	120.0	0.16	32.0

All Rainin multichannel models, including:

Manual pipettes

- Pipet-Lite XLS/XLS+
- Pipet-Lite XLS Adjustable Spacer

Electronic pipettes

- E4 XLS/XLS+
- E4 XLS Adjustable Spacer

	PIPETTE VOLUME	VOL	INCREMENT µL	SYSTEMATIC ERROR		RANDOM ERROR – MANUAL		RANDOM ERROR – ELECTRONIC	
		VOLUME	MANUAL / ELECTRONIC	%	(±) µL	%	(≤) µL	%	(≤) µL
Multichannel pipettes	**10 µL**	1.0 µL	0.02/0.01	4	0.04	5	0.05	3	0.03
		5.0 µL		1.5	0.075	1.5	0.075	0.8	0.04
		10.0 µL		1	0.1	0.5	0.05	0.5	0.05
	20 µL	2 µL	0.02	7.5	0.15	4	0.08	3	0.06
		10 µL		1.5	0.15	1.5	0.15	1	0.1
		20 µL		1	0.2	0.5	0.1	0.3	0.06
	50 µL	5 µL	0.05	3.5	0.18	2	0.1	1.5	0.075
		25 µL		1.2	0.3	0.5	0.125	0.4	0.1
		50 µL		0.8	0.4	0.4	0.2	0.3	0.15
	200 µL	20 µL	0.2	2.5	0.5	1.2	0.24	1	0.2
		100 µL		0.8	0.8	0.25	0.25	0.25	0.25
		200 µL		0.8	1.6	0.3	0.6	0.2	0.4
	300 µL	30 µL	0.5/0.2	2.5	0.75	1.5	0.45	1	0.3
		150 µL		0.8	1.2	0.3	0.45	0.25	0.375
		300 µL		0.8	2.4	0.25	0.75	0.2	0.6
	1200 µL	100 µL	2/ 1	3.6	3.6	1	1	0.6	0.6
		600 µL		0.8	4.8	0.3	1.8	0.2	1.2
		1200 µL		0.8	9.6	0.2	2.4	0.15	1.8

Specifications subject to change without notice.

Rainin MicroPro

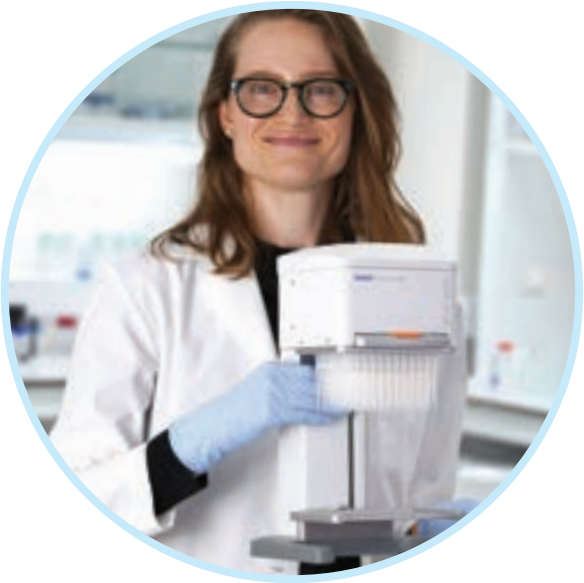
Affordable, Portable 96-Channel Pipetting

NEW

MicroPro simplifies and streamlines 96- and 384-well microplate work, from filling plates to complex, multi-step workflows.

Compact, highly affordable and easy to use, the MicroPro wirelessly connects to a high resolution touchscreen for an intuitive and user-friendly experience.

- 20 µL and 300 µL models
- Weighs just over 11 pounds!
- Save/retrieve complex workflows
- Intuitive touchscreen interface
- 10x speed control



Simplify your workflows

From the touchless tip ejection and programmable Pipetting Depth Recall™ to saving complex, multistep protocols, the MicroPro boosts productivity and improves reproducibility.

Your Research Assistant

MicroPro goes beyond simply adding and mixing reagents by offering convenient features such as aliquot dispensing, sample dilution with mixing and multi-aspirate with mixing.

Custom Protocols

Custom protocols are easy to create and allow you to build and save a tailored sequence of instruction and liquid handling steps that exactly match the needs of your protocols.

mt.com/SR-MP

		MICROPRO-20	MICROPRO-300
Performance Specifications	**Systematic Error** (per channel)	20 µL: ± 1.0% (0.20 µL) 10 µL: ± 1.5% (0.15 µL) 2 µL: ± 5.0% (0.10 µL)	300 µL: ± 1.0% (3.0 µL) 150 µL: ± 1.5% (2.25 µL) 30 µL: ± 1.5% (0.45 µL) 15 µL: ± 2.0% (0.30 µL)
	Random Error (per channel)	20 µL: ≤ 0.5% (0.10 µL) 10 µL: ≤ 1.0% (0.10 µL) 2 µL: ≤ 3.0% (0.06 µL)	300 µL: ≤ 1.0% (3.0 µL) 150 µL: ≤ 1.0% (1.50 µL) 30 µL: ≤ 1.0% (0.30 µL) 15 µL: ≤ 2.0% (0.30 µL)
	Volume Range	2 – 20 µL	5 – 300 µL

MicroPro

	CATALOG No.	MAX VOL	DESCRIPTION	PRICE
MicroPro	**30835029**	20 µL	0.5-20 µL MicroPro 20	$ 12,500.00
	30835028	300 µL	5-300 µL MicroPro 300	12,500.00
	30835030		Two-Tray Dual Nest, MPR 96/96	1,500.00

MicroPro Tips in Racks

			VOL	QTY		FEATURES			
	CATALOG No.	DESCRIPTION	MAX VOLUME	RACKS/CARTON	TIPS/CARTON	STERILIZED	FILTER	LOW RET	PRICE
MicroPro Tips	**63305398**	MPR 20µL LS 4800/50	20 µL	50	4800	✓		✓	$ 484.00
	63305397	MPR 20µL LF 4800/50	20 µL	50	4800	✓	✓	✓	667.00
	63305400	MPR 300µL LS 4800/50	300 µL	50	4800	✓		✓	450.00
	63305399	MPR 300µL LF 4800/50	300 µL	50	4800	✓	✓	✓	648.00

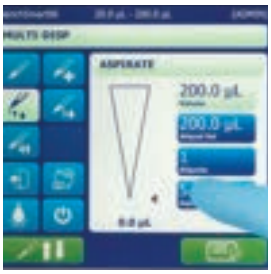
Rainin BenchSmart 96

Semi-Automated 96- and 384-Well Pipetting

The precision and reproducibility of automated liquid handling with the speed and flexibility of a manual system.

The semi-automated BenchSmart™ 96 improves reproducibility by eliminating user variability when aspirating and dispensing.

- Semi-automated high-throughput 96- and 384-well plate processing for genomics, proteomics, and cellular-based assays.
- BenchSmart gives users complete and precise control over the position of the pipetting head with 96 channels.
- The four tray positions save time and reduce your risk of error by minimizing the need to swap out trays and reservoirs.



Smart high-throughput

With its large touchpad, BenchSmart makes it easy to design, save and retrieve any protocol, from simple one-step procedures to complex, multi-step experiments.

Three pipetting heads

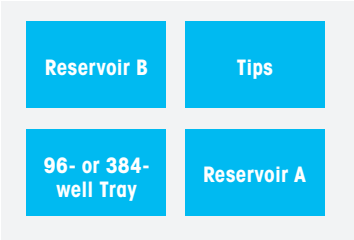
Get the precision you demand with the 0.5-20 µL head, the lab workhorse you need with the 5-200 µL head, and the multi-dispensing capability of the 100-1000 µL head.

Save time and money

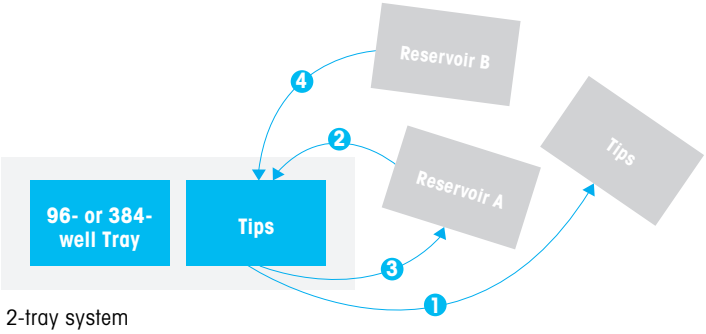
BenchSmart 96 simplifies and speeds workflows by significantly reducing, if not eliminating, the need to swap out tips and reservoirs.

Speed your workflow

Compared to a two-tray system where reservoirs and trays need to be swapped out, a two solution protocol needs fewer liquid handling steps with BenchSmart.



4-tray BenchSmart 96



2-tray system

	HEAD SIZE	LOW VOLUME 0.5-20 µL	MID VOLUME 5-200 µL	HIGH VOLUME 100-1000 µL
Performance Specifications	**Systematic Error** (per channel)	20 µL: ± 1% (0.2 µL) 10 µL: ± 1.2% (0.12 µL) 2 µL: ± 6% (0.12 µL) 1 µL: ± 12% (0.12 µL)	200 µL: ± 1% (2 µL) 100 µL: ± 1% (1 µL) 20 µL: ± 2% (0.4 µL) 5 µL: ± 5% (0.25 µL)	1000 µL: ± 1% (10 µL) 500 µL: ± 1% (5 µL) 100 µL: ± 2.5% (2.5 µL)
	Random Error (per channel)	20 µL: ≤ 0.8% (0.16 µL) 10 µL: ≤ 1.0% (0.1 µL) 2 µL: ≤ 5% (0.1 µL) 1 µL: ≤ 10% (0.12 µL)	200 µL: ≤ 0.4% (0.8 µL) 100 µL: ≤ 0.8% (0.8 µL) 20 µL: ≤ 1.5% (0.3 µL) 5 µL: ≤ 3.5% (0.18 µL)	1000 µL: ≤ 0.4% (4 µL) 500 µL: ≤ 0.4% (2 µL) 100 µL: ≤ 1.25% (1.25 µL)
	Volume Increments	0.02 µL	0.2 µL	1 µL

BenchSmart 96

Simplicity for Superior Performance

So intuitive, anyone in the lab can use it!

BenchSmart's wide range of application modes – from basic pipetting to advanced features like multi-dispense – make setup a snap.

BenchSmart's Application Modes Simplify Operation

Basic pipetting

Transfer individual liquid samples quickly, reproducibly and with minimal effort – everything you need for routine, everyday pipetting.

Advanced pipetting

Take greater control of your workflow by making fine adjustments – with advanced features like setting a fixed volume, volume sequencing and mixing.

Multi-dispense

Dispense multiple aliquots from a single aspirated volume – set a series of fixed volume aliquots or sequence of different volumes.

Dilute

Simplify in-tip dilution of multiple sample volumes with BenchSmart's fixed or volume sequencing features.

Reverse pipetting

Automates a procedure commonly used with viscous liquids – positioning the piston past the first stop, aspirating, then depressing only to the first stop to dispense the aliquot.

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BenchSmart 96

	CATALOG No.	MAX VOL	DESCRIPTION	PRICE
BenchSmart 96	**30296705**	20 µL	0.5-20 µL BenchSmart 96, complete	$ 25,000.00
	30296706	200 µL	5-200 µL BenchSmart 96, complete	25,000.00
	30296707	1000 µL	100-1000 µL BenchSmart 96, complete	25,000.00
	30296708	20 µL	Pipetting head 0.5-20 µL, BenchSmart 96	10,005.00
	30296709	200 µL	Pipetting head 5-200 µL, BenchSmart 96	10,005.00
	30296780	1000 µL	Pipetting head 100-1000 µL, BenchSmart 96	10,005.00
Accs.	**17010394**	–	384-well adapter plate stage, white	$ 434.00
	17010791	–	384-well adapter plate stage, black	434.00
	30321288	–	Terminal Conversion Kit	488.00

High-Throughput LTS Tips

For use with BenchSmart 96 and Liquidator 96 benchtop pipettors only (1000 µL for BenchSmart only).

	CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: FILTER	FEATURES: LOW RET	PRICE
Tips in Racks	**17011185**	LQR LTS 20µL 960/10	20 µL	10	960				$ 111.60
	17011186	LQR LTS 20µL S 960/10	20 µL	10	960	✓			129.60
	17011117	LQR LTS 20µL F 960/10	20 µL	10	960	✓	✓		186.20
	17010645	LQR LTS 200µL 960/10	200 µL	10	960				111.60
	17010647	LQR LTS 200µL S 960/10	200 µL	10	960	✓			129.60
	17010646	LQR LTS 200µL F 960/10	200 µL	10	960	✓	✓		186.20
	30281704	LQR LTS 1000µL 960/10	1000 µL	10	960				136.80
	30296781	LQR LTS 1000µL S 960/10	1000 µL	10	960	✓			156.60
	30296782	LQR LTS 1000µL F 960/10	1000 µL	10	960	✓	✓		222.00
	17014399	LQR LTS 20µL LS 960/10	20 µL	10	960	✓		✓	156.60
	17014400	LQR LTS 20µL FL 960/10	20 µL	10	960	✓	✓	✓	229.00
	17014401	LQR LTS 200µL LS 960/10	200 µL	10	960	✓		✓	156.60
	17014402	LQR LTS 200µL FL 960/10	200 µL	10	960	✓	✓	✓	229.00
	30296783	LQR LTS 1000µL LS 960/10	1000 µL	10	960	✓		✓	156.60
	30296784	LQR LTS 1000µL FL 960/10	1000 µL	10	960	✓	✓	✓	229.00
Tips in Stacks	**17011187**	LQS LTS 20µL 960/10	20 µL	10	960				$ 111.60
	17011287	LQS LTS 20µL S 960/10	20 µL	10	960	✓			129.60
	17010648	LQS LTS 200µL 960/10	200 µL	10	960				111.60
	17010649	LQS LTS 200µL S 960/10	200 µL	10	960	✓			129.60
	17014403	LQS LTS 20µL LS 960/10	20 µL	10	960	✓		✓	156.60
	17014404	LQS LTS 200µL LS 960/10	200 µL	10	960	✓		✓	156.60

Please visit mt.com for a complete offering of reservoirs, plates, mats and strips.

Rainin Liquidator 96

Manual High-Throughput Pipetting

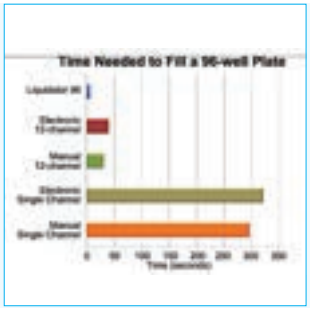
Fully manual processing of 96- and 384-well plates for genomics, proteomics and cell-based assays.

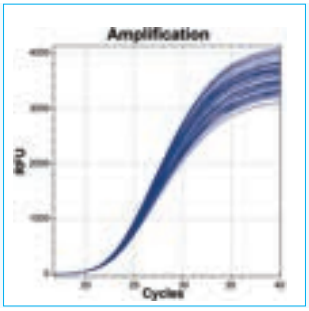
- **Two volume ranges: 0.5-20 µL and 5-200 µL**
- **No power or programming: simply set the volume and pipette**
- **Four-position platform: process up to 3 plates at a time without stacking**

Liquidator™ 96 streamlines application workflows for genomics, proteomics and cellular applications, simplifies plate replication, performs serial dilutions, plate washes or quickly moves samples between 96- and 384-well formats.

Count on Liquidator 96 to deliver the highest accuracy for PCR, qPCR, DNA sequencing and genotyping experiments. Generate precise 96-well ELISA, functional, cell viability or chemotaxis assays, all on one platform.

mt.com/SR-LIQ96





Easy to use

Because Liquidator doesn't require programming or significant training, anyone can be an expert in no time.

Save time

Liquidator processes 96-well plates in as few as six seconds each, without sacrificing data quality.

Reduce errors

By pipetting all 96 wells simultaneously, Liquidator eliminates the risk of skipping or repeating wells or rows.

Accurate and reproducible

Both 20 µL and 200 µL Liquidator models offer superior accuracy and precision.

Liquidator 96 specifications

	SYSTEMATIC ERROR	RANDOM ERROR
20 µL	20 µL: ± 1.0%	20 µL: ≤ 0.8%
	10 µL: ± 1.2%	10 µL: ≤ 1.0%
	2 µL: ± 6%	2 µL: ≤ 5%
	1 µL: ± 12%	1 µL: ≤ 10%
	Volume range: 0.5-20 µL	Volume increment: 0.02 µL
200 µL	200 µL: ± 1.0%	200 µL: ≤ 0.5%
	100 µL: ± 1.0%	100 µL: ≤ 0.8%
	20 µL: ± 2.0%	20 µL: ≤ 1.5%
	5 µL: ± 5.0%	5 µL: ≤ 3.5%
	Volume range: 5-200 µL	Volume increment: 0.2 µL

Liquidator 96

LTS

	CATALOG No.	DESCRIPTION	PRICE
LIQ 96	**17014207**	0.5-20 µL Benchtop Pipetting System	$ 24,255.00
	17010335	5-200 µL Benchtop Pipetting System	24,255.00

Liquidator 96 is supplied with height adjustment posts, a 384-well adapter plate stage and three racks of tips to get you started.

LIQ 96 Accessories	**17014270**	Height adjustment posts, 0.5-20 µL Liquidator	$ 81.60
	17010396	Height adjustment posts, 5-200 µL Liquidator	80.40
	17010394	384-well adapter plate stage, white	434.00
	17010791	384-well adapter plate stage, black	434.00
	17011118	20 µL tip tray adapter, white	376.00

See page 23 for High-throughput LTS tips.

Rainin NanoRep

Electronic Repeater Pipette

NEW

Automatically dispense of up to 1,000 aliquots – with no contact necessary from vessel to vessel.

- Lightweight, comfortable grip
- Transfer volatile, viscous and dense liquids
- No Touch Off dispense
- Aliquots as low as 100 nL, with increments as low as 10 nL – down to 1/10,000th the nominal volume of any syringe tip
- Up to 1,000 aliquots from one aspiration

Conserve samples, reagents and syringe tips with up to1,000 aliqots per tip:100 µL (shown), 10 mL, 50 mL

Avoid contact contamination with No Touch Off™ dispense – down to 100-nanoliter aliquots

	CATALOG No.	DESCRIPTION	PRICE
NanoRep	**30568171**	Electronic NanoRep repeater pipette (includes: charging cable, Hang-Up and 10 mL syringe tip)	$ 1,725.00
	17012878	Wall Power Supply	74.60
	30584027	Hang-Ups (for pipettes with fingerhook)	89.40
	30575784	NanoRep stand	117.00

NanoRep syringe tips | Specifications

Tip Volume mL	Systematic Error 10%	50%	100%
0.1	10 µL ± 1.6%	50 µL ± 0.9%	100 µL ± 0.9%
10	1 mL ± 0.4%	5 mL ± 0.4%	10 mL ± 0.3%
50	5 mL ± 0.25%	25 mL ± 0.25%	50 mL ± 0.25%

Tip Volume mL	Random Error 10%	50%	100%
0.1	10 µL ≤ 2.5%	50 µL ≤ 0.8%	100 µL ≤ 0.5%
10	1 mL ≤ 0.35%	5 mL ≤ 0.2%	10 mL ≤ 0.15%
50	5 mL ≤ 0.45%	25 mL ≤ 0.2%	50 mL ≤ 0.1%

Tip Volume mL	Min. Aliquot* µL	Min. Incr.** µL
0.1	0.1	0.01
10	10	1
50	50	5

*Min. Aliquot = Smallest dispensable volume/tip.
**Min. Increment = Lowest incremental adjustment/tip.

	CATALOG No.	MAX. VOLUME	QUANTITY		PRICE
NanoRep Syringe Tips	**30575705**	0.1 mL	100 per pkg		$ 170.80
	30575777	0.1 mL	25 per pkg	Sterile	54.00
	30575707	10 mL	100 per pkg		170.80
	30575779	10 mL	25 per pkg	Sterile	54.00
	30575789	50 mL	25 per pkg		74.00
	30575781	50 mL	25 per pkg	Sterile	85.20

mt.com/SR-NR

Rainin SP+ Pipette Controller

Easy Control at Your Fingertips

NEW

Superior ergonomics, state-of-the-art technology and a unique, extendable head to conquer your larger volume liquid handling needs with speed and ease.

Extendable head

Telescoping head for added comfort, particularly when operating in a laminar flow hood.

Variable speed, low force

Easily adjustable aspiration/dispense speeds offer greater flexibility with various solutions and media, and protection for sensitive cells.

Lightweight, easy to use

The ergonomic and well-balanced design makes the instrument easy to hold and operate.

Powerful battery

Delivers 15 hours of operation on single charge and up to one hour after just 10 minutes.

Wide range of consumables

Rainin SP+ works with all types of 1 mL to 100 mL serological and micro pipettes and can transfer liquid from 0.1 mL to 100 mL.

	CATALOG No.	DESCRIPTION	PRICE
Rainin SP+	**30671415**	Rainin SP+ pipette controller, 0.1–100 mL	$ 643.00
	17011745	Rainin SP+ spare filter	16.00
	30671310	Magnetic Hang-Up	57.40
	30621247	Pipette adaptor	34.60

mt.com/SR-SPplus

Specific Applications

- Cell culture
- Bacteria and yeast culture
- Sample prep (DNA/RNA/ protein extraction)

Environment

- On the bench
- In the biosafety – and chemical-hood

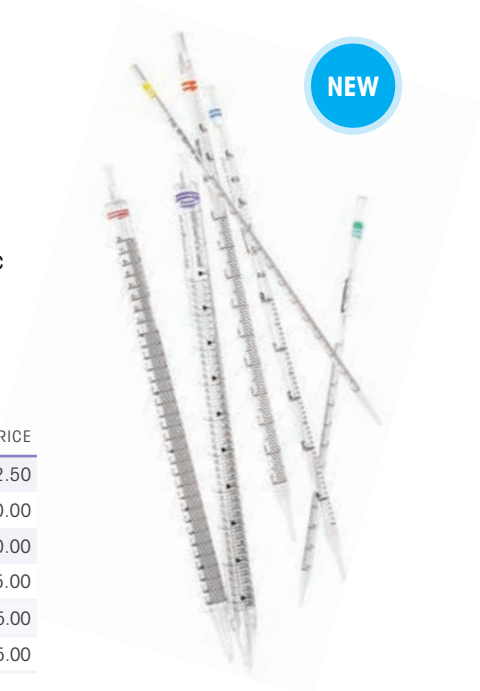
Liquid Transfer

- Buffer
- Chemicals
- Media

Rainin Serological Pipettes for SP+

Pipet with confidence

- Compatible with all universal pipette controllers
- Free of RNase, DNase and endotoxin, and are non-pyrogenic
- Built-in filter protects pipette controller from contamination
- Convenient graduations



	CATALOG No.	SIZE	MAX. VOL.	QUANTITY		PRICE
Serological Pipettes	**30749261**	1 mL	1.3 mL	200 per pack	Sterilized	$ 42.50
	30749262	2 mL	2.8 mL	200 per pack	Sterilized	50.00
	30749263	5 mL	8 mL	100 per pack	Sterilized	30.00
	30749264	10 mL	13 mL	100 per pack	Sterilized	35.00
	30749265	25 mL	33 mL	50 per pack	Sterilized	35.00
	30749266	50 mL	60 mL	50 per pack	Sterilized	75.00

Rainin QuickFlow

Portable Easy-to-Use Aspirator

Smart features

- Variable speed settings
- Non-contact liquid level sensor
- 4L waste reservoir with carry handle
- Quick-snap connectors and tubing
- Autoclavable bottle and cap
- Fits in most hoods
- Single channel, 8-channel and serological adapters

Guaranteed safety

The robust, non-contact liquid level sensor prevents overflows with auto-stop, a flashing light and audible alarm when the reservoir is full. Simple, self-sealing snap connectors keep the contents and any contamination inside the bottle.

CATALOG No.	DESCRIPTION	PRICE
30519826	**QuickFlow System – UNV** Includes variable speed vacuum system, 4L autoclavable reservoir with inlet/outlet snap connector cap, non-contact liquid level sensor system for reservoir, inlet and outlet vacuum tubing with snap connectors and complete handle kit.	$ 2,825.00
30551530	**QuickFlow System – LTS** Includes variable speed vacuum system, 4L autoclavable reservoir with inlet/outlet snap connector cap, non-contact liquid level sensor system for reservoir, inlet and outlet vacuum tubing with snap connectors and complete handle kit.	2,825.00
30519824	**QuickFlow Handle Kit – UNV** Standard UNV kit includes ergonomic handle with continuous and non-continuous flow control, three adaptors (8-channel/universal tip, single- channel/universal tip, single Pasteur pipette), vacuum tubing and handle hook accessory.	549.00
30551534	**QuickFlow Handle Kit – LTS** LTS kit includes ergonomic handle with continuous and non-continuous flow control, three adaptors (8-channel/universal tip, single- channel/universal tip, single Pasteur pipette), vacuum tubing and handle hook accessory.	549.00

mt.com/SR-QF

Upgrade Your Liquid Aspiration – It's Easy!

The Rainin QuickFlow Handle Kit – with three adapters – attaches easily to your central vacuum system

Single channel adapter

Wide range of Rainin universal-fit tips to suit your application.

Serological adapter

Fits standard glass or plastic Pasteur pipettes

Continuous flow option

Switch suction on to reduce finger strain

8-channel adapter

No-clog design

Unique channel design prevents blockage and delivers long-lasting performance.

Upgrade your system

QuickFlow handle and tubing attaches easily to your vacuum system.

Hand-saving ergonomic design

Convenient, low-force tip ejection with one hand.

Easy cleaning

The QuickFlow handle, adapters and tube is easy to clean and autoclavable.

Rainin AutoRep S

Manual Repeater Pipette

Flexible volume ranges and a wide selection of syringes ensure precise performance.

The ergonomic AutoRep™ S manual repeater pipette is simple to operate, lightweight and easy on the hands.

Useful when working in the aliquot range from 2 µL to 5 mL, AutoRep S is an economical choice for repeat dispensing up to 49 aliquots without refilling.

The wide selection of Encode™ syringes in sizes from 0.1 mL to 50 mL is available in sterile and non-sterile.

	CATALOG No.	DESCRIPTION	PRICE
AutoRep S	**17013008**	Manual repeater pipette volume range: 2 µL to 5 mL	$ 569.00
	17013009	Shelf mount	43.60
	17013010	Volume table	37.40

	CATALOG No.	MAX. VOLUME	QUANTITY		
Encode Syringes	**17007399**	0.1 mL	100 per pkg		$ 136.80
	17007400	0.1 mL	100 per pkg	Sterile	192.60
	17001871	0.5 mL	100 per pkg		136.80
	17001872	0.5 mL	100 per pkg	Sterile	192.60
	17013004	1 mL	100 per pkg		136.80
	17013002	1 mL	100 per pkg	Sterile	195.20
	17001873	1.25 mL	100 per pkg		136.80
	17001874	1.25 mL	100 per pkg	Sterile	192.60
	17001877	2.5 mL	100 per pkg		136.80
	17001878	2.5 mL	100 per pkg	Sterile	192.60
	17001883	5 mL	100 per pkg		136.80
	17001884	5 mL	100 per pkg	Sterile	192.60
	17013005	10 mL	100 per pkg		145.20
	17013003	10 mL	100 per pkg	Sterile	195.20
	17001875	12.5 mL	100 per pkg		136.80
	17001876	12.5 mL	100 per pkg	Sterile	192.60
	17001879	25 mL*	50 per pkg		156.60
	17001880	25 mL*	25 per pkg	Sterile	305.00
	17001881	50 mL*	25 per pkg		155.40
	17001882	50 mL*	25 per pkg	Sterile	305.00

* Includes one adapter. For complete syringe offering, please visit mt.com/rainin

mt.com/SR-AR

Rainin Disp-X

Large Volume Bottle Top Dispensing

Built-in safety features prevent spills and ensure smooth, trouble-free operation.

Superior chemical compatibility

High-grade inert materials assure the purity of your reagents from the first aliquot to the last.

Safety first!

Discharge tube and closure cap prevent accidental dispensing or spilling of corrosive liquids.

Clear and easy control

Adjustable control knob facilitates volume setting.

Flexible options

Telescoping filling tubes accommodate different size bottles.

	CATALOG No.	DESCRIPTION			PRICE
Disp-X	**30373527**	Disp-X 0.5–5 mL bottle-top dispenser			$ 484.00
	30373528	Disp-X 1–10 mL bottle-top dispenser			484.00
	30373529	Disp-X 2.5–25 mL bottle-top dispenser			662.00
	30373750	Disp-X 5–50 mL bottle-top dispenser			662.00
Accessories	**30373751**	Disp-X discharge tube	5 or 10 mL		$ 79.60
	30373752	Disp-X discharge tube	25 or 50 mL		79.60
	30373753	Disp-X filling tube	5 or 10 mL	125–240 mm length	31.80
	30373754	Disp-X filling tube	5 or 10 mL	250–480 mm length	31.80
	30373755	Disp-X filling tube	25 or 50 mL	170–330 mm length	31.80
	30373756	Disp-X filling tube	25 or 50 mL	250–480 mm length	31.80
	30373757	Disp-X filling valve	5 or 10 mL		79.60
	30373758	Disp-X filling valve	25 or 50 mL		79.00
	30373759	Disp-X discharge valve	5 or 10 mL		79.60
	30373760	Disp-X discharge valve	25 or 50 mL		80.00

RaininService
Our Lab or Yours – You Choose.

Mail-in

- Service when you need it – no waiting to schedule!
- Fast turnaround
- ISO 17025 accredited by A2LA
- Tightly-controlled environment
- 6- and 7-place METTLER TOLEDO balances
- METTLER TOLEDO MCP multichannel balances – all channels tested
- Free inbound shipping
- Free return kits (4+ pipettes)

Onsite

- We come to you!
- Perfect for labs with chain-of-custody concerns
- ISO 17025 accredited by A2LA
- METTLER TOLEDO balances
- Minimal downtime
- Pipettes are calibrated in the environment where they are used
- Experienced Rainin onsite technicians available nationwide

Why choose Rainin Service?
Flexibility, convenience and highly-trained technicians!

Choice

Our service offering includes onsite or mail-in calibration service and a wide range of plans to choose from.

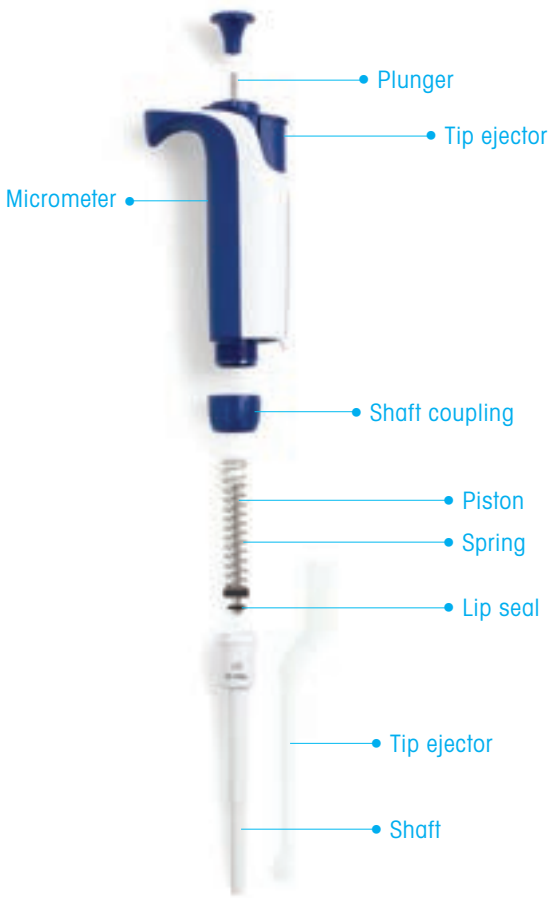
Trust

Our highly trained service experts have years of experience repairing and calibrating many different brands of pipettes. We only use Rainin parts on Rainin pipettes.

Confidence

Rainin pipette service has the knowledge, tools and certifications to deliver expert performance every time.

Every calibration includes meticulous cleaning of each component, part replacement as needed, and preventative maintenance.



Can't decide? Try our Service Finder to see which plans fit your lab's needs.

Mail-in Pipette Calibration on ShopRainin.com

Your One Stop Shop for Mail-in Calibration Services

As the world's largest pipette service provider, Rainin makes it easy to get fast reliable service and calibration, guaranteed!

- Quick turnaround, with **four ISO 17025-accredited service labs** across North America
- We service all brands of pipettes – most with manufacturers' original parts (Rainin®, Eppendorf®, Gilson®, Integra®, Thermo Fisher®, Sartorius®)
- We service all pipettes – single channels, multichannels and all Rainin benchtop pipettors
- Free inbound shipping
  - 4 or more, request a **free return kit**
  - 3 or less, or in a rush, pack them yourself and print a **complimentary inbound shipping** label

Mail-in calibration services now available on the ShopRainin e-store. Everything you need to manage mail-in pipette calibrations now in one convenient location.

Service Plans

All plans include:
- Full preventive maintenance (PM) with seal replacement or restoration
- Liquid leak test on all nozzles
- Adjustment to manufacturer's tolerances
- Calibration certificate with detailed results
- Calibration label

	Standard Plan	Advanced Plan	Accredited Plan	Accredited+ Plan
	Labs with basic service needs Perfect for Academic R&D Research Labs	When prior performance matters Pharma Biotech Clinical Research Labs	For complete ISO 17025 documentation GLP/GMP, Regulated Labs	ISO 8655 and 17025 compliance GLP/GMP, Regulated Labs
As Found	N/A	4 Test weighings @ 10, 100 %	4 Test weighings @ 10, 50, 100 %	10 Test weighings @ 10, 50, 100 %
As Returned	4 Test weighings @ 10, 100 %	4 Test weighings @ 10, 100 %	10 Test weighings @ 10, 50, 100 %	10 Test weighings @ 10, 50, 100 %
Preventive Maintenance	Yes	Yes	Yes	Yes
Calibration Certificate	Non-accredited	Non-accredited	Accredited	Accredited
Compliance	ISO 8655-7 Annex A	ISO 8655-7 Annex A	ISO 8655-7:2022	ISO 8655-6:2022

Ordering Information

Standard Plan

- Full preventive maintenance (PM) with leak test and seal replacement or restoration
- Adjustment to manufacturer's tolerances
- Calibration certificate with detailed results and historical trending

CATALOG No.	DESCRIPTION	PRICE
17800031	Single channel	$ 50.20
17800096	Multichannel All – 8 channels	134.80
17800131	Multichannel All – 12 channels	161.40
17800153	Liquidator 96	2,335.00
30451098	BenchSmart 96 Head	2,335.00
30848615	MicroPro	2,335.00

Advanced Plan

This plan includes all services provided under the Standard Plan.

PLUS:

- As found calibration results, including failure confirmation

CATALOG No.	DESCRIPTION	PRICE
17800040	Single channel	$ 60.40
17800105	Multichannel All – 8 channels	186.00
17800140	Multichannel All – 12 channels	227.00
17800154	Liquidator 96	2,755.00
30451099	BenchSmart 96 Head	2,755.00
30848616	MicroPro	2,755.00

Accredited Plan

This plan includes all services provided under the Advanced Plan.

PLUS:

- As found A2LA calibration results and failure confirmation
- A2LA calibration certificate incl. uncertainty of measurement (ISO 17025 compliant), historical trending and calibration label

CATALOG No.	DESCRIPTION	PRICE
17800048	Single channel	$ 117.60
17800113	Multichannel All – 8 channels	356.00
17800148	Multichannel All – 12 channels	399.00
30415512	Liquidator 96	3,665.00
30451100	BenchSmart 96 Head	3,665.00
30848617	MicroPro	3,665.00

Accredited+ Plan

This plan includes all services provided under the Accredited Plan.

PLUS:

- Full compliance to ISO 8655:2022 part 6 and meets all quality standards

CATALOG No.	DESCRIPTION	PRICE
30829339	Single channel	$ 169.00
30829341	Multichannel All – 8 channels	538.00
30829342	Multichannel All – 12 channels	640.20

Optional Services

CATALOG No.	DESCRIPTION	PRICE
17800171	DNA and RNase decontamination	$ 29.00

Onsite Pipette Calibration

Expert Calibration in Your Lab

Rainin makes it easy to receive state of the art ISO 17025-accredited pipette service right in your lab. We service all brands.

Regardless of plan, all pipettes we service receive:

- Full preventive maintenance (PM) with seal replacement or restoration
- Liquid leak test on all nozzles
- Calibrated to ISO 8655:2022 tolerances
- Calibration certificates with detailed results (except Basic Plan)
- Calibration label

Service Plans

	Service Plan	Calibration Plans →		
	Basic Plan When measurement data is not required Perfect for University Science Labs	**Standard Plan** Labs with basic service needs Perfect for Academic Research R&D	**Advanced Plan** When prior performance matters Pharma Biotech Clinical research labs	**Accredited Plan** For complete ISO 17025 documentation GLP/GMP, Regulated Labs
As Found	N/A	N/A	4 Test weighings @ 10% and 100%	4 Test weighings @ 10%, 50% and 100%
As Returned	4 Test weighings @ 10% and 100%	4 Test weighings @ 10% and 100%	4 Test weighings @ 10% and 100%	4 Test weighings @ 10%, 50% and 100%
Preventive Maintenance	Yes	Yes	Yes	Yes
Calibration Certificate	N/A	Non-accredited	Non-accredited	Accredited
Compliance	N/A	ISO 8655-7 Annex A	ISO 8655-7 Annex A	ISO 8655-7 Annex A

To schedule onsite service, call 800.472.4646 (choose option "2" or Sales).

Ordering Information

Basic Plan

- Full preventive maintenance (PM) with leak test and seal replacement or restoration
- Calibrated to Rainin on-site standard tolerances

CATALOG No.	DESCRIPTION	PRICE*
30445525	Single channel	$ 37.40
30445526	Multichannel All – 8 channels	71.00
30445527	Multichannel All – 12 channels	88.20

Standard Plan

- Full preventive maintenance (PM) with leak test and seal replacement or restoration
- Calibration certificate with detailed measurement data

CATALOG No.	DESCRIPTION	PRICE*
17800347	Single channel	$ 50.20
17800292	Multichannel All – 8 channels	138.40
17800256	Multichannel All – 12 channels	165.20

Advanced Plan

This plan includes all services provided under the Standard Plan.

PLUS:

- As found calibration results – including failure confirmation

CATALOG No.	DESCRIPTION	PRICE*
17800320	Single channel	$ 61.40
17800272	Multichannel All – 8 channels	189.80
17800236	Multichannel All – 12 channels	232.00

Accredited Plan

This plan includes all services provided under the Advanced Plan.

PLUS:

- ISO 17025 calibration certificate, including uncertainty of measurement (certified by A2LA), historical trending and calibration label

CATALOG No.	DESCRIPTION	PRICE*
30451900	Single channel	$ 108.20
30451876	Multichannel All – 8 channels	299.00
30451852	Multichannel All – 12 channels	376.00

* Travel fees may apply. Contact your sales representative.

Expert Calibration and Repair

Buy Vouchers Now, Use Them When You Need Them

Purchase service vouchers when you buy yourpipettes or when you have funding. Use them later – whenever you're ready for calibration!

- Valid for two years
- Use with any brand of pipette
- Eliminate separate purchase orders
- Purchase with your pipettes and tips
- Valid for **mail-in service only**

	CATALOG No.	DESCRIPTION	PRICE
Service Vouchers	**17014448**	Standard Single channel service voucher	$ 50.20
	17014453	Standard Multi-ALL 8-channel service voucher	134.80
	17014456	Standard Multi-ALL 12-channel service voucher	161.40
	30415513	Standard Liquidator 96 – 96 channels, includes box & round-trip UPS Ground shipping	2,335.00
	30456199	Standard BenchSmart 96 Head – 96 channels, includes round-trip UPS Ground shipping	2,335.00
	17014449	Advanced Single channel service voucher	60.40
	17014454	Advanced Multi-ALL 8-channel service voucher	186.00
	17014457	Advanced Multi-ALL 12-channel service voucher	227.00
	30415514	Advanced Liquidator 96 – 96 channels, includes box & round-trip UPS Ground shipping	2,755.00
	30456200	Advanced BenchSmart 96 Head – 96 channels, includes round-trip UPS Ground shipping	2,755.00
	17014450	Accredited Single channel service voucher	117.60
	17014455	Accredited Multi-ALL 8-channel service voucher	356.00
	17014458	Accredited Multi-ALL 12-channel service voucher	399.00
	30415517	Accredited Liquidator 96 – 96 channels, includes box & round-trip UPS Ground shipping	3,665.00
	30456201	Accredited BenchSmart 96 Head – 96 channels, includes round-trip UPS Ground shipping	3,665.00

At Your Service!

We're here to help

Good Pipetting Practice Seminars

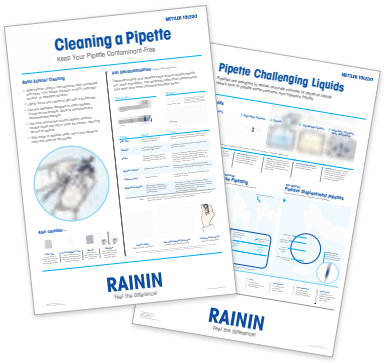
Earn training certificates and improve pipetting performance in your organization. Schedule an in-lab workshop on key aspects of liquid handling with your local Rainin representative. Learn how different liquid handling devices and different pipetting techniques can improve data reliability, and how ergonomics influence data production and well-being.

www.mt.com/gpp

Pipette Inventory Assessment

Time for a pipette review? Contact your local Rainin representative to request an inventory assessment. You'll receive a complementary summary report that includes quantity, age and ergonomic evaluation. Optimize your pipette inventory to your current laboratory workflow, eliminate redundancy and minimize your risk of using out-of-calibration pipettes.

www.mt.com/pipette-inventory



Technique Posters

From good techniques to pipette cleaning to good ergonomics, our free technique posters reinforce pipetting practices that will help ensure more consistent and accurate results.

www.mt.com/rainin-posters

- **Contact Your Sales Representative**
  800 4 RAININ (800-472-4646) or
  is@rainin.com
- **Contact Technical Support or Service**
  Reach our technical support team at 800 4 Rainin (800-472-4646, choose option "3") or by email at
  tech.support@rainin.com

BioClean Ultra™

The Highest Standard for Tip Purity and Performance

Rainin continuously tests and certifies its BioClean Ultra™ pipette tip products. Researchers can have absolute confidence in the integrity of their experiments and the fidelity of their data.

CERTIFICATE
OF QUALITY

Why BioClean Ultra?

This table shows the thoroughness and completeness of Rainin BioClean Ultra quality testing, compared to other major tip brands. Rainin maintains the industry's most comprehensive testing procedures.

	HUMAN DNA	BACTERIAL DNA	DNASE
BioClean Ultra™	< 0.32 pg	< 1 pg	≤ 10^{-7} KU/µL
Brand – A	"Free of"	–	10^{-5} KU/µL
Brand – B	< 0.40 fg	–	–
Brand – C	< 2 pg	< 50 fg	10^{-4} KU
Brand – D	None detected	–	None detected
Brand – E	< 1 pg	–	"Free of"
Brand – F	"Free of"	"Free of"	"Free of"
Brand – G	–	–	< 6.25 x 10^{-5} U/µL
Brand – H	< 30 pg	–	<10x^{-7} KU/µL
Brand – I	< 30 pg	–	<10^{-7} KU/µL
Brand – J	"Free of"	"Free of"	"Free of"

mt.com/SR-BCU

Tested and Certified Purity

- The industry's most comprehensive testing procedures.
- The only tips certified to be both protein- and protease-free.
- Virgin polypropylene – completely inert, with no bioactive components.

Clean Manufacturing and Packaging

- Manufactured under Class 100,000 clean room conditions.
- Fully automated material handling – zero human contact.
- Strict conformance to ISO 9001 eliminates all external sources of contamination.

RNASE	ENDOTOXIN	PROTEIN	PROTEASE	ATP	PCR INHIBITORS
≤ 10^{-9} KU/µL	≤ 0.001 EU/mL	< 2 ng/sample	≤ 500 ng/mL	< 2 x 10^{-12} mg/µL	None detected
10^{-9} KU/µL	≤ 0.05 EU/mL	–	–	–	–
< 8.6 fg	< 1 pg	–	–	< 1 fg	–
10^{-9} KU	< 0.001 EU/mL	<1ng/µL	–	< 5.5 x 10^{-12} mg	< 10 targets amplifiable
None detected	< 0.06 EU/mL	–	–	–	None detected
"Free of"	< 0.05 EU/mL	–	"Free of"	"ATP-free"	–
"Free of"	"Free of"	–	"Free of"	"ATP-free"	"Free of"
< 3.125 x 10^{-9} U/µL	< 0.03 EU/mL	–	–	–	–
< 10^{-9} KU/µL	< 0.06 EU/mL	–	–	–	–
< 10^{-9} KU/µL	≤ 0.06 EU/mL	–	–	< 10^{-13} mg/µL	None detected
"Free of"	"Free of"	–	–	–	–

KU Kunitz Units **EU** Endotoxin Units **ng** nanogram (Factor: 10^{-9}) **pg** picogram (Factor: 10^{-12}) **fg** femtogram (Factor: 10^{-15})
"Non detected", "Free of" and **"... Free"** designations apparently indicate no observed contamination. No specifications or test methodology provided.
"–" no data available.

TerraRack
The Most Eco-Friendly Rack Around

Less weight, less waste, 100% recyclable

TerraRack™ is a revolutionary concept in tip racks. Sturdy as conventional racks, yet made with less than half the plastic of standard racks and completely recyclable. In fact, the hinged TerraRack shell is made from PET, which is easily recycled.

For convenience and complete cleanliness, TerraRacks with BioClean Ultra tips come sterilized (they are not autoclavable).

Many volume sizes available in both LTS and universal formats.

Less waste

With 50% less plastic than conventional racks, TerraRacks are also extremely compressible, so racks occupy significantly less space in a waste or storage container.

100% recyclable

In addition to being completely recyclable, much of each TerraRack is composed of PETE, which is easily recycled and aggressively recovered from the plastic waste stream.

Recycled PET!

Sterilized

TerraRacks are sterilized so you can be certain that you're working with a fresh, clean rack every time.

mt.com/SR-BCU

	CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: SHAFTGARD	FEATURES: FILTER	PRICE
LTS / TerraRack	**17014960**	TR LTS 20µL S 960A/10	20 µL [1]	10	960	✓			$ 98.40
	17014961	TR LTS 20µL F 960A/10	20 µL [1]	10	960	✓		✓	152.40
	17014962	TR LTS 250µL S 960A/10	200 µL [2]	10	960	✓			98.40
	17014963	TR LTS 200µL F 960A/10	200 µL [2]	10	960	✓		✓	152.40
	17014964	TR LTS 300µL S 768A/8	300 µL	8	768	✓			98.40
	17014965	TR LTS 300µL F 768A/8	300 µL	8	768	✓		✓	152.40
	17014966	TR LTS 1000µL S 768A/8	1000 µL	8	768	✓			98.40
	17014967	TR LTS 1000µL F 768A/8	1000 µL	8	768	✓		✓	152.40
	17014968	TR LTS 1200µL S 768A/8	1200 µL	8	768	✓			98.40
	17014969	TR LTS 1200µL F 768A/8	1200 µL	8	768	✓		✓	152.40
UNV / TerraRack	**17014970**	TR UNV 10µL S 960A/10	10 µL	10	960	✓			$ 98.40
	17014971	TR UNV 10µL F 960A/10	10 µL	10	960	✓		✓	152.40
	17014972	TR UNV 10µL GS 960A/10	10 µL	10	960	✓	✓		98.40
	17014973	TR UNV 10µL GF 960A/10	10 µL	10	960	✓	✓	✓	152.40
	17014974	TR UNV 20µL F 960A/10	20 µL	10	960	✓		✓	152.40
	17014975	TR UNV 100µL F 960A/10	100 µL	10	960	✓		✓	152.40
	17014977	TR UNV 200µL F 960A/10	200 µL	10	960	✓		✓	152.40
	17014976	TR UNV 250µL S 960A/10	250 µL	10	960	✓			98.40
	17014978	TR UNV 300µL S 768A/8	300 µL	8	768	✓			98.40
	17014979	TR UNV 300µL F 768A/8	300 µL	8	768	✓		✓	152.40
	17014980	TR UNV 1000µL S 768A/8	1000 µL	8	768	✓			98.40
	17014981	TR UNV 1000µL F 768A/8	1000 µL	8	768	✓		✓	152.40

TerraBase	TerraBase Accessory for TerraRack	
	17014982	TerraRack Base - short; 1 base to fit 10 - 300 µL TerraRack racks	$ 24.00
	17014983	TerraRack Base - tall; 1 base to fit 1000/1200 µL TerraRack racks	26.60

[1] Fits 2, 10 and 20 µL pipettes [2] Fits 50, 100 and 200 µL pipettes

Eco-Friendly Refills

Less Waste, More Space

Space-saving rack refill options enhance your workflow and minimize plastic waste. Order empty racks if you don't already have them. Many volume sizes available in both LTS LTS and universal UNV formats.

Green-Pak® SpaceSaver® 80% less waste than conventional racks

Fast
Refill a rack in seconds

Clean
Protects tips from contamination

Convenient
Dispensing sleeve is easy to use

Save space
Each sleeve contains 8 or 10 refills

Recycled PET!

Green-Pak Individually sealed refills

Filter tips
A great refill option for filter tip users

Clean
Each refill is completely sealed

Easy
Load refills without touching the tips

Reduce waste
75% less plastic than a regular rack

mt.com/SR-GPS

Rack base not included with SpaceSaver.

Rack base not included with SpaceSaver.

LTS	UNV	CATALOG No.	DESCRIPTION	VOL: MAX. VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: SHAFTGARD	FEATURES: FILTER	PRICE
SpaceSaver		**30389291**	GPS LTS 20µL 960A/10	20 µL[1]	10	960				75.80
SpaceSaver		**30389297**	GPS LTS 20µL S 960A/10	20 µL[1]	10	960	✓			98.40
SpaceSaver		**30389299**	GPS LTS 250µL 960A/10	200 µL[2]	10	960				75.80
SpaceSaver		**30389301**	GPS LTS 250µL S 960A/10	200 µL[2]	10	960	✓			98.40
SpaceSaver		**30389303**	GPS LTS 300µL 768A/8	300 µL	8	768				75.80
SpaceSaver		**30389304**	GPS LTS 300µL S 768A/8	300 µL	8	768	✓			98.40
SpaceSaver		**30389292**	GPS LTS 1000µL 768A/8	1000 µL	8	768				75.80
SpaceSaver		**30389294**	GPS-LTS 1000µL S 768A/8	1000 µL	8	768	✓			98.40
Green-Pak		**30389270**	GP LTS 20µL 960A/10	20 µL[1]	10	960				75.80
Green-Pak		**30389275**	GP LTS 20µL S 960A/10	20 µL[1]	10	960	✓			98.40
Green-Pak		**30389274**	GP LTS 20µL F 960A/10	20 µL[1]	10	960	✓		✓	151.40
Green-Pak		**30389277**	GP LTS 250µL 960A/10	200 µL[2]	10	960				75.80
Green-Pak		**30389278**	GP LTS 250µL S 960A/10	200 µL[2]	10	960	✓			98.40
Green-Pak		**30389276**	GP LTS 200µL F 960A/10	200 µL[2]	10	960	✓		✓	151.40
Green-Pak		**30389271**	GP LTS 1000µL 768A/8	1000 µL	8	768				75.80
Green-Pak		**30389273**	GP LTS 1000µL S 768A/8	1000 µL	8	768	✓			98.40
Green-Pak		**30389272**	GP LTS 1000µL F 768A/8	1000 µL	8	768	✓		✓	151.40
Empty Racks		**30389354**	Tip Racks GPR LTS 20µL 0/10	20 µL	10					38.60
Empty Racks		**30389353**	Tip Racks GPR XXX 250µL 0/10	200 µL	10					38.60
Empty Racks		**30397667**	Tip Racks GPR XXX 300µL 0/8	300 µL	8					38.60
Empty Racks		**30389351**	Tip Racks GPR XXX 1000µL 0/8	1000 µL	8					38.60
SpaceSaver		**30389283**	GPS UNV 10µL G 960A/10	10 µL	10	960		✓		75.80
SpaceSaver		**30389285**	GPS UNV 10µL GS 960A/10	10 µL	10	960	✓	✓		98.40
SpaceSaver		**30389287**	GPS UNV 250µL 960A/10	250 µL	10	960				75.80
SpaceSaver		**30389289**	GPS UNV 250µL S 960A/10	250 µL	10	960	✓			98.40
SpaceSaver		**30397665**	GPS UNV 300µL 768A/8	300 µL	8	768				75.80
SpaceSaver		**30397666**	GPS UNV 300µL S 768A/8	300 µL	8	768	✓			98.40
SpaceSaver		**30389279**	GPS UNV 1000µL 768A/8	1000 µL	8	768				75.80
SpaceSaver		**30389281**	GPS UNV 1000µL S 768A/8	1000 µL	8	768	✓			98.40
Green-Pak		**30389258**	GP UNV 10µL 960A/10	10 µL	10	960				75.80
Green-Pak		**30389265**	GP UNV 10µL S 960A/10	10 µL	10	960	✓			98.40
Green-Pak		**30389263**	GP UNV 10µL F 960A/10	10 µL	10	960	✓		✓	151.40
Green-Pak		**30389264**	GP UNV 10µL FG 960A/10	10 µL	10	960	✓	✓	✓	151.40
Green-Pak		**30389267**	GP UNV 20µL F 960A/10	20 µL	10	960	✓		✓	151.40
Green-Pak		**30389262**	GP UNV 100µL F 960A/10	100 µL	10	960	✓		✓	151.40
Green-Pak		**30389266**	GP UNV 200µL F 960A/10	200 µL	10	960	✓		✓	151.40
Green-Pak		**30389268**	GP UNV 250µL 960A/10	250 µL	10	960				75.80
Green-Pak		**30389269**	GP UNV 250µL S 960A/10	250 µL	10	960	✓			98.40
Green-Pak		**30389259**	GP UNV 1000µL 768A/8	1000 µL	8	768				75.80
Green-Pak		**30389261**	GP UNV 1000µL S 768A/8	1000 µL	8	768	✓			98.40
Green-Pak		**30389260**	GP UNV 1000µL F 768A/8	1000 µL	8	768	✓		✓	151.40
Empty Racks		**30389350**	Tip Racks GPR UNV 10µL 0/10	10 µL	10					38.60
Empty Racks		**30389354**	Tip Racks GPR LTS 20µL 0/10	10 µL	10			✓		38.60
Empty Racks		**30389353**	Tip Racks GPR XXX 250µL 0/10	250 µL	10					38.60
Empty Racks		**30397667**	Tip Racks GPR XXX 300µL 0/8	300 µL	8					38.60
Empty Racks		**30389351**	Tip Racks GPR XXX 1000µL 0/8	1000 µL	8					38.60

[1] Fits 2, 10 and 20 µL pipettes [2] Fits 50, 100 and 200 µL pipettes

Double-96 Racked Tips

StableStak and StableRak

Ideal for high production environments. Perfect for multichannel pipetting!
Available in both LTS and universal UNV formats.

StableStak™

Stacked double-96 racks
with 192 tips per layer.

StableRak™

Individual double-96 racks
with 192 tips per layer.

Formats

Standard, sterilized
and filter (StableRak only)

Protective

Keeps tips safe from debris, dust
and contamination

Fast-loading

Sturdy, non-slip racks make
tip loading easy

mt.com/SR-BCU

LTS

StableRak and StableStak

UNV

LTS

Bulk Tips

LTS and UNV formats

UNV

	CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: FILTER	FEATURES: SHAFTGARD	FEATURES: WIDE-O	PRICE
StableRak	**17005862**	SR LTS 20µL 960A/5	20 µL[1]	5	960					$ 75.60
StableRak	**17005861**	SR LTS 20µL S 960A/5	20 µL[1]	5	960	✓				98.40
StableRak	**17005860**	SR LTS 20µL F 960A/5	20 µL[1]	5	960	✓	✓			151.40
StableRak	**17005864**	SR LTS 250µL 960A/5	200 µL[2]	5	960					75.60
StableRak	**17005863**	SR LTS 250µL S 960A/5	200 µL[2]	5	960	✓				98.40
StableRak	**17005859**	SR LTS 200µL F 960A/5	200 µL[2]	5	960	✓	✓			151.40
StableRak	**17005867**	SR LTS 300µL 768A/4	300 µL	4	768					75.60
StableRak	**17005866**	SR LTS 300µL S 768A/4	300 µL	4	768	✓				98.40
StableRak	**17005865**	SR LTS 300µL F 768A/4	300 µL	4	768	✓	✓			151.40
StableRak	**17007083**	SR LTS 1000µL 768A/4	1000 µL	4	768					75.60
StableRak	**17007082**	SR LTS 1000µL S 768A/4	1000 µL	4	768	✓				98.40
StableRak	**17007081**	SR LTS 1000µL F 768A/4	1000 µL	4	768	✓	✓			151.40
StableRak	**17007086**	SR LTS 1200µL 768A/4	1200 µL	4	768					75.60
StableRak	**17007085**	SR LTS 1200µL S 768A/4	1200 µL	4	768	✓				98.40
StableRak	**17007084**	SR LTS 1200µL F 768A/4	1200 µL	4	768	✓	✓			151.40
StableStak	**17005873**	SS LTS 20µL 960A/5	20 µL[1]	5	960					75.60
StableStak	**17005872**	SS LTS 20µL S 960A/5	20 µL[1]	5	960	✓				98.40
StableStak	**17005875**	SS LTS 250µL 960A/5	200 µL[2]	5	960					75.60
StableStak	**17005874**	SS LTS 250µL S 960A/5	200 µL[2]	5	960	✓				98.40
StableStak	**17005877**	SS LTS 300µL 768A/4	300 µL	4	768					75.60
StableStak	**17005876**	SS LTS 300µL S 768A/4	300 µL	4	768	✓				98.40
StableStak	**17007090**	SS LTS 1000µL 768A/4	1000 µL	4	768					75.60
StableStak	**17007089**	SS LTS 1000µL S 768A/4	1000 µL	4	768	✓				98.40
	17005857	SR UNV 300µL 768/4	300 µL	4	768					$ 75.60
Bulk Tips	**17001128**	RC LTS 20µL 1000A/1	20 µL[1]		1000					$ 58.20
Bulk Tips	**17001118**	RC LTS 250µL 1000A/1	200 µL[2]		1000					58.20
Bulk Tips	**17001132**	RC LTS 300µL 1000A/1	300 µL		1000					58.20
Bulk Tips	**17001129**	RC LTS 1000µL 1000A/1	1000 µL		1000					58.20
Bulk Tips	**17006324**	RC LTS 1200µL 1000A/1	1200 µL		1000					58.20
Bulk Tips	**17001130**	RC LTS 2000µL 1000A/1	2000 µL		1000					118.00
Bulk Tips	**17001133**	RC LTS 5000µL 1000A/1	5000 µL		1000					132.00
Bulk Tips	**17001119**	RC LTS 10mL 200A/1	10 mL		200					76.60
Bulk Tips	**17005940***	RC LTS 10mL S 75A/*	10 mL		75	✓				124.00
Bulk Tips	**17001131**	RC LTS 20mL 100A/1	20 mL		100					76.60
Bulk Tips	**17005941***	RC LTS 20mL S 50A/*	20 mL		50	✓				91.60
Bulk Tips	**17001124**	RC UNV 10µL 1000A/10	10 µL		1000					$ 58.20
Bulk Tips	**17001123**	RC UNV 10µL G 1000A/10	10 µL		1000			✓		58.20
Bulk Tips	**17001116**	RC UNV 250µL 1000A/1	250 µL		1000					58.20
Bulk Tips	**17001127**	RC UNV 250µL W 1000A/1	250 µL		1000				✓	58.20
Bulk Tips	**17001121**	RC UNV 1000µL 1000A/1	1000 µL		1000					58.20
Bulk Tips	**17001125**	RC UNV 2000µL 1000A/1	2000 µL		1000					118.00
Bulk Tips	**17001126**	RC UNV 2500µL 1000A/1	2500 µL		1000					118.00
Bulk Tips	**17001117**	RC UNV 5000µL 1000A/1	5000 µL		1000					133.00
Bulk Tips	**17001122**	RC UNV 10mL 200A/1	10 mL		200					76.60
Bulk Tips	**17005939***	RC UNV 10mL S 75A/*	10 mL		75	✓				125.40

*individually wrapped Wide-O = Wide Orifice [1] Fits 2, 10 and 20 µL pipettes [2] Fits 50, 100 and 200 µL pipettes

Racked Tips

SBS Standard Tip Packaging

Removable-cover Racks

Removable-cover racks – easy, practical, convenient packaging. Many volume sizes available in both LTS LTS and universal UNV formats.

- 20% less plastic than the original RT rack!
- Locking latch
- Removable hinged lid
- BioClean Ultra-certified
- Use with Green-Pak and SpaceSaver refills
- Available with Low Retention tips (see page 52)

LTS

CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: SHAFTGARD	FEATURES: WIDE-O	FEATURES: FILTER	PRICE
30389200	RT LTS 20µL 960A/10	20 µL[1]	10	960					$ 75.60
30389228	RT LTS 20µL S 960A/10	20 µL[1]	10	960	✓				98.40
30389225	RT LTS 20µL F 960A/10	20 µL[1]	10	960	✓			✓	151.40
30389243	RT LTS 250µL 960A/10	200 µL[2]	10	960					75.60
30389247	RT LTS 250µL W 960A/10	200 µL[2]	10	960			✓		90.80
30389245	RT LTS 250µL S 960A/10	200 µL[2]	10	960	✓				98.40
30389249	RT LTS 250µL SW 960A/10	200 µL[2]	10	960	✓		✓		107.20
30389239	RT LTS 200µL F 960A/10	200 µL[2]	10	960	✓			✓	151.40
30389253	RT LTS 300µL 768A/8	300 µL	10	768					75.60
30389255	RT LTS 300µL S 768A/8	300 µL	8	768	✓				98.40
30389254	RT LTS 300µL F 768A/8	300 µL	8	768	✓			✓	151.40
30389211	RT LTS 1000µL 768A/8	1000 µL	8	768					75.60
30389217	RT LTS 1000µL W 768A/8	1000 µL	8	768			✓		90.80
30389215	RT LTS 1000µL S 768A/8	1000 µL	8	768	✓				98.40
30389220	RT LTS 1000µL SW 768A/8	1000 µL	8	768	✓		✓		107.20
30389212	RT LTS 1000µL F 768A/8	1000 µL	8	768	✓			✓	151.40
30389230	RT LTS 1200µL 768A/8	1200 µL	8	768					75.60
30389234	RT LTS 1200µL S 768A/8	1200 µL	8	768	✓				98.40
30389231	RT LTS 1200µL F 768A/8	1200 µL	8	768	✓			✓	151.40
30389236	RT LTS 2000µL 480A/8	2000 µL	8	480					90.80
30389238	RT LTS 2000µL S 480A/8	2000 µL	8	480	✓				98.40
30389237	RT LTS 2000µL F 480A/8	2000 µL	8	480	✓			✓	151.40
30389256	RT LTS 5000µL 192A/8	5000 µL	8	480					75.60
30389257	RT LTS 5000µL S 192A/8	5000 µL	8	480	✓				98.40

Racked Tips

[1] Fits 2, 10 and 20 µL pipettes

[2] Fits 50, 100 and 200 µL pipettes

Fast loading

Robust secure racks make tip loading easy

Autoclavable

15 psi, 121°C, 20 minutes

Format options

Standard, sterilized and filter versions available

Protective

Safe from dirt and contamination

▶ **mt.com/SR-BCU**

UNV — Racked Tips

CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: SHAFTGARD	FEATURES: WIDE-O	FEATURES: FILTER	PRICE
30389163	RT UNV 10µL 960A/10	10 µL	10	960					$ 75.60
30389174	RT UNV 10µL G 960A/10	10 µL	10	960		✓			75.60
30389178	RT UNV 10µL GS 960A/10	10 µL	10	960	✓	✓			98.40
30389181	RT UNV 10µL S 960A/10	10 µL	10	960	✓				98.40
30389172	RT UNV 10µL F 960A/10	10 µL	10	960	✓			✓	151.40
30389175	RT UNV 10µL FG 960A/10	10 µL	10	960	✓	✓		✓	151.40
30389189	RT UNV 20µL F 960A/10	20 µL	10	960	✓			✓	151.40
30389170	RT UNV 100µL F 960A/10	100 µL	10	960	✓			✓	151.40
30389186	RT UNV 200µL F 960A/10	200 µL	10	960	✓			✓	151.40
30389191	RT UNV 250µL 960A/10	250 µL	10	960					75.60
30389195	RT UNV 250µL W 960A/10	250 µL	10	960			✓		83.00
30389193	RT UNV 250µL S 960A/10	250 µL	10	960	✓				98.40
30389058	RT UNV 300µL 768A/8	300 µL	10	768					75.60
30389059	RT UNV 300µL S 768A/8	300 µL	10	768	✓				98.40
30389136	RT UNV 300µL F 768A/8	300 µL	8	768	✓			✓	151.40
30389164	RT UNV 1000µL 768A/8	1000 µL	8	768					75.60
30389168	RT UNV 1000µL S 768A/8	1000 µL	8	768	✓				98.40
30389165	RT UNV 1000µL F 768A/8	1000 µL	8	768	✓			✓	151.40
30389183	RT UNV 2000µL 480A/8	2000 µL	8	480					90.80
30389185	RT UNV 2000µL S 480A/8	2000 µL	8	480	✓				98.40
30389184	RT UNV 2000µL F 480A/8	2000 µL	8	480	✓			✓	151.40
30389198	RT UNV 5000µL 192A/8	5000 µL	8	480					75.60
30389199	RT UNV 5000µL S 192A/8	5000 µL	8	480	✓				98.40

Wide-O = Wide Orifice

Low Retention Tips

Stop Wasting Valuable Sample!

Superhydrophobic Rainin LR low retention tips minimize residual volume, particularly when transferring viscous samples and liquids with low surface tension. A great option for pipetting valuable molecular biology reagents and expensive samples.

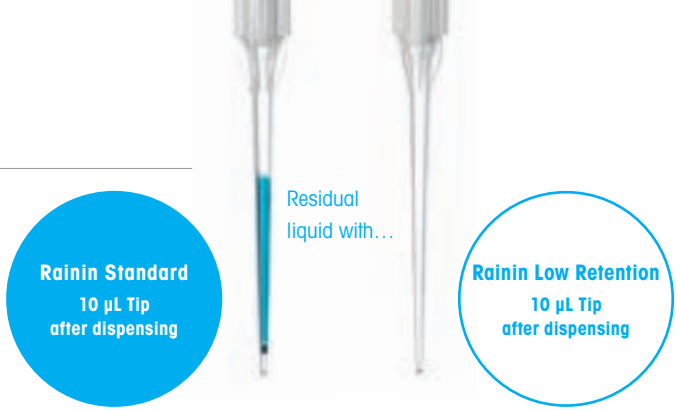
Available in both LTS and universal formats.

[1] Fits 2, 10 and 20 µL pipettes

[2] Fits 50, 100 and 200 µL pipettes

Rack base not included with SpaceSaver. See page 47 for empty racks.

	CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: WIDE-O	FEATURES: LOW RET	FEATURES: FILTER	PRICE
Racked Tips	30389227	RT LTS 20µL L 960A/10	20 µL[1]	10	960			✓		$ 98.40
	30389229	RT LTS 20µL LS 960A/10	20 µL[1]	10	960	✓		✓		107.20
	30389226	RT LTS 20µL FL 960A/10	20 µL[1]	10	960	✓		✓	✓	164.40
	30389244	RT LTS 250µL L 960A/10	200 µL[2]	10	960			✓		98.40
	30389248	RT LTS 250µL LW 960A/10	200 µL[2]	10	960		✓	✓		98.40
	30389246	RT LTS 250µL LS 960A/10	200 µL[2]	10	960	✓		✓		107.20
	30389250	RT LTS 250µL LSW 960A/10	200 µL[2]	10	960	✓	✓	✓		132.00
	30389240	RT LTS 200µL FL 960A/10	200 µL[2]	10	960	✓		✓	✓	164.40
	30389241	RT LTS 200µL FLW 960A/10	200 µL[2]	10	960	✓	✓	✓	✓	164.40
	30389160	RT LTS 300µL L 768A/8	300 µL	8	768			✓		98.40
	30389161	RT LTS 300µL LS 768A/8	300 µL	8	768	✓		✓		107.20
	30389162	RT LTS 300µL FL 768A/8	300 µL	8	768	✓		✓	✓	164.40
	30389214	RT LTS 1000µL L 768A/8	1000 µL	8	768			✓		98.40
	30389216	RT LTS 1000µL LS 768A/8	1000 µL	8	768	✓		✓		107.20
	30389213	RT LTS 1000µL FL 768A/8	1000 µL	8	768	✓		✓	✓	164.40
	30389219	RT LTS 1000µL LW 768A/8	1000 µL	8	768		✓	✓		98.40
	30389221	RT LTS 1000µL LSW 768A/8	1000 µL	8	768	✓	✓	✓		132.00
	30389218	RT LTS 1000µL FLW 768A/8	1000 µL	8	768	✓	✓	✓	✓	164.40
	30389233	RT LTS 1200µL L 768A/8	1200 µL	8	768			✓		98.40
	30389235	RT LTS 1200µL LS 768A/8	1200 µL	8	768	✓		✓		107.20
	30389232	RT LTS 1200µL FL 768A/8	1200 µL	8	768	✓		✓	✓	164.40
SpaceSaver	30389296	GPS LTS 20µL L 960A/10	20 µL[1]	10	960			✓		98.40
	30389298	GPS LTS 20µL LS 960A/10	20 µL[1]	10	960	✓		✓		107.00
	30389300	GPS LTS 250µL L 960A/10	200 µL[2]	10	960			✓		98.40
	30389302	GPS LTS 250µL LS 960A/10	200 µL[2]	10	960	✓		✓		107.00
	30398985	GPS LTS 300µL LS 768A/8	300 µL	8	768	✓		✓		98.40
	30389293	GPS LTS 1000µL L 768A/8	1000 µL	8	768			✓		98.40
	30389295	GPS LTS 1000µL LS 768A/8	1000 µL	8	768	✓		✓		107.00
Bulk	17014340	RC LTS 20µL L 1000A/1	20 µL		1000			✓		73.00
	17014341	RC LTS 250µL L 1000A/1	200 µL		1000			✓		73.00
	17014342	RC LTS 1000µL L 1000A/1	1000 µL		1000			✓		73.00



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Rack base not included with SpaceSaver. See page 47 for empty racks.

UNV	CATALOG No.	DESCRIPTION	MAX VOLUME (VOL)	RACKS/CARTON (QTY)	TIPS/CARTON (QTY)	STERILIZED (FEATURES)	SHAFTGARD (FEATURES)	WIDE-O (FEATURES)	LOW RET (FEATURES)	FILTER (FEATURES)	PRICE
Racked Tips	30389180	RT UNV 10µL L 960A/10	10 µL	10	960				✓		$ 98.40
	30389182	RT UNV 10µL LS 960A/10	10 µL	10	960	✓			✓		107.20
	30389173	RT UNV 10µL FL 960A/10	10 µL	10	960	✓			✓	✓	164.40
	30389177	RT UNV 10µL GL 960A/10	10 µL	10	960		✓		✓		98.40
	30389179	RT UNV 10µL GLS 960A/10	10 µL	10	960	✓	✓		✓		106.60
	30389176	RT UNV 10µL FGL 960A/10	10 µL	10	960	✓	✓		✓	✓	164.40
	30389190	RT UNV 20µL FL 960A/10	20 µL	10	960	✓			✓	✓	164.40
	30389171	RT UNV 100µL FL 960A/10	100 µL	10	960	✓			✓	✓	164.40
	30389187	RT UNV 200µL FL 960A/10	200 µL	10	960	✓			✓	✓	164.40
	30389188	RT UNV 200µL FLW 960A/10	200 µL	10	960	✓		✓	✓	✓	164.40
	30389192	RT UNV 250µL L 960A/10	250 µL	10	960				✓		98.40
	30389196	RT UNV 250µL LW 960A/10	250 µL	10	960			✓	✓		98.40
	30389194	RT UNV 250µL LS 960A/10	250 µL	10	960	✓			✓		107.20
	30389197	RT UNV 250µL LSW 960A/10	250 µL	10	960	✓		✓	✓		132.00
	30389137	RT UNV 300µL L 768A/8	300 µL	8	768				✓		98.40
	30389138	RT UNV 300µL LS 768A/8	300 µL	8	768	✓			✓		107.20
	30389139	RT UNV 300µL FL 768A/8	300 µL	8	768	✓			✓	✓	164.40
	30389167	RT UNV 1000µL L 768A/8	1000 µL	8	768				✓		98.40
	30389169	RT UNV 1000µL LS 768A/8	1000 µL	8	768	✓			✓		107.20
	30389166	RT UNV 1000µL FL 768A/8	1000 µL	8	768	✓			✓	✓	164.40
SpaceSaver	30389284	GPS UNV 10µL GL 960A/10	10 µL	10	960		✓		✓		$ 98.40
	30389286	GPS UNV 10µL GLS 960A/10	10 µL	10	960	✓	✓		✓		107.00
	30389288	GPS UNV 250µL L 960A/10	250 µL	10	960				✓		98.40
	30389290	GPS UNV 250µL LS 960A/10	250 µL	10	960	✓			✓		107.00
	30389280	GPS UNV 1000µL L 768A/8	1000 µL	8	768				✓		98.40
	30389282	GPS UNV 1000µL LS 768A/8	1000 µL	8	768	✓			✓		106.60
Bulk	17014395	RC UNV 10µL L 1000A/1	10 µL		1000				✓		$ 73.00
	17014396	RC UNV 10µL GL 1000A/1	10 µL		1000		✓		✓		73.00
	17014397	RC UNV 250µL L 1000A/1	250 µL		1000				✓		73.00
	17014398	RC UNV 1000µL L 1000A/1	1000 µL		1000				✓		73.00
	17015068	RC UNV 1000µL LW 1000A/1	1000 µL		1000			✓	✓		73.00

Wide-O = Wide Orifice, Low Ret = Low Retention

Specialty Tips

Unique Tips for Special Applications

LTS

Extended-length tips
For tall narrow tube work.
BioClean Ultra.

102 mm long
Rainin extended-length LTS tips reach to the bottom of blocks, tall vials, flasks, 100 mm tubes, etc.

Narrow diameter
These tips will pass through 8 mm ID penetrable septa, such as on specimen collection kits.

LTS

UNV

Wide-orifice tips
Ideal for delicate samples.
BioClean Ultra.

For samples with mammalian cells or high-molecular-weight DNA. 1.5 mm wide orifice minimizes shear forces on delicate samples and flow resistance for viscous samples. 200 and 1000 µL.

UNV

ShaftGard™ 10µL tips
Avoid cross-contamination.
BioClean Ultra.

Tip protects shaft, tip ejector
Shaft and tip ejector are protected from contamination, reducing the need to decontaminate or sterilize the shaft and tip ejector when working with biological, radioactive or other critical samples.

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LTS

	CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: WIDE-O	FEATURES: LOW RET	FEATURES: FILTER	FEATURES: X-LENGTH	PRICE
Racked Tips	**30389251**	RT LTS 250µL X 768A/8	200 µL[2]	8	768					✓	$ 124.00
	30389252	RT LTS 250µL SX 768A/8	200 µL[2]	8	768	✓				✓	133.00
	30389242	RT LTS 200µL FX 768A/8	200 µL[2]	8	768	✓			✓	✓	207.00
	30389222	RT LTS 1000µL X 768A/8	1000 µL	8	768					✓	124.00
	30389224	RT LTS 1000µL SX 768A/8	1000 µL	8	768	✓				✓	133.00
	30389223	RT LTS 1000µL FX 768A/8	1000 µL	8	768	✓			✓	✓	207.00
	30389247	RT LTS 250µL W 960A/10	200 µL[2]	10	960		✓				90.80
	30389248	RT LTS 250µL LW 960A/10	200 µL[2]	10	960		✓	✓			98.40
	30389249	RT LTS 250µL SW 960A/10	200 µL[2]	10	960	✓	✓				107.20
	30389250	RT LTS 250µL LSW 960A/10	200 µL[2]	10	960	✓	✓	✓			132.00
	30389241	RT LTS 200µL FLW 960A/10	200 µL	10	960	✓	✓	✓	✓		164.40
	30389217	RT LTS 1000µL W 768A/8	1000 µL	8	768		✓				90.80
	30389219	RT LTS 1000µL LW 768A/8	1000 µL	8	768		✓	✓			98.40
	30389220	RT LTS 1000µL SW 768A/8	1000 µL	8	768	✓	✓				107.20
	30389221	RT LTS 1000µL LSW 768A/8	1000 µL	8	768	✓	✓	✓			132.00
	30389218	RT LTS 1000µL FLW 768A/8	1000 µL	8	768	✓	✓	✓	✓		164.40

[2] Fits 50, 100 and 200 µL pipettes

UNV

	CATALOG No.	DESCRIPTION	VOL: MAX VOLUME	QTY: RACKS/CARTON	QTY: TIPS/CARTON	FEATURES: STERILIZED	FEATURES: SHAFTGARD	FEATURES: WIDE-O	FEATURES: LOW RET	FEATURES: FILTER	PRICE
Racked Tips	**30389174**	RT UNV 10µL G 960A/10	10 µL	10	960		✓				$ 75.60
	30389178	RT UNV 10µL GS 960A/10	10 µL	10	960	✓	✓				98.40
	30389175	RT UNV 10µL FG 960A/10	10 µL	10	960	✓	✓			✓	151.40
	30389195	RT UNV 250µL W 960A/10	250 µL	10	960			✓			83.00
	30389196	RT UNV 250µL LW 960A/10	250 µL	10	960			✓	✓		98.40
	30389197	RT UNV 250µL LSW 960A/10	250 µL	10	960	✓		✓	✓		132.00
	30389188	RT UNV 200µL FLW 960A/10	250 µL	10	960	✓		✓	✓	✓	164.40
Bulk	**17001127**	RC UNV 250µL W 1000A/1	250 µL		1000			✓			58.20
	17015068	RC UNV 1000µL LW 1000A/1	1000 µL		1000			✓	✓		73.00
Refills	**30389283***	GPS UNV 10µL G 960A/10	10 µL	10	960		✓				75.80
	30389285*	GPS UNV 10µL GS 960A/10	10 µL	10	960	✓	✓				98.40
	30389264	GP UNV 10µL FG 960A/10	10 µL	10	960	✓	✓			✓	151.40

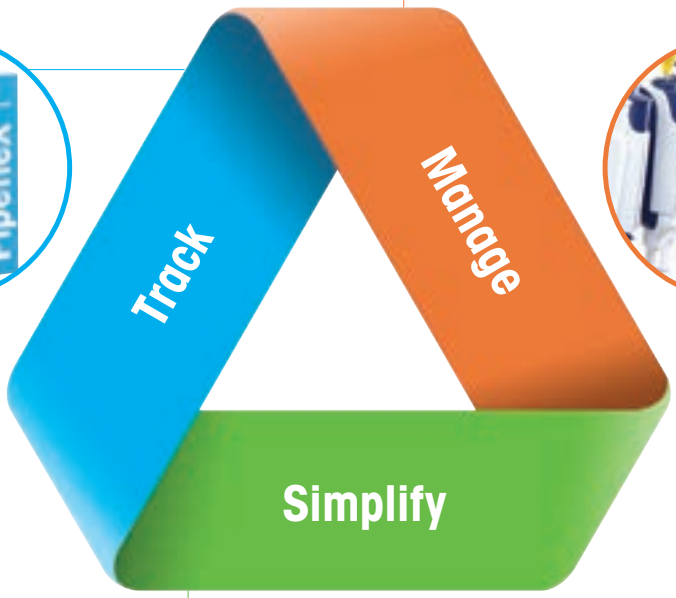
Wide-O = Wide Orifice, Low Ret = Low Retention *Green-Pak SpaceSaver

Flexible, Integrated and Easy to Implement

Pipette Management Simplified

- Assign locations, users and groups.
- Search, filter, custom reports and schedules.
- Know everything about your pipettes.

- See all calibration data.
- Schedule calibrations.
- All critical pipette data is now located in one single database.



- The Bluetooth® wireless technology-enabled SmartStand electronically transmits pipette serial numbers, calibration and other relevant data to PipetteX.
- Rainin calibration certificates are electronically transmitted and linked to your pipette.
- Eliminate time-consuming reading of serial numbers, barcodes or stickers.

	CATALOG No.	DESCRIPTION	PRICE
PipetteX Software	**30475913**	PipetteX - Site	$ 1,570.00
	30475915	PipetteX - Unlimited	5,885.00
	30478260	PipetteX - Site, Renewal	1,570.00
	30478262	PipetteX - Unlimited, Renewal	5,885.00

Rainin SmartStand
The Intelligent Pipette Stand

By reading the RFID chip that's in every Rainin XLS and XLS+ brand pipette, SmartStand instantly displays the compliance status for up to four pipettes – manual or electronic. Pick up a pipette and SmartStand's color LCD screen switches to a detailed view of that pipette's service and calibration status. Works seamlessly with PipetteX too!

	CATALOG No.	DESCRIPTION	PRICE
Pipette Stands	**30312897**	SmartStand stand with PipetteX basic software	$ 802.00
	17001255	Universal Carousel Stand for seven pipettes	160.00
	17003024	Hang-Ups, magnetic, for three pipettes	87.00
	17004992	Shelf Hang-Ups for three pipettes	87.00
	17006638	Adapters for E4XLS with Hang-Ups, carousel	43.20

Rainin SmartCheck

Fast Pipette Accuracy Verification

Reduce experimental errors, between-calibration compliance failures and improve pipetting technique.

Trust your pipettes! SmartCheck is a quick and easy way to verify that your pipettes are working properly. It takes very little space on the bench-top so you can use it every day.

Avoid expensive rework

Reduce out-of-tolerance challenges such as having to re-do expensive experiments or incur costly downstream process waste.

60 seconds or less!

Pipette verification in less than a minute: SmartCheck provides a clear Pass/Fail indication following a simple process with just four gravimetric measurements.

Verify any brand of pipette

Verify the performance of any brand of pipette dispensing volumes between 10 – 1000 µL. You can verify individual channels of multichannel pipettes too.

Ideal for regulated environments

SmartCheck is the only verification tool that can operate within a 21 CFR Part 11 compliant process (requires PipetteX software).

	CATALOG No.	DESCRIPTION	PRICE
SmartCheck	**30564095**	SmartCheck SLS1010S	$ 1,530.00
	30448961	Function Test Kit	498.00
	30448967	EasyScan RFID LAN set	1,410.00

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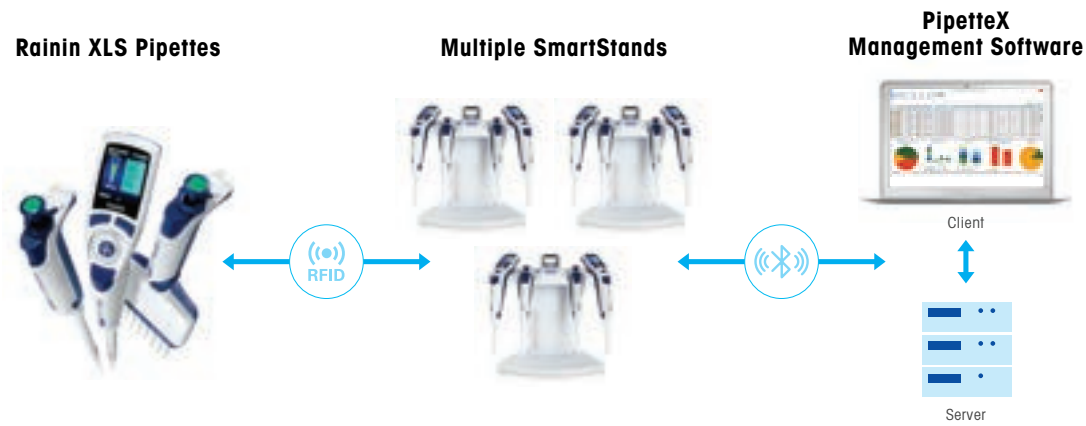
Your Integrated Pipette Management Solution

Bring Order to Your Pipette Inventory

PipetteX™ asset management software, together with SmartStand, SmartCheck and Rainin calibration services, is a unique pipette tracking and calibration management system. Using the RFID chip embedded in every Rainin XLS/XLS+ pipette, PipetteX automatically tracks and manages calibration data, pipette usage and location.

- Automatic transfer of calibration documentation from service center to software
- Controls all elements of calibration tracking and movement
- 21 CFR Part 11 compliant management system
- Integrated in-line pipette validations



A simple, unified system for tracking and managing pipettes (all manufacturers)

Place any Rainin XLS-brand pipette on a SmartStand to instantly see the pipette's calibration status and service details right at the bench. PipetteX connects to SmartStand via Bluetooth or USB drive to automatically transfer serial numbers, service and other data to the PipetteX database.

PipetteX maintains a complete history of your entire pipette inventory including calibration certificates and verification reports. This makes it easy to track the status, location, calibration and service schedule for any pipette.

That's pipette management...simplified!

mt.com/SR-PX

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NanoRep
Electronic Repeater Pipette

New!

Conserve samples, reagents and syringe tips with up to 1,000 aliqots per tip:100 µL, 10 mL and 50 mL

Avoid contamination with No Touch Off™ dispense!

For more information on the new NanoRep repeater pipette, see page 26.

METTLER TOLEDO