Shop RANN USA Product Catalog 2024



Made of rapidly-renewable plant fiber



Werner Maas General Manager

Rainin is very pleased to introduce EarthRack — an industry-leading advance in greener lab technology. Because different labs have different needs, EarthRack is the latest addition to our line of earth-friendlier, more sustainable liquid-handling solutions (see page 46).

We have – for decades – sought to reduce waste and promote reuse. Our GreenPak SpaceSaver refill system, introduced in 1995 and copied by practically every pipette tip manufacturer worldwide, reduces plastic rack waste by up to 85%. TerraRack is notable not just because it's made from 50% less plastic, but is mostly made from highly recyclable #1 PET (like water bottles) rather than traditional, seldom-recycled #5 polypropylene. And with EarthRack we've now replaced most plastic rack components with purified and wholly compostable plant fiber.

Reducing waste, promoting reuse and using less energy in our own operations is also critically important to us. Through our Zero Waste initiative we are close to becoming a zero landfill waste operation by the end of 2024. We sent nothing to landfill for two months in 2023, so I am confident that we will achieve zero waste every day by 2025.

More and more technologies and materials are becoming greener and you can count on Rainin to continue to innovate in this vitally important area. I encourage you to periodically visit our sustainability site — www.mt.com/greenerpipetting — to keep abreast of our current endeavors and latest accomplishments.



Introducing EarthRack!

Made mostly from purified cellulose fiber, EarthRack's base and lid can be composted, placed bins with paper recycling and will biodegrade with no net increase in carbon when landfilled.

See pages 48.



Greener Products

A range of options to reduce plastic waste.

Starts on page 46.

Pipettes LTS® LiteTouch® System 4 6 Single channel manual and electronic XLS+™ Multichannel manual and electronic XLS+ 10 Adjustable Spacer XLS® 12 14 NanoRep[™] electronic repeater pipette Rainin Classic™ 16 Rainin Pos-D™, positive displacement 17 XLS+ Starter Kits 18 Fixed-volume Pipet-Lite® XLS+ 19 Pipette performance specifications 20 **High Throughput Pipetting** 96-Channel Pipetting 22 24 MicroPro[™] portable electronic system BenchSmart[™] 96 semi-automated system 26 Liquidator® 96 manual system 28 29 Accessories Tips for 96-Channel Platforms 30 Specifications 31 Liquid Handling - Specialty Products Rainin SP+ serological pipette controller 32 Rainin serological pipettes 33 34 QuickFlow liquid aspiration 36 AutoRep™ S manual repeater pipette 37 Disp-X[™] bottle top dispenser Pipette Service 38 Pipette service and service plans Calibration vouchers 44 At Your Service! We Are Here to Help 45 **Pipette Tips** Reduce plastic waste with Rainin 46 Rainin EarthRack NEW 48 50 TerraRack® tips 52 Green-Pak® SpaceSaver® and Green-Pak tips StableStak[™] StableRak[™] and bulk tips 54 56 Racked tips 58 Low-retention tips Specialty tips 60 62 BioClean Ultra™ **Pipette Asset Management** PipetteX™ asset management software 64 SmartStand 65 SmartCheck™ 66

mt.com/GreenerPipetting

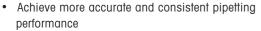
The Rainin LTS LiteTouch System

Because Pipetting Shouldn't Hurt

Rainin revolutionized pipetting with the LiteTouch® System. LTS® not only virtually eliminates the harmful forces associated with tip loading and ejection, but also improves experimental reproducibility by eliminating inaccuracies due to imperfect seals.

Why switch to LTS?

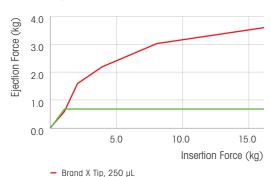
- · Reduce your risk of pipetting-related RSI
- Effortless tip insertion and ejection
- · Perfect seals across all channels
- Pipette all day, every day without pain or fatigue





Meet LTS in 90 seconds! ▶ mt.com/LTS-video

Good ergonomics = better, more consistent results



- Rainin LTS Tip, 250 uL

Accuracy requires consistency, yet consistency is difficult to maintain when a user's hands are fatigued or in pain. Pipetting is highly repetitive and the effects of pipetting forces – jamming tips onto shafts, then struggling to eject them – are cumulative, hence the documented relationship between pipetting accuracy and the effects of pipetting forces.

At 0.6 kg, LTS all but eliminates tip loading/ejecting forces, so users face none of the debilitating issues one experiences when working with standard tips.

Are you at risk?

- Pipetting is one of the most repetitive tasks in the laboratory.
- More than 30% of all workplace injuries are musculoskeletal disorders, including repetitive strain injuries and cumulative trauma disorders (injuries associated with repetition, excessive force and poor posture).
- Pipettes without LTS require up to 12 kg* of force to complete a pipetting cycle.
- Forces should not exceed 30% of maximum average strength capacity:





- You are at risk if:
 - You pipette more than **an hour a day** or 300 hours a year.
 - You use non-LTS pipettes that can require up to 12 kg* of force.
- Prevention is the key to reducing musculoskeletal disorders and repetitive strain injuries.

Effortless tip loading and ejection

Friction Seal

Typical

Shaft/Tip

Achieving a reliable seal with standard tips relies heavily on the strength (and persistence) of the user. Conventional pipette shaft-ends and tips are cone-shaped, so a tight seal relies on the strength of the user and pliability of the tip material. What's more, tip geometries vary from manufacturer to manufacturer, affecting the seal consistency and the accuracy of dispensed volumes.

LTS

Shaft/Tip

Perfect Seal

Positive Stop

LTS shafts and tips are cylindrical with a unique sealing ring inside the tip. Tips slide easily onto the shaft, stop when properly seated and make a perfect seal every time. Once seated, LTS tips won't fall off, yet slide off easily when pushed by the ejector.

*What is 12 kg of force is equal to?

Driving a stake into the ground with a sledgehammer

Turning a manual can opener to open a can of food

Picking up a smal child

Download our pipetting ergonomics white paper mt.com/pipetting-ergo

4 www.ShopRainin.com | 800.4.RAININ (800.472.4646) | 9 AM - 8 PM ET

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 us and universal w 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

mt.com/SR-PL

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.

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.

Total comfort

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

Secure volume lock

The snag-proof lock design on XLS+ pipettes prevents accidental volume drift while allowing for rapid volume adjustment, even while wearing gloves.

Advanced asset management
 The RFID tag on board every Rainin

XLS+ pipette stores calibration

data that is electronically read by the Rainin SmartStand and PipetteX

software. See page 67 for details

| | CATALOG No. | VOLUME RANGE | PRICE |
|-----------------|-------------|--------------|-----------|
| | 17014413 | 0.1–2 μL | \$ 570.00 |
| | 17014409 | 0.5–10 μL | 570.00 |
| | 17014412 | 2–20 μL | 570.00 |
| ts1 | 17014408 | 10–100 μL | 570.00 |
| Pipet-Lite XLS+ | 17014411 | 20–200 μL | 570.00 |
| et-Li | 17014414 | 20-300 μL | 570.00 |
| Pip | 17014407 | 100–1000 μL | 570.00 |
| | 17014410 | 200–2000 μL | 570.00 |
| | 17011801 | 500–5000 μL | 570.00 |
| | 17011795 | 1-10 mL | 570.00 |

Universal pipettes use universal tips. For pipette specifications, see page 20

...

| | CATALOG No. | VOLUME RANGE | PRICE |
|------------|-------------|--------------|-----------|
| | 17014393 | 0.1–2 μL | \$ 570.00 |
| | 17014388 | 0.5–10 μL | 570.00 |
| | 17014392 | 2–20 μL | 570.00 |
| | 17014384 | 10-100 μL | 570.00 |
| XLS | 17014391 | 20-200 μL | 570.00 |
| Life | 17014405 | 20-300 μL | 570.00 |
| Pipet-Lite | 17014382 | 100-1000 μL | 570.00 |
| <u> </u> | 17014390 | 200–2000 μL | 570.00 |
| | 17011790 | 500-5000 μL | 570.00 |
| | 17011783 | 1-10 mL | 570.00 |
| | 17011788 | 2-20 mL | 570.00 |

LTS pipettes use LTS tips. For pipette specifications, see page 20

You Deserve LTS

Happy Hands Yield Better Results!

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



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 us and universal w 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!



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.



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 65

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.

| LTS | | | |
|------|-------------|--------------|-------------|
| | CATALOG No. | VOLUME RANGE | PRICE |
| | 17014484 | 0.5–10 μL | \$ 1,286.00 |
| | 17014487 | 2-20 μL | 1,286.00 |
| | 17014483 | 10-100 μL | 1,286.00 |
| | 17014486 | 20-200 μL | 1,286.00 |
| XLS+ | 17014488 | 20–300 μL | 1,286.00 |
| E4 × | 17014482 | 100-1000 μL | 1,286.00 |
| | 17014485 | 200-2000 μL | 1,286.00 |
| | 17012312 | 500–5000 μL | 1,286.00 |
| | 17012313 | 1-10 mL | 1,286.00 |
| | 17012314 | 2-20 mL | 1,286.00 |

LTS pipettes use LTS tips. Li-lon battery and wall power supply are included. For more information about LTS, see page 4. For pipette specifications, see page 20.

| ▶ mt. | com/ | SR-E |
|-------|------|------|
|-------|------|------|

| CATALOG No. | VOLUME RANGE | PRICE |
|-------------|--|--|
| 17014491 | 0.5–10 μL | \$ 1,286.00 |
| 17014494 | 2-20 µL | 1,286.00 |
| 17014490 | 10-100 μL | 1,286.00 |
| 17014493 | 20-200 μL | 1,286.00 |
| 17014495 | 20-300 μL | 1,286.00 |
| 17014489 | 100-1000 μL | 1,286.00 |
| 17014492 | 200-2000 μL | 1,286.00 |
| 17012353 | 500-5000 μL | 1,286.00 |
| 17012354 | 1-10 mL | 1,286.00 |
| | 17014491 17014494 17014490 17014493 17014495 17014489 17014492 17012353 | 17014491 0.5–10 μL 17014494 2–20 μL 17014490 10–100 μL 17014493 20–200 μL 17014495 20–300 μL 17014489 100–1000 μL 17014492 200–2000 μL 17012353 500–5000 μL |

Universal pipettes use universal tips. Li-lon battery and wall power supply are included. For pipette specifications, see page 20.

Rainin XLS+ Multichannels

Performance You Can Feel!

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

E4 XLS+ Electronic Multichanne

Nothing compares with the functional 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

| el lity, | EAMS) RANIN | SCHOOLS STATE OF THE STATE OF T |
|-------------|----------------|--|
| RICE | RAININ | ryedu |
| 3.00 | | eamin |
| 3.00 | | |
| 3.00 | | |
| 3.00 | | |
| 3.00 | | |
| 6.00 | 2anin | |
| 5.00 | 30 - 200 M LTS | |
| 7.00 | | 20 720 |
| 7.00 | 1111111 | The state of the s |
| 7.00 | | ' ' |
| 7.00 | | ' 1 |
| 0.00 | | · 1 |

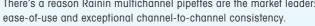
E4 XLS+ Electronic

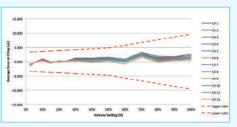
Pipet-Lite XLS+ Manual

| | CATALOG No. | VOLUME RANGE | PRICE |
|-------------------------|-------------|--------------|-------------|
| | 8-Channel | | |
| | 17013792 | 0.5–10 μL | \$ 2,233.00 |
| | 17013793 | 2-20 µL | 2,233.00 |
| nnel | 17013794 | 5–50 μL | 2,233.00 |
| icha | 17013795 | 20–200 μL | 2,233.00 |
| Mult | 17013796 | 20–300 μL | 2,233.00 |
| Electronic Multichannel | 17014498 | 100–1200 μL | 2,346.00 |
| etro | 12-Channel | | |
| ä | 17013797 | 0.5–10 μL | \$ 2,835.00 |
| +STX | 17013798 | 2-20 µL | 2,557.00 |
| E4 | 17013799 | 5–50 μL | 2,557.00 |
| | 17013800 | 20-200 μL | 2,557.00 |
| | 17013801 | 20–300 μL | 2,557.00 |
| | 17014499 | 100–1200 μL | 3,432.00 |

LTS pipettes use LTS tips. Li-Ion battery and wall power supply are included. For more information about LTS, see page 4. For pipette specifications, see page 21.

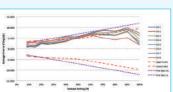
Industry-leading Channel-to-Channel Consistency There's a reason Rainin multichannel pipettes are the market leader:





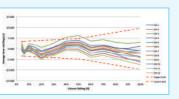


Rainin XLS+ 1200 µL



Competitor A • 1200 µL

VS.



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 | | | |
|-------------------------------------|-------------|--------------|-------------|
| | CATALOG No. | VOLUME RANGE | PRICE |
| | 8-Channel | | |
| | 17013802 | 0.5-10 μL | \$ 1,513.00 |
| ē | 17013803 | 2-20 μL | 1,302.00 |
| hanr | 17013804 | 5–50 μL | 1,302.00 |
| ul†ic | 17013805 | 20-200 μL | 1,302.00 |
| Ē | 17013806 | 20-300 μL | 1,302.00 |
| aunc | 17014496 | 100-1200 μL | 1,724.00 |
| Pipet-Lite XLS+ Manual Multichannel | 12-Channel | | |
| XLS | 17013807 | 0.5–10 μL | \$ 1,734.00 |
| Lite | 17013808 | 2-20 μL | 1,631.00 |
| ipet- | 17013809 | 5-50 μL | 1,631.00 |
| • | 17013810 | 20-200 μL | 1,631.00 |
| | 17013811 | 20-300 μL | 1,631.00 |
| | 17014497 | 100-1200 μL | 2,449.00 |
| | | | |

LTS pipettes use LTS tips.

For more information about LTS, see page 4. For pipette specifications, see page 21.

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

| ſ | LTS | Ì |
|---|-----|---|
| l | | l |

| | CATALOG No. | VOLUME RANGE | PRICE |
|---------------------------|-----------------------|----------------------|-------------------------|
| o le | 6-Channel | | |
| ıstal | 17011841 | 20–300 μL | \$ 2,161.00 |
| Adji | 17011840 | 100-1200 μL | 2,161.00 |
| | | | |
| XLS | 8-Channel | | |
| Lite XLS | 8-Channel 17011844 | 5–50 μL | \$ 2,161.00 |
| Pipet-Lite XLS Adjustable | | 5–50 μL 20–300 μL | \$ 2,161.00 2,161.00 |

LTS pipettes use LTS tips.

For more information about LTS, see page 4.

For pipette specifications, see page 21.



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 |
| | 6-Channel | | |
| e e | 17012327 | 20-300 μL | \$ 3,658.00 |
| E4 XLS Adjustable | 17012328 | 100–1200 μL | 3,658.00 |
| Adj | 8-Channel | | |
| XLS | 17012329 | 5–50 μL | \$ 3,653.00 |
| 7 | 17012330 | 20-300 μL | 3,658.00 |
| | 17012331 | 100–1200 μL | 3,653.00 |
| | | | |

LTS pipettes use LTS tips. Li-lon battery and wall power supply are included. For more information about LTS, <u>see page 4</u>. For pipette specifications, <u>see page 21</u>.

Reservoirs for Multichannel Pipettes

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

| CATALOG No. | | | PRICE |
|-------------|---------------------------------------|---------|-----------|
| 30852500 | Reservoir with lid, non-sterilized | 25/pack | \$ 125.00 |
| 30852501 | Reservoir without lid, non-sterilized | 50/pack | 145.00 |





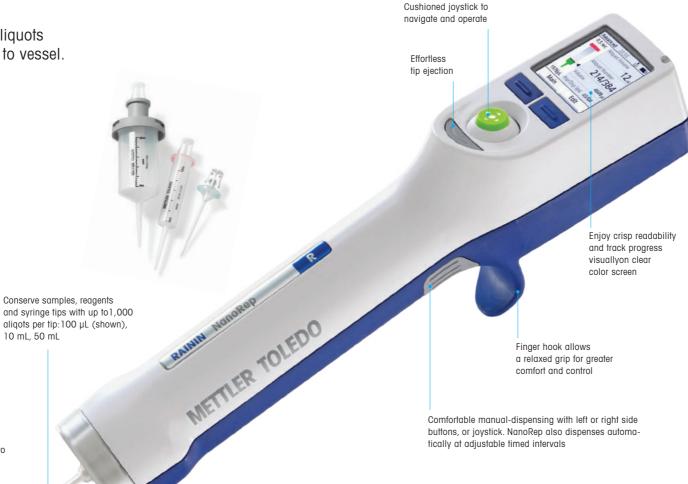


Rainin NanoRep

Electronic Repeater Pipette

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 $10 \text{ nL} - \text{down to } 1/10,000^{\text{th}}$ the nominal volume of any syringe tip
- Up to 1,000 aliquots from one aspiration



NanoRep syringe tips I Specifications

| Tip Vol. mL | 1% | Systema 10% | tic Error 50% | 100% |
|--------------------|------------|----------------|-------------------------|-----------|
| 0.1 | 1 μL | 10 μL | 50 μL | 100 μL |
| | ± 8% | ± 1.6% | ± 0.90% | ± 0.90% |
| | (0.080 μL) | (0.16 μL) | (0.45 μL) | (0.90 μL) |
| 10 | 100 μL | 1 mL | 5 mL | 10 mL |
| | ± 2% | ± 0.40% | ± 0.40% | ± 0.30% |
| | (2.0 μL) | (4.0 μL) | (20 μL) | (30 μL) |
| 50 | 500 μL | 5 mL | 25 mL | 50 mL |
| | ± 2% | ± 0.25% | ± 0.25% | ± 0.25% |
| | (10 μL) | (12.5 μL) | (62.5 μL) | (125 μL) |

| Tip Vol. | 1% | Randor 10% | m Error 50% | 100% |
|----------|-----------|---------------|-----------------------|-----------|
| 0.1 | 1 μL | 10 μL | 50 μL | 100 µL |
| | ≤ 12% | ≤ 2.5% | ≤ 0.80% | ≤ 0.50% |
| | (0.12 μL) | (0.25 μL) | (0.40 μL) | (0.50 µL) |
| 10 | 100 μL | 1 mL | 5 mL | 10 mL |
| | ≤ 3% | ≤ 0.35% | ≤ 0.20% | ≤ 0.15% |
| | (3.0 μL) | (3.5 μL) | (10 μL) | (15 μL) |
| 50 | 500 μL | 5 mL | 25 mL | 50 mL |
| | ≤ 3.5% | ≤ 0.45% | ≤ 0.20% | ≤ 0.10% |
| | (17.5 μL) | (22.5 μL) | (50 µL) | (50 μL) |

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.

| | CATALOG No. | DESCRIPTION | PRICE |
|----------|-------------|---|-------------|
| <u>a</u> | 30568171 | Electronic NanoRep repeater pipette (includes: charging cable, Hang-Up and 10 mL syringe tip) | \$ 1,775.00 |
| OKe | 17012878 | Wall Power Supply | 77.20 |
| | 30584027 | Hang-Ups (for pipettes with fingerhook) | 92.85 |
| | 30575784 | NanoRep stand | 121.00 |

10 mL, 50 mL

| | CATALOG No. | MAX. VOLUME | QUANTITY | | PRICE |
|--------------|-------------|-------------|-------------|---------|-----------|
| ips | 30575705 | 0.1 mL | 100 per pkg | | \$ 175.80 |
| ge 1 | 30575777 | 0.1 mL | 25 per pkg | Sterile | 55.60 |
| Syringe Tips | 30575707 | 10 mL | 100 per pkg | | 175.80 |
| Sd | 30575779 | 10 mL | 25 per pkg | Sterile | 55.60 |
| NanoRep | 30575789 | 50 mL | 25 per pkg | | 76.20 |
| Na n | 30575781 | 50 mL | 25 per pkg | Sterile | 87.60 |

mt.com/SR-NR

Avoid contact contamination with

100-nanoliter aliquots

No Touch Off™ dispense – down to

^{**}Min. Increment = Lowest incremental adjustment/tip.

Rainin Classic

Timeless Design, Exceptional Performance

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

| CATALOG No. | VOLUME RANGE | PRICE |
|-------------|--|--|
| 17008648 | 0.1–2 μL | \$ 396.00 |
| 17008649 | 0.5–10 μL | 396.00 |
| 17008650 | 2-20 μL | 396.00 |
| 17008651 | 10–100 μL | 396.00 |
| 17008652 | 20–200 μL | 396.00 |
| 17008653 | 100–1000 μL | 396.00 |
| 17008654 | 500–5000 μL | 396.00 |
| 17008655 | 1-10 mL | 396.00 |
| 17008708 | Starter kit: PR-20, PR-200, PR-1000 and accessories | \$ 995.00 |
| | 17008648 17008649 17008650 17008651 17008652 17008653 17008654 17008655 | 17008648 0.1–2 μL 17008649 0.5–10 μL 17008650 2–20 μL 17008651 10–100 μL 17008652 20–200 μL 17008653 100–1000 μL 17008654 500–5000 μL 17008655 1–10 mL |

Universal pipettes use universal tips. For pipette specifications, see page 20.



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.

| | | VOL | | QT | Υ | |
|-------------------------|-------------|--|--|--------|----------|-----------|
| | | VOLUME RANGE | y / | TIPS// | STED | PRICE |
| | CATALOG No. | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | | 18 | PRICE |
| | 17008575 | 0.5-10 μL | | | | \$ 545.00 |
| ites | 17008576 | 3–25 μL | | | | 545.00 |
| ipe | 17008577 | 20–50 μL | | | | 545.00 |
| Pos-D Pipettes | 17008578 | 10-100 μL | | | | 545.00 |
| Pos | 17008579 | 50-250 μL | | | | 545.00 |
| | 17008580 | 100-1000 μL | | | | 545.00 |
| | 17008604 | 10 μL | 3 | 180 | √ | \$ 111.20 |
| | 17008605 | 25 µL | 3 | 180 | √ | 111.20 |
| | 17008606 | 50 μL | 3 | 180 | √ | 111.20 |
| Capillaries and Pistons | 17008607 | 100 μL | 3 | 180 | √ | 111.20 |
| Pis | 17008608 | 250 μL | 3 | 180 | ✓ | 111.20 |
| and | 17008609 | 1000 μL | 3 | 180 | √ | 111.20 |
| ries | 17012264 | 10 μL | 3 | 180 | | 100.80 |
| <u></u> | 17012265 | 25 μL | 3 | 180 | | 100.80 |
| Cap | 17012266 | 50 μL | 3 | 180 | | 100.80 |
| | 17012267 | 100 μL | 3 | 180 | | 100.80 |
| | 17012268 | 250 μL | 3 | 180 | | 100.80 |
| | 17012135 | 1000 μL | 3 | 180 | | 100.80 |



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 65):

- 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 us and universal unv



| | | | | i ngle C Ianual | hannel | | | | | ulticha anual | | | EI | ingle C | hannel | | |
|-----|-------------|--|--------|---------------------------|----------|-------------|------|----------|-------------|-------------------------|-----------|----------|-----|----------|----------|--------|-------------|
| LTS | CATALOG No. | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 7 / 0/ | 30, | 20 × W |)00/ 00/ | 500- | 20 M | 200 Chonney | 20 | 200 200 S | 20 200mg | 20% |) (O) | Smortice | Hang L | PRICE |
| | 30386738 | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | | \$ 1,945.00 |
| | 30579469 | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | ✓ | 1,677.00 |
| | 30386597 | ✓ | | √ | ✓ | ✓ | | | | | | | | | ✓ | | 1,806.00 |
| | 30579367 | ✓ | | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | 1,677.00 |
| | 30386599 | | | ✓ | ✓ | ✓ | | | | | | | | | ✓ | | 1,672.00 |
| | 30386737 | | | | ✓ | ✓ | ✓ | | | | | | | | ✓ | | 1,945.00 |
| | 30386734 | | | ✓ | ✓ | ✓ | | ✓ | | | | | | | ✓ | | 2,500.00 |
| LTS | 30386733 | | | ✓ | ✓ | ✓ | | | ✓ | | | | | | ✓ | | 2,500.00 |
| | 30386736 | | | ✓ | ✓ | ✓ | | | | ✓ | | | | | ✓ | | 2,778.00 |
| | 30386735 | | | ✓ | ✓ | ✓ | | | | | ✓ | | | | ✓ | | 2,778.00 |
| | 30386739 | | | | | | | ✓ | ✓ | | | | | | ✓ | | 2,217.00 |
| | 30456871 | | | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | 1,317.00 |
| | 30579472 | | | | | | | ✓ | ✓ | | | | | | | ✓ | 2,063.00 |
| | 30386740 | | | | | | | | | ✓ | ✓ | | | | ✓ | | 2,217.00 |
| | 30579471 | | | | | | | | | ✓ | ✓ | | | | | ✓ | 2,063.00 |
| | 30386731 | | | | | | | | | | | ✓ | ✓ | ✓ | √ | | 3,746.00 |
| | 30386598 | ✓ | | ✓ | ✓ | ✓ | | | | | | | | | ✓ | | \$ 1,806.00 |
| | 30386730 | | | ✓ | ✓ | ✓ | | | | | | | | | ✓ | | 1,672.00 |
| AND | 30456872 | | | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | 1,317.00 |
| | 30386732 | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | | 3,746.00 |
| | 17008708* | | | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | 995.00 |

* 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 us and universal wo 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 | | UNV | | |
|--------------|-------------|-------------|---------------|-----------|
| | CATALOG No. | CATALOG No. | VOLUME RANGE | PRICE |
| + | 17015221 | 17015230 | 0.1-2.0 μL | \$ 369.00 |
| *STX | 17015222 | 17015231 | 3-10 µL | 369.00 |
| E E | 17015223 | 17015232 | 11-20 μL | 369.00 |
| Pipet-Lite | 17015224 | 17015233 | 21-100 μL | 369.00 |
| | 17015225 | 17015234 | 101-200 μL | 369.00 |
| Fixed Volume | 17015226 | 17015235 | 201–1000 μL | 369.00 |
| 2 | 17015227 | 17015236 | 1001–2000 μL | 369.00 |
| ixed | 17015228 | 17015237 | 2001–5000 μL | 369.00 |
| " | 17015229 | 17015238 | 5001 μL-10 mL | 369.00 |

LTS pipettes use LTS tips. For more information about LTS, <u>see page 4.</u> Universal pipettes use universal tips.

To order: Please contact your Rainin sales representative.



RANDOM ERROR -

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+



| | | VO | L | INCREMEN | TμL | SYSTEMATI | C ERROR | RANDOM EF | ROR |
|-------------------------|-------------------|---------|--------|----------|-------|-----------|---------|-----------|-----|
| | | 4 | Š | ELECTION | OWN / | | | | |
| | PIPETTE VOLUME | NO LOME | MAMUA, | ELEC, | / % | (±) μL | / % | (≤) μL | |
| | 2 μL | 0.2 μL | 0.002 | n/a | 12 | 0.024 | 6.0 | 0.012 | |
| | | 1 μL | | | 2.7 | 0.027 | 1.3 | 0.013 | |
| | | 2 μL | | | 1.5 | 0.030 | 0.70 | 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 | 0.60 | 0.030 | |
| | | 10.0 µL | | | 1.0 | 0.10 | 0.40 | 0.040 | |
| | 20 μL | 2 μL | 0.02 | 0.02 | 7.5 | 0.15 | 2.0 | 0.040 | |
| | | 10 µL | | | 1.5 | 0.15 | 0.50 | 0.050 | |
| | | 20 µL | | | 1.0 | 0.20 | 0.30 | 0.060 | |
| | 100 µL | 10 µL | 0.2 | 0.1 | 3.5 | 0.35 | 1.0 | 0.10 | |
| | | 50 μL | | | 0.80 | 0.40 | 0.24 | 0.12 | |
| | | 100 µL | | | 0.80 | 0.80 | 0.15 | 0.15 | |
| | 200 μL | 20 µL | 0.2 | 0.2 | 2.5 | 0.50 | 1.0 | 0.20 | |
| es | | 100 µL | | | 0.80 | 0.80 | 0.25 | 0.25 | |
| Single-channel pipettes | | 200 μL | | | 0.80 | 1.6 | 0.15 | 0.30 | |
| <u> </u> | 300 µL | 30 µL | 0.5 | 0.2 | 2.5 | 0.75 | 1.0 | 0.30 | |
| i i | | 150 µL | | | 0.80 | 1.2 | 0.25 | 0.375 | |
| ੂੰ ਦੂ | | 300 µL | | | 0.80 | 2.4 | 0.15 | 0.45 | |
| ngle | 1000 µL | 100 µL | 2 | 1 | 3.0 | 3.0 | 0.60 | 0.60 | |
| Si | | 500 μL | | | 0.80 | 4.0 | 0.20 | 1.0 | |
| | | 1000 µL | | | 0.80 | 8.0 | 0.15 | 1.5 | |
| | 2000 μL | 200 µL | 2 | 2 | 3.0 | 6.0 | 0.60 | 1.2 | |
| | | 1000 µL | | | 0.8 | 8.0 | 0.20 | 2.0 | |
| | | 2000 µL | | | 0.8 | 16 | 0.12 | 2.4 | |
| | 5000 μL | 500 μL | 5 | 5 | 2.4 | 12 | 0.60 | 3.0 | |
| | | 2500 μL | | | 0.60 | 15 | 0.20 | 5.0 | |
| | | 5000 μL | | | 0.60 | 30 | 0.16 | 8.0 | |
| | 10 mL | 1 mL | 20 | 10 | 5.0 | 50 | 0.60 | 6.0 | |
| | | 5 mL | | | 1.0 | 50 | 0.20 | 10 | |
| | | 10 mL | | | 0.60 | 60 | 0.16 | 16 | |
| | 20 mL | 2 mL | 20 | 20 | 5.0 | 100 | 0.60 | 12 | |
| | | 10 mL | | | 1.0 | 100 | 0.20 | 20 | |
| | | 20 mL | | | 0.60 | 120 | 0.16 | 32 | |

All Rainin multichannel models, including:

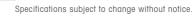
Manual pipettes

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

Electronic pipettes

- E4 XLS/XLS+
- E4 XLS Adjustable Spacer

| | | V | | | SYSTEMATIO | C ERROR | RANDOM ER | RROR – | RANDOM EF | |
|-----------------------|-------------------|---------|-----------|------|------------|---------|-----------|--------|-----------|--|
| | PIPETTE VOLUME | NOUME. | MANUAL V | % % | (±) μL | % | (≤) µL | % | (≤) μL | |
| | 10 µL | 1.0 µL | 0.02/0.01 | 4.0 | 0.040 | 5.0 | 0.050 | 3.0 | 0.030 | |
| | | 5.0 μL | | 1.5 | 0.075 | 1.5 | 0.075 | 0.80 | 0.040 | |
| | | 10.0 μL | | 1.0 | 0.10 | 0.50 | 0.050 | 0.50 | 0.050 | |
| | 20 µL | 2 μL | 0.02 | 7.5 | 0.15 | 4.0 | 0.080 | 3.0 | 0.060 | |
| | | 10 µL | | 1.5 | 0.15 | 1.5 | 0.15 | 1.0 | 0.10 | |
| | | 20 µL | | 1.0 | 0.20 | 0.5 | 0.10 | 0.30 | 0.060 | |
| Hes | 50 μL | 5 μL | 0.05 | 3.5 | 0.175 | 2.0 | 0.10 | 1.5 | 0.075 | |
| ipe | | 25 µL | | 1.2 | 0.30 | 0.50 | 0.125 | 0.40 | 0.10 | |
| Multichannel pipettes | | 50 μL | | 0.80 | 0.40 | 0.40 | 0.20 | 0.30 | 0.15 | |
| שם | 200 μL | 20 µL | 0.2 | 2.5 | 0.50 | 1.2 | 0.24 | 1.0 | 0.20 | |
| Hick | | 100 μL | | 0.80 | 0.80 | 0.25 | 0.25 | 0.25 | 0.25 | |
| Z | | 200 μL | | 0.80 | 1.6 | 0.30 | 0.60 | 0.20 | 0.40 | |
| | 300 µL | 30 µL | 0.5/0.2 | 2.5 | 0.75 | 1.5 | 0.45 | 1.0 | 0.30 | |
| | | 150 µL | | 0.80 | 1.2 | 0.30 | 0.45 | 0.25 | 0.375 | |
| | | 300 µL | | 0.80 | 2.4 | 0.25 | 0.75 | 0.20 | 0.60 | |
| | 1200 µL | 100 μL | 2/ 1 | 3.6 | 3.6 | 1.0 | 1.0 | 0.60 | 0.60 | |
| | | 600 µL | | 0.80 | 4.8 | 0.30 | 1.8 | 0.20 | 1.2 | |
| | | 1200 µL | | 0.80 | 9.6 | 0.20 | 2.4 | 0.15 | 1.8 | |







20 www.ShopRainin.com | 800.4.RAININ (800.472.4646) | 9 AM - 8 PM ET

96-Channel Pipetting

Faster, More Accurate Workflows

By making it possible to perform experiments more efficiently, accurately and reliably, 96-channel pipettors have become indispensable tools in many life science laboratories. They can significantly reduce the time and effort required to perform experiments, while providing higher accuracy and reproducibility. They are particularly useful in life science applications that involve large-scale screenings, such as drug discovery, ELISAs, proteomics and cell-based assays.

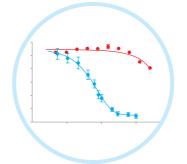
Unlike single- and multi-channel pipettes, which are more prone to human error and inconsistencies, manual and semi-automated 96-channel pipettors are ideal for research and scale-up, and can often provide more reliable and reproducible results. They also dispense small volumes of liquid with high accuracy, which is important in many life science applications that require precise measurements.

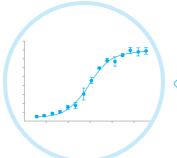
Rainin offers 96-channel pipettors to meet your exact need.

- MicroPro our most compact, affordable and advanced semi-automated 96-channel pipettor.
- BenchSmart 96 with four plate-trays, ideal for labs that do a lot of multi-plate work.
- Liquidator 96 perfect for researchers who want to manually-control every aspect of their workflow.

| | MicroPro | BenchSmart 96 | Liquidator 96 |
|--------------------------------|-----------------------|--------------------------------------|-----------------------|
| 96/384-Well Plate Applications | • | • | • |
| Interchangeable Heads | • | • | • |
| Suitable for BSL/PCR Cabinets | • | • | • |
| Small Footprint | • | • | • |
| Low Cost | • | • | • |
| Volume Range | 0.5-20 μL 5-300 μL | 0.5-20 μL 5-200 μL 100-1000 μL | 0.5-20 μL 5-200 μL |

How can a 96-channel pipettor speed your workflow?



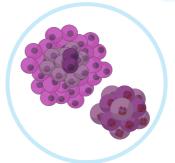


ELISA Assays

Enzyme-Linked Immunosorbent Assays (ELISA) are a commonly method for detecting and quantifying proteins or small molecules in biological samples. Using a 96-channel pipettor, you can simultaneously transfer the reagents to multiple wells or wash wells, significantly reducing the time and effort needed to perform an ELISA assay.

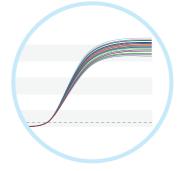
High-Throughput Screening

A 96-channel pipettor enables you to significantly increase your screening capacity and streamline workflows. You can quickly and accurately screen large numbers of samples for various applications, such as genomic, drug screening or proteomics research.



Cell-Based Assays

Cell-based assays are used to study the behavior of cells in response to various stimuli. Using a 96-channel pipettor, you can quickly and accurately transfer cells, reagents and other components to multiple wells, enabling you to perform high-throughput cell-based assays.



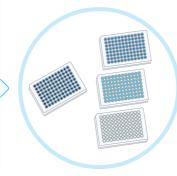
PCR/qPCR Amplification

Polymerase Chain Reaction (PCR) is a method used to amplify DNA and RNA sequences. Using a 96-channel pipettor, you can quickly and accurately transfer the reagents needed for PCR amplification, streamlining the process and increasing the throughput.



Plate Replication

Plate replication is commonly used in life science research to create multiple copies of a plate for analysis. Using a 96-channel pipettor, you can quickly and accurately transfer the contents of a mother plate to multiple daughter plates, increasing efficiency and reducing the chance of errors.



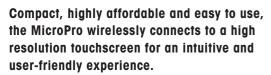
DNA Sequencing

DNA sequencing is a critical technique used in genomics research. Using a 96-channel pipettor, researchers can quickly and accurately accomplish the many sample preparation steps often involved prior to DNA sequencing.

Rainin MicroPro

Affordable, Portable 96-Channel Pipetting

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



- 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.



NEW



MicroPro Tips

The innovative and proprietary design of the MicroPro pipette tips and tip cartridges requires minimal force for tip loading of all 96 tips. This significant force reduction allows MicroPro to be small and light in weight — currently the smallest benchtop on the market! MicroPro tips work with the Rainin MicroPro instrument only. They are available as low-retention tips in 20 µL and 300 µL volume sizes, sterilized and sterilized with filter.



MicroPro

| | CATALOG No. | MAX VOL | DESCRIPTION | PRICE |
|----------|-------------|---------|-------------------------------|--------------|
| <u>e</u> | 30835029 | 20 μL | 0.5-20 μL MicroPro 20 | \$ 12,500.00 |
| MicroPro | 30835028 | 300 µL | 5-300 μL MicroPro 300 | 12,500.00 |
| Ž | 30835030 | | Two-Tray Dual Nest, MPR 96/96 | 1,500.00 |

See page 30 for high-throughput MicroPro tips.

24 www.ShopRainin.com | 800.4.RAININ (800.472.4646) | 9 AM - 8 PM ET

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 μ L head, the lab workhorse you need with the 5-200 μ L head, and the multi-dispensing capability of the 100-1000 μ L 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.



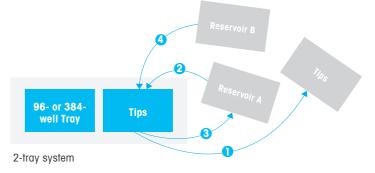


Speed your workflow

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.







BenchSmart 96



| | CATALOG No. | MAX VOL | DESCRIPTION | PRICE |
|-------|-------------|---------|---|--------------|
| | 30296705 | 20 μL | 0.5-20 µL BenchSmart 96, complete | \$ 25,725.00 |
| | 30296706 | 200 μL | 5-200 µL BenchSmart 96, complete | 25,725.00 |
| 96 | 30296707 | 1000 μL | 100-1000 µL BenchSmart 96, complete | 25,725.00 |
| BST | 30296708 | 20 μL | Pipetting head 0.5-20 µL, BenchSmart 96 | 10,355.00 |
| | 30296709 | 200 μL | Pipetting head 5-200 µL, BenchSmart 96 | 10,355.00 |
| | 30296780 | 1000 μL | Pipetting head 100-1000 μL , BenchSmart 96 | 10,355.00 |
| | 17010394 | - | 384-well adapter plate stage, white | \$ 449.00 |
| Accs. | 17010791 | - | 384-well adapter plate stage, black | 449.00 |
| ٩ | 30321288 | - | Terminal Conversion Kit | 505.00 |

See page 30 for high-throughput LTS tips. For reservoirs, plates, mats and strips, see page 29.

Rainin Liquidator 96

Manual High-Throughput Pipetting

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

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.

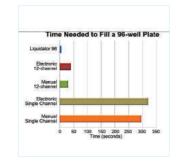
- Two volume ranges: 0.5-20 µL and 5-200 µL
- No power or programming: simply set the volume and pipette
- Four-position platform: process up to 3 plates at a time without stacking





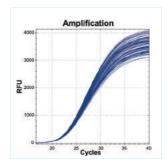
Easy to use

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.





Liquidator 96



| | CATALOG No. MAX VOL | | DESCRIPTION | PRICE |
|----|---------------------|--------|-------------------------------------|--------------|
| 96 | 17014207 | 20 µL | 0.5-20 µL Benchtop Pipetting System | \$ 24,958.00 |
| ۳ | 17010335 | 200 μL | 5-200 µL Benchtop Pipetting System | 24,958.00 |

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

| | 17014270 | _ | Height adjustment posts, 0.5-20 μL Liquidator | \$ 84.40 |
|---------|----------|---|--|----------|
| Accs. | 17010396 | _ | Height adjustment posts, 5-200 µL Liquidator | 83.20 |
| 96 A | 17010394 | - | 384-well adapter plate stage, white | 449.00 |
| 0 - | 17010791 | _ | 384-well adapter plate stage, black | 449.00 |
| | 17011118 | - | 20 µL tip tray adapter, white | 389.00 |

Reservoirs, plates, mats and strips

Reusable SBS footprint polypropylene reservoirs

| | CATALOG No. | DESCRIPTION | | |
|------------|-------------|-------------|--|-------------------|
| Reservoirs | 17012602 | Non-sterile | Low-profile 96 pyramidal bottoms | 5-pack |
| | 17012603 | Sterile | Low-profile 96 pyramidal bottoms | 5-pack, ind. wrap |
| | 17012604 | Non-sterile | Standard profile 96 pyramidal bottoms | 5-pack |
| | 17012605 | Sterile | Standard profile 96 pyramidal bottoms | 5-pack, ind. wrap |
| | 17012608 | Non-sterile | Low-profile 8-channel V-bottom | 5-pack |
| | 17012609 | Sterile | Low-profile 8-channel V-bottom | 5-pack |
| eser | 17012606 | Non-sterile | Standard profile 8-channel V-bottom | 5-pack |
| ~ | 17012607 | Sterile | Standard profile 8-channel V-bottom | 5-pack, ind. wrap |
| | 17012612 | Non-sterile | Low-profile 12-channel V-bottom | 5-pack |
| | 17012613 | Sterile | Low-profile 12-channel V-bottom | 5-pack, ind. wrap |
| | 17012610 | Non-sterile | Standard profile 12-channel V-bottom | 5-pack |
| | 17012611 | Sterile | Standard profile 12-channel V-bottom | 5-pack, ind. wrap |
| | 17012623 | Non-sterile | 2.2 mL 96-deepwell plate, | 5-pack |
| ssories | 17012624 | Sterile | 2.2 mL 96-deepwell plate, | 5-pack, ind. wrap |
| SSO | 17012625 | Non-sterile | Polymer sealing mat fits 96-deepwell plate | 5-pack |

Polymer sealing mat fits 96-deepwell plate 5-pack, ind. wrap

1.2 mL racked microtube strips (8x12)

Sterile

17012626

17012630 Sterile

Deepwell plates, mats, tube strips, cap strips

28 www.ShopRainin.com | 800.4.RAININ (800.472.4646) | 9 AM - 8 PM ET

PRICE

\$ 71.60

103.80

83.40

116.00

71.60 103.80 83.40 116.00 71.60

103.40 82.80

116.00

41.80

71.60

41.80

71.60

69.00

Tips for 96-Channel Platforms

High-Throughput LTS Tips

| riigii-iriiougiipui | LIC | o lipo | | | | | | | | |
|-------------------------|---------------|-------------------------------|--------------------------|------------|------|-------------|----------|----------|----------|-----------|
| For use with BenchSmart | | | · | VOL | | QT | Υ | | FE | ATURES |
| pipettors only (1000 μL | LTS | enchSmart only). CATALOG No. | DESCRIPTION | Max VOLUME | RACI | TIPS CARTON | STE | FILZ | 1/ER | PRICE |
| | | 17011185 | LQR LTS 20µL 960/10 | 20 μL | 10 | 960 | | | | \$ 114.80 |
| | | 17011186 | LQR LTS 20µL S 960/10 | 20 µL | 10 | 960 | 1 | | | 133.40 |
| | | 17011117 | LQR LTS 20µL F 960/10 | 20 μL | 10 | 960 | √ | √ | | 191.60 |
| | | 17010645 | LQR LTS 200µL 960/10 | 200 μL | 10 | 960 | | | | 114.80 |
| | | 17010647 | LQR LTS 200µL S 960/10 | 200 μL | 10 | 960 | √ | | | 133.40 |
| | ω. | 17010646 | LQR LTS 200µL F 960/10 | 200 μL | 10 | 960 | ✓ | √ | | 191.60 |
| | Tips in Racks | 30281704 | LQR LTS 1000µL 960/10 | 1000 μL | 10 | 960 | | | | 140.80 |
| | ï. R | 30296781 | LQR LTS 1000µL S 960/10 | 1000 μL | 10 | 960 | ✓ | | | 161.20 |
| | ips | 30296782 | LQR LTS 1000µL F 960/10 | 1000 µL | 10 | 960 | ✓ | ✓ | | 228.00 |
| | - | 17014399 | LQR LTS 20µL LS 960/10 | 20 µL | 10 | 960 | ✓ | | ✓ | 161.20 |
| | | 17014400 | LQR LTS 20µL FL 960/10 | 20 μL | 10 | 960 | ✓ | √ | ✓ | 236.00 |
| | | 17014401 | LQR LTS 200µL LS 960/10 | 200 μL | 10 | 960 | ✓ | | ✓ | 161.20 |
| | | 17014402 | LQR LTS 200µL FL 960/10 | 200 μL | 10 | 960 | ✓ | ✓ | ✓ | 236.00 |
| | | 30296783 | LQR LTS 1000µL LS 960/10 | 1000 μL | 10 | 960 | ✓ | | ✓ | 161.20 |
| | | 30296784 | LQR LTS 1000µL FL 960/10 | 1000 μL | 10 | 960 | ✓ | ✓ | ✓ | 236.00 |
| | | 17011187 | LQS LTS 20µL 960/10 | 20 μL | 10 | 960 | | | | \$ 114.80 |
| | cks | 17011287 | LQS LTS 20µL S 960/10 | 20 μL | 10 | 960 | ✓ | | | 133.40 |
| | Stacks | 17010648 | LQS LTS 200µL 960/10 | 200 μL | 10 | 960 | | | | 114.80 |
| | Tips in | 17010649 | LQS LTS 200µL S 960/10 | 200 μL | 10 | 960 | ✓ | | | 133.40 |
| | Ē | 17014403 | LQS LTS 20µL LS 960/10 | 20 μL | 10 | 960 | ✓ | | ✓ | 161.20 |
| | | 17014404 | LQS LTS 200µL LS 960/10 | 200 μL | 10 | 960 | ✓ | | ✓ | 161.20 |

MicroPro Tips in Racks



| sdi | 63305398 | MPR 20µL LS 4800/50 | 20 μL | 50 | 4800 | √ | | ✓ | \$ 498.00 |
|------|----------|----------------------|--------|----|------|--------------|----------|----------|-----------|
| ro T | 63305397 | MPR 20µL LF 4800/50 | 20 µL | 50 | 4800 | \checkmark | ✓ | ✓ | 686.00 |
| croP | 63305400 | MPR 300µL LS 4800/50 | 300 μL | 50 | 4800 | \checkmark | | √ | 463.00 |
| Ĕ | 63305399 | MPR 300µL LF 4800/50 | 300 µL | 50 | 4800 | ✓ | √ | ✓ | 667.00 |

Specifications for 96-Channel Platforms

| | MODEL/MAX. VOLUME | 20 μL | 200 μL | 1000 μL |
|------------|-----------------------------------|--|---|---|
| | HEAD SIZE | LOW VOLUME 0.5 - 20 µL | MID VOLUME 5 - 200 μL | HIGH VOLUME 100 - 1000 μL |
| rt 96 | Systematic Error (per channel) | 20 μL: ± 1.0% (0.20 μL) 10 μL: ± 1.2% (0.12 μL) 2 μL: ± 6.0% (0.12 μL) 1 μL: ± 12% (0.12 μL) | 200 μL: ± 1.0% (2.0 μL) 100 μL: ± 1.0% (1.0 μL) 20 μL: ± 2.0% (0.40 μL) 5 μL: ± 5.0% (0.25 μL) | 1000 μL: ± 1.0% (10 μL) 500 μL: ± 1.0% (5.0 μL) 100 μL: ± 2.5% (2.5 μL) |
| BenchSmart | Random Error (per channel) | 20 μ L: \leq 0.80% (0.16 μ L) 10 μ L: \leq 1.0% (0.10 μ L) 2 μ L: \leq 5.0% (0.10 μ L) 1 μ L: \leq 10% (0.10 μ L) | $\begin{array}{llllllllllllllllllllllllllllllllllll$ | 1 1 / |
| | Volume Increments | 0.02 μL | 0.2 μL | 1 μL |

| | MODEL/MAX. VOLUME | 20 μL | 200 μL |
|------------|-----------------------------------|--|--|
| | VOLUME RANGE | 2 – 20 μL | 5 – 200 μL |
| r 96 | Systematic Error (per channel) | 20 μL: ± 1.0% (0.20 μL) 10 μL: ± 1.2% (0.12 μL) 2 μL: ± 6.0% (0.12 μL) 1 μL: ± 12% (0.12 μL) | 200 μL: ± 1.0% (2.0 μL) 100 μL: ± 1.0% (1.0 μL) 20 μL: ± 2.0% (0.40 μL) 5 μL: ± 5.0% (0.25 μL) |
| Liquidator | Random Error (per channel) | 20 μ L: $\leq 0.80\%$ (0.16 μ L) 10 μ L: $\leq 1.0\%$ (0.10 μ L) 2 μ L: $\leq 5.0\%$ (0.10 μ L) 1 μ L: $\leq 10\%$ (0.12 μ L) | 200 μ L: \leq 0.50% (1.00 μ L) 100 μ L: \leq 0.80% (0.80 μ L) 20 μ L: \leq 1.5% (0.30 μ L) 5 μ L: \leq 3.5% (0.175 μ L) |
| | Volume Increments | 0.02 μL | 0.2 μL |

| | MODEL/MAX. VOLUME | 20 μL | 300 μL |
|----------|-----------------------------------|--|---|
| MicroPro | VOLUME RANGE | 2 – 20 μL | 5 – 300 μL |
| | 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 μ L: $\leq 0.5\%$ (0.10 μ L) 10 μ L: $\leq 1.0\%$ (0.10 μ L) 2 μ L: $\leq 3.0\%$ (0.06 μ L) | $300 \ \mu L: \le 1.0\% \ (3.0 \ \mu L)$ $150 \ \mu L: \le 1.0\% \ (1.50 \ \mu L)$ $30 \ \mu L: \le 1.0\% \ (0.30 \ \mu L)$ $15 \ \mu L: \le 2.0\% \ (0.30 \ \mu L)$ |
| | Volume Increments | 0.01 μL | 0.1 μL |

30 www.ShopRainin.com | 800.4.RAININ (800.472.4646) | 9 AM - 8 PM ET

Rainin SP+ Pipette Controller

Easy Control at Your Fingertips

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 | \$ 662.00 |
| | | 17011745 | Rainin SP+ spare filter | 16.60 |
| | Ē | 30671310 | Magnetic Hang-Up | 59.40 |
| | ĕ | 30621247 | Pipette adaptor | 35.80 |

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 |
|--|-------------|-------------|-------|-----------|--------------|------------|----------|
| | es | 30749261 | 1 mL | 1.3 mL | 200 per pack | Sterilized | \$ 43.80 |
| | Pipettes | 30749262 | 2 mL | 2.8 mL | 200 per pack | Sterilized | 51.40 |
| | | 30749263 | 5 mL | 8 mL | 100 per pack | Sterilized | 30.80 |
| | Serological | 30749264 | 10 mL | 13 mL | 100 per pack | Sterilized | 36.00 |
| | | 30749265 | 25 mL | 33 mL | 50 per pack | Sterilized | 36.00 |
| | | 30749266 | 50 mL | 60 mL | 50 per pack | Sterilized | 77.20 |



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. | \$ 2,907.00 |
| 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. | \$ 2,907.00 |
| 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. | 565.00 |
| 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. | 576.00 |

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



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 μ L 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 volume range: 2 | 1 1 | | \$ 586.00 |
| ItoRe | 17013009 | Shelf mount | | | 45.20 |
| ¥ | 17013010 | Volume table | | | 38.80 |
| | CATALOG No. | MAX. VOLUME | QUANTITY | | |
| | 17007399 | 0.1 mL | 100 per pkg | | \$ 140.80 |
| | 17007400 | 0.1 mL | 100 per pkg | Sterile | 198.20 |
| | 17001871 | 0.5 mL | 100 per pkg | | 140.80 |
| | 17001872 | 0.5 mL | 100 per pkg | Sterile | 198.20 |
| | 17013004 | 1 mL | 100 per pkg | | 140.80 |
| | 17013002 | 1 mL | 100 per pkg | Sterile | 200.80 |
| | 17001873 | 1.25 mL | 100 per pkg | | 140.80 |
| 10 | 17001874 | 1.25 mL | 100 per pkg | Sterile | 198.20 |
| nge | 17001877 | 2.5 mL | 100 per pkg | | 140.80 |
| Encode Syringes | 17001878 | 2.5 mL | 100 per pkg | Sterile | 198.20 |
| de | 17001883 | 5 mL | 100 per pkg | | 140.80 |
| inco | 17001884 | 5 mL | 100 per pkg | Sterile | 198.20 |
| | 17013005 | 10 mL | 100 per pkg | | 149.40 |
| | 17013003 | 10 mL | 100 per pkg | Sterile | 200.80 |
| | 17001875 | 12.5 mL | 100 per pkg | | 140.80 |
| | 17001876 | 12.5 mL | 100 per pkg | Sterile | 198.20 |
| | 17001879 | 25 mL* | 50 per pkg | | 161.20 |
| | 17001880 | 25 mL [*] | 25 per pkg | Sterile | 314.00 |
| | 17001881 | 50 mL* | 25 per pkg | | 160.00 |
| | 17001882 | 50 mL* | 25 per pkg | Sterile | 314.00 |

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



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.

| PAININ DISC-X | RMIN |
|---------------|------|
| | |

| | CATALOG No. | DESCRIPTION | | | PRICE |
|-------------|-------------|---------------------------------------|---------------|-------------------|-----------|
| | 30373527 | Disp-X 0.5-5 mL bottle- | top dispenser | | \$ 498.00 |
| Disp-X | 30373528 | Disp-X 1-10 mL bottle-t | op dispenser | | 498.00 |
| Dis | 30373529 | Disp-X 2.5–25 mL bottle-top dispenser | | | 681.00 |
| | 30373750 | Disp-X 5-50 mL bottle-top dispenser | | | 681.00 |
| | 30373751 | Disp-X discharge tube | 5 or 10 mL | | \$ 82.40 |
| | 30373752 | Disp-X discharge tube | 25 or 50 mL | | 82.40 |
| | 30373753 | Disp-X filling tube | 5 or 10 mL | 125-240 mm length | 33.00 |
| es | 30373754 | Disp-X filling tube | 5 or 10 mL | 250-480 mm length | 33.00 |
| Accessories | 30373755 | Disp-X filling tube | 25 or 50 mL | 170-330 mm length | 33.00 |
| ces | 30373756 | Disp-X filling tube | 25 or 50 mL | 250-480 mm length | 33.00 |
| Ac | 30373757 | Disp-X filling valve | 5 or 10 mL | | 82.40 |
| | 30373758 | Disp-X filling valve | 25 or 50 mL | | 81.80 |
| | 30373759 | Disp-X discharge valve | 5 or 10 mL | | 82.40 |
| | 30373760 | Disp-X discharge valve | 25 or 50 mL | | 82.80 |

mt.com/SR-AR

RaininService

Our Lab or Yours - You Choose.

Mail-in

- Service when you need it no waiting to schedule!
- Fast turnground
- 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 eplacement 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 turnground, with four ISO 17025accredited 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

esearch Lab Calibration label As Found N/A 4 Test weighings @ As Returned 10, 100 % Preventive Maintenance Yes **Calibration Certificate** Non-accredited Compliance ISO 8655-7 Annex A

Standard Plan **Advanced Plan** Labs with basic service needs performance matters

R&D

4 Test weighings @ 10, 100 % 4 Test weighings @ 10, 100 %

ISO 8655-7 Annex A

When prior

Research Lab Yes Non-accredited Accredited

Accredited Plan For complete ISO 17025 documentation





ISO 8655-7:2022

compliance Regulated Labs 10 Test weighings @ 10, 50, 100 % 10 Test weighings @ 10, 50, 100 % Yes Accredited

ISO 8655-6:2022

Accredited+ Plan

ISO 8655 and 17025

Ordering Information

Standard Plan As Found N/A As Returned 4 test weighings @ 10, 100%

- 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 | \$ 51.80 |
| 17800096 | Multichannel All — 8 channels | 139.00 |
| 17800131 | Multichannel All — 12 channels | 166.40 |
| 17800153 | Liquidator 96 | 2,407.00 |
| 30451098 | BenchSmart 96 Head | 2,407.00 |
| 30848615 | MicroPro | 2,407.00 |

Accredited Plan As Found 4 test weighings @ 10, 50, 100% 10 test weighings @ 10, 50, 100% As Returned 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 | \$ 121.20 |
| 17800113 | Multichannel All — 8 channels | 367.00 |
| 17800148 | Multichannel All — 12 channels | 411.00 |
| 30415512 | Liquidator 96 | 3,779.00 |
| 30451100 | BenchSmart 96 Head | 3,779.00 |
| 30848617 | MicroPro | 3,779.00 |

| Advanced Plan | |
|-----------------------------|--|
| 4 test weighings @ 10, 100% | |
| 4 test weighings @ 10, 100% | |

This plan includes all services provided under the Standard Plan.

PLUS:

As Found

As Returned

 As found calibration results, including failure confirmation

| CATALOG No. | DESCRIPTION | PRICE |
|-------------|--------------------------------|----------|
| 17800040 | Single channel | \$ 62.20 |
| 17800105 | Multichannel All — 8 channels | 191.80 |
| 17800140 | Multichannel AlI — 12 channels | 234.00 |
| 17800154 | Liquidator 96 | 2,840.00 |
| 30451099 | BenchSmart 96 Head | 2,840.00 |
| 30848616 | MicroPro | 2,840.00 |

Accredited+ Plan

As Found 10 test weighings @ 10, 50, 100% As Returned 10 test weighings @ 10, 50, 100%

This plan includes all services provided under the Accredited Plan.

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

| CATALOG No. | DESCRIPTION | PRICE |
|-------------|--------------------------------|-----------|
| 30829339 | Single channel | \$ 174.20 |
| 30829341 | Multichannel All — 8 channels | 555.00 |
| 30829342 | Multichannel All — 12 channels | 660.00 |
| | | |

| | Optional Services | | |
|---------------|---------------------------|----------|--|
| DNA/RNase dec | DNA/RNase decontamination | | |
| CATALOG No. | DESCRIPTION | PRICE | |
| 17800171 | Single channel | \$ 29.80 | |
| 17800401 | Multichannel | 59.60 | |
| 30932020 | 96-Channel | 178.80 | |

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



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

Ordering Information

| Basic Plan | | | |
|--|----------------------------|----------|--|
| As Found N/A | | | |
| As Returned | 4 test weighings @ 10, 10 | 0% | |
| Full preventive maintenance (PM) with leak test and seal replacement or restoration | | | |
| | | | |
| CATALOG No. | DESCRIPTION | PRICE* | |
| CATALOG No. 30445525 | DESCRIPTION Single channel | PRICE* | |
| | | | |
| 30445525 | Single channel | \$ 38.60 | |

| Standard Plan | | | | |
|---|--------------------------------|----------|--|--|
| As Found N/A | | | | |
| As Returned | 4 test weighings @ 10, 1009 | % | | |
| 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 | \$ 51.80 | | |
| 17800292 | Multichannel All – 8 channels | 142.60 | | |
| 17800256 | Multichannel All – 12 channels | 170.40 | | |
| | | | | |

| Advanced Plan | | | | | | | | |
|---|-----------------------------|----------------|--|--|--|--|--|--|
| As Found | 4 test weighings @ 10, 100% | 6 | | | | | | |
| As Returned | 4 test weighings @ 10, 100% | 6 | | | | | | |
| As found calibration results – including failure confirmation | | | | | | | | |
| As found | | re | | | | | | |
| As found confirmation | | | | | | | | |
| As found confirmation | ion | PRICE | | | | | | |
| As found confirmation CATALOG No. | DESCRIPTION | PRICE \$ 63.40 | | | | | | |

| Accredited Plan | | | | | | | | | |
|--|---|-----------|--|--|--|--|--|--|--|
| As Found 4 test weighings @ 10, 50, 100% | | | | | | | | | |
| As Returned 4 test weighings @ 10, 50, 100% | | | | | | | | | |
| 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 | \$ 111.60 | | | | | | | |
| 30451876 | 30451876 Multichannel All – 8 channels 308.00 | | | | | | | | |
| 30451852 | 30451852 Multichannel All – 12 channels 388.00 | | | | | | | | |
| | | | | | | | | | |

^{*} 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 |
|----------|-------------|---|----------|
| | 17014448 | Standard Single channel service voucher | \$ 51.80 |
| | 17014453 | Standard Multi-ALL 8-channel service voucher | 139.00 |
| | 17014456 | Standard Multi-ALL 12-channel service voucher | 166.40 |
| | 30415513 | Standard Liquidator 96 – 96 channels, includes box & round-trip UPS Ground shipping | 2,407.00 |
| | 30456199 | Standard BenchSmart 96 Head — 96 channels, includes round-trip UPS Ground shipping | 2,407.00 |
| က် | 17014449 | Advanced Single channel service voucher | 62.20 |
| Vouchers | 17014454 | Advanced Multi-ALL 8-channel service voucher | 191.80 |
| | 17014457 | Advanced Multi-ALL 12-channel service voucher | 234.00 |
| Service | 30415514 | Advanced Liquidator 96 – 96 channels, includes box & round-trip UPS Ground shipping | 2,840.00 |
| Se | 30456200 | Advanced BenchSmart 96 Head – 96 channels, includes round-trip UPS Ground shipping | 2,840.00 |
| | 17014450 | Accredited Single channel service voucher | 121.20 |
| | 17014455 | Accredited Multi-ALL 8-channel service voucher | 367.00 |
| | 17014458 | Accredited Multi-ALL 12-channel service voucher | 411.00 |
| | 30415517 | Accredited Liquidator 96 – 96 channels, includes box & round-trip UPS Ground shipping | 3,779.00 |
| | 30456201 | Accredited BenchSmart 96 Head – 96 channels, includes round-trip UPS Ground shipping | 3,779.00 |

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 80
 (200-472-4646, phages pation "2") or
 - Reach our technical support team at 800 4 Rainin (800-472-4646, choose option "3") or by email at tech.support@rainin.com

Reduce Plastic Waste with Rainin

Greener Tip Rack Solutions

Rainin offers a number of waste-saving pipette tip rack options to help meet your sustainability objectives. We've taken a three-pronged approach to reducing plastic rack waste:

- Reducing the amount of plastic particularly #5 polypropylene that, when recycled, downcycles into lower-quality products (e.g., doormats, crates, etc.).
- Replacing polypropylene with PET, which is more widely-recycled and recycled PET can be made into the same or similar products (water bottles, TerraRacks, etc.).
- · Avoiding plastic components, instead using natural, compostable materials like plant fiber.

Plastic savings shown below are calculated using our current standard 1000 μ L polypropylene tip rack as the baseline. Components used for the calculation include the rack base, lid, tip deck, sleeve (refills) and any plastic wrapping – tips are not included. Actual plastic savings percentages vary slightly by rack size (10 μ L racks are smaller than 1000 μ L racks). Our current standard rack, which we introduced in 2018, uses 20% less polypropylene than the rack it replaced, so the amount of plastic saved shown below is on top of the already-reduced plastic rack.



Bulk Tips

The most sustainable rack is the rack you don't use, which makes manually refilling spent racks and wafers with BioClean Ultra tips in bulk a reasonable option for some labs.



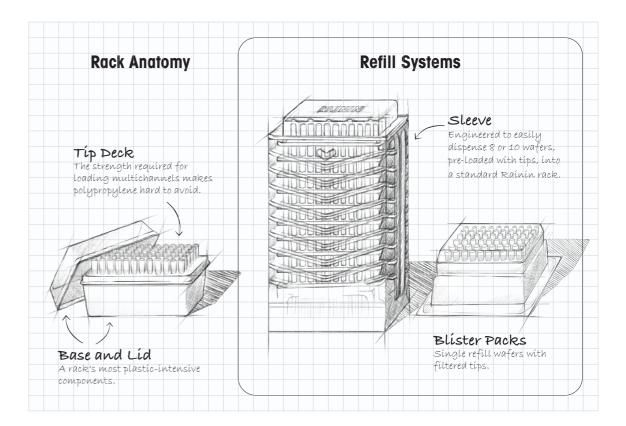
EarthRack

EarthRack eliminates plastic waste almost entirely. Other than the thin polypropylene tip deck, EarthRack is made entirely from compostable, rapidly renewable plant fiber. EarthRack uses up to 82% less plastic than the Rainin standard rack.



Green-Pak

Green-Pak and Green-Pak SpaceSaver refill systems for Rainin standard racks reduce plastic waste by up to 80%. Green-Pak's SpaceSaver sleeve and Green-Pak sealed refill packs are both made from highly-recyclable #1 PET.





StableStak

Rainin StableStak multilayer system is designed for highproduction multichannel work. With five layers mounted on a sturdy base and 192 tips per layer, each StableStak is equivalent to 10 96-tip racks.



TerraRack

Not only composed of 50% less plastic than the Rainin standard rack, TerraRack is made almost entirely from #1 PET – the same plastic as in water bottles and the most commonly recycled plastic worldwide. Easy to disassemble and compress, TerraRacks take up considerably less volume as waste.



Rainin Standard Rack

Like most pipette tip racks, Rainin standard racks are 100% polypropylene (#5), which is prized for strength and durability. This rack was reengineered in 2018 to reduce the amount of polypropylene it contains by 20%.

Rainin EarthRack

Compostable, Biodegradable Tip Rack

EarthRack is made primarily from refined cellulose that is easy to compost and is biodegradable. Because the small, recyclable polypropylene tip deck is the only plastic component, EarthRack significantly reduces plastic use and waste.

Available in 20 μ L, 200 μ L and 1000 μ L.

Rainin LTS LiteTouch System only. LTS



| | | | | | VOL | QTY | | FEATUR | ES |
|---|-----------|-------------|------------------------|------|-------|----------------------|-------|---------------|-----------|
| | | CATALOG No. | DESCRIPTION | Way. | RACKS | Mojakion Ilpsoare | STERM | PILIED PARTED | PRICE |
| + | 출 | 30807966 | ER LTS 20µL F 960G/10 | 20 | μL 10 | 960 | ✓ | ✓ | \$ 172.40 |
| | Edrinkack | 30807967 | ER LTS 200µL F 960G/10 | 200 | μL 10 | 960 | ✓ | ✓ | 172.40 |
| | | 30808038 | ER LTS 1000µL F 768G/8 | 1000 | μL 8 | 768 | ✓ | ✓ | 172.40 |

mt.com/SR-BCG



Rainin EarthRack products are certified to be BioClean Green — a comprehensive testing process and specifications developed specifically for cellulosebased tip racks.

Because EarthRack is derived from natural, plant-based materials, BioClean Green employs a broader, more intrusive quality testing procedure to assure the absence of biological contaminants. For example, the use of cellulose requires an additional test for chloroplast DNA. Testing for DNase and RNase has been expanded to include three separate tests for each nuclease for complete assurance of tip performance.

Specifications

BioClean Green Test Limits of Detection (LODs)

| Human DNA | <0.32 pg |
|-------------------------|-------------------------|
| Bacterial DNA | <0.032 pg |
| Plant (chloroplast) DNA | <0.032 pg |
| DNase (three tests) | |
| Gel electrophoresis | ≤10 ⁻⁷ KU/µL |
| • Kunitz Assay | ≤10 ⁻⁴ KU/µL |
| • qPCR | ≤10 ⁻⁵ KU/µL |
| RNase (three tests) | |
| Gel electrophoresis | ≤10 ⁻⁵ KU/µL |
| Kunitz Assay | ≤10 ⁻⁵ KU/µL |
| • RT-qPCR | ≤10 ⁻⁵ KU/µL |
| Endotoxin (LPS) | ≤0.01 EU/mL |
| Protein | <2 ng/tip |
| Protease | <500 ng/mL |
| PCR inhibitors | None detected |
| | |



Earth Friendly

EarthRack's lid and base are composed of a biodegradable bamboo and sugar cane cellulose material that can be composted at municipal facilities. If deposited in a landfill, they will biodegrade.



Reduces Plastic Waste

With up to 75% less plastic than conventional racks, adopting EarthRack can help organizations meet their sustainability objectives.



Less Carbon

When composted, incinerated or deposited into a landfill, EarthRack's cellulose components contribute no net increase in atmospheric CO₂. Carbon absorbed during initial plant growth is simply returned to the atmosphere.



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.



| | | | May VOLUM | PACH S. L. | 1105/CAP. | STERM | SHAFT | 74.5° | . / |
|-----------|-------------|------------------------|-----------|------------|-----------|-------|-------|--------|-----------|
| | CATALOG No. | DESCRIPTION | / Wat | PAC, | 1/2 | STE | SHA | FILTED | PRICE |
| | 17014960 | TR LTS 20µL S 960A/10 | 20 μL¹ | 10 | 960 | ✓ | | | \$ 101.20 |
| | 17014961 | TR LTS 20µL F 960A/10 | 20 μL¹ | 10 | 960 | ✓ | | ✓ | 156.80 |
| | 17014962 | TR LTS 250µL S 960A/10 | 200 μL² | 10 | 960 | ✓ | | | 101.20 |
| ~ | 17014963 | TR LTS 200µL F 960A/10 | 200 μL² | 10 | 960 | ✓ | | ✓ | 156.80 |
| Rac | 17014964 | TR LTS 300µL S 768A/8 | 300 µL | 8 | 768 | ✓ | | | 101.20 |
| TerraRack | 17014965 | TR LTS 300µL F 768A/8 | 300 µL | 8 | 768 | ✓ | | ✓ | 156.80 |
| - | 17014966 | TR LTS 1000µL S 768A/8 | 1000 μL | 8 | 768 | ✓ | | | 101.20 |
| | 17014967 | TR LTS 1000µL F 768A/8 | 1000 μL | 8 | 768 | ✓ | | ✓ | 156.80 |
| | 17014968 | TR LTS 1200µL S 768A/8 | 1200 µL | 8 | 768 | ✓ | | | 101.20 |
| | 17014969 | TR LTS 1200µL F 768A/8 | 1200 µL | 8 | 768 | ✓ | | ✓ | 156.80 |

VOL QTY FEATURES



| | 17014970 | TR UNV 10µL S 960A/10 | 10 µL | 10 | 960 | ✓ | | | \$ 101.20 |
|-----------|----------|------------------------|---------|----|-----|---|---|---|-----------|
| | 17014971 | TR UNV 10µL F 960A/10 | 10 μL | 10 | 960 | ✓ | | ✓ | 156.80 |
| | 17014972 | TR UNV 10µL GS 960A/10 | 10 μL | 10 | 960 | ✓ | ✓ | | 101.20 |
| | 17014973 | TR UNV 10µL GF 960A/10 | 10 μL | 10 | 960 | ✓ | ✓ | ✓ | 156.80 |
| J | 17014974 | TR UNV 20µL F 960A/10 | 20 μL | 10 | 960 | ✓ | | ✓ | 156.80 |
| TerraRack | 17014975 | TR UNV 100µL F 960A/10 | 100 μL | 10 | 960 | ✓ | | ✓ | 156.80 |
| Brra | 17014977 | TR UNV 200µL F 960A/10 | 200 μL | 10 | 960 | ✓ | | ✓ | 156.80 |
| Ť | 17014976 | TR UNV 250µL S 960A/10 | 250 μL | 10 | 960 | ✓ | | | 101.20 |
| | 17014978 | TR UNV 300µL S 768A/8 | 300 µL | 8 | 768 | ✓ | | | 101.20 |
| | 17014979 | TR UNV 300µL F 768A/8 | 300 µL | 8 | 768 | ✓ | | ✓ | 156.80 |
| | 17014980 | TR UNV 1000µL S 768A/8 | 1000 μL | 8 | 768 | ✓ | | | 101.20 |
| | 17014981 | TR UNV 1000µL F 768A/8 | 1000 µL | 8 | 768 | ✓ | | ✓ | 156.80 |

| ase | TerraBase Ac | ccessory for TerraRack | |
|-----|--------------|---|----------|
| a B | 17014982 | TerraRack Base - short; 1 base to fit 10 - 300 µL TerraRack racks | \$ 24.80 |
| Ter | 17014983 | TerraRack Base - tall; 1 base to fit 1000/1200 µL TerraRack racks | 27.60 |
| | | | |

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



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.





Sterilized

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





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 and universal wo 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





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





Double-96 Racked Tips

StableStak and StableRak

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

| | | | | V | OL | QT | / | FE | ATURE | S | |
|--|------------|-----------------|--------------------------------|---------------------|--------------------|-------------|--------------|----------|----------|----------|-------------|
| | | | | MA+ VOLUM. | 3 _{lu.} / | TIPS/CAPTOW | NO13/4 | FILTES | 2 /. | WIDE | 9 |
| | | CATALOG No. | DESCRIPTION | 1 + 811 | PA. | | STED. | F11/7E5 | SHAL | WIDE | PRICE |
| LTS | | 17005862 | SR LTS 20µL 960A/5 | 20 μL¹ | 5 | 960 | | | | | \$ 77.80 |
| | | 17005861 | SR LTS 20µL S 960A/5 | 20 μL ¹ | 5 | 960 | √ | | | | 101.20 |
| StableRak and | | 17005860 | SR LTS 20µL F 960A/5 | 20 μL ¹ | 5 | 960 | 1 | V | | | 155.80 |
| StableStak | | 17005864 | SR LTS 250µL 960A/5 | 200 μL ² | 5 | 960 | | | | | 77.80 |
| orabiooran. | | 17005863 | SR LTS 250µL S 960A/5 | 200 μL ² | 5 | 960 | 1 | | | | 101.20 |
| | | 17005859 | SR LTS 200µL F 960A/5 | 200 μL ² | 5 | 960 | √ | ✓ | | | 155.80 |
| | 粪 | 17005867 | SR LTS 300µL 768A/4 | 300 µL | 4 | 768 | | | | | 77.80 |
| | StableRak | 17005866 | SR LTS 300µL S 768A/4 | 300 μL | 4 | 768 | ✓ | | | | 101.20 |
| | Stat | 17005865 | SR LTS 300µL F 768A/4 | 300 µL | 4 | 768 | 1 | ✓ | | | 155.80 |
| | | 17007083 | SR LTS 1000µL 768A/4 | 1000 μL | 4 | 768 | | | | | 77.80 |
| | | 17007082 | SR LTS 1000µL S 768A/4 | 1000 µL | 4 | 768 | √ | | | | 101.20 |
| | | 17007081 | SR LTS 1000µL F 768A/4 | 1000 µL | 4 | 768 | √ | ✓ | | | 155.80 |
| | | 17007086 | SR LTS 1200µL 768A/4 | 1200 µL | 4 | 768 | | | | | 77.80 |
| | | 17007085 | SR LTS 1200µL S 768A/4 | 1200 µL | 4 | 768 | √ | | | | 101.20 |
| | | 17007084 | SR LTS 1200µL F 768A/4 | 1200 µL | 4 | 768 | √ | √ | | | 155.80 |
| | | 17005873 | SS LTS 20µL 960A/5 | 20 μL¹ | 5 | 960 | | | | | \$ 77.80 |
| | | 17005872 | SS LTS 20µL S 960A/5 | 20 μL ¹ | 5 | 960 | ✓ | | | | 101.20 |
| | 품 | 17005875 | SS LTS 250µL 960A/5 | 200 µL² | 5 | 960 | | | | | 77.80 |
| A THE OWNER OF THE OWNER OWNER OF THE OWNER OW | StableStak | 17005874 | SS LTS 250µL S 960A/5 | 200 µL² | 5 | 960 | ✓ | | | | 101.20 |
| | g g | 17005877 | SS LTS 300µL 768A/4 | 300 µL | 4 | 768 | | | | | 77.80 |
| | S | 17005876 | SS LTS 300µL S 768A/4 | 300 µL | 4 | 768 | \checkmark | | | | 101.20 |
| | | 17007090 | SS LTS 1000µL 768A/4 | 1000 µL | 4 | 768 | | | | | 77.80 |
| | | 17007089 | SS LTS 1000µL S 768A/4 | 1000 µL | 4 | 768 | ✓ | | | | 101.20 |
| UNV | | 17005857 | SR UNV 300µL 768/4 | 300 µL | 4 | 768 | | | | | \$ 77.80 |
| LTS | | 17001128 | RC LTS 20µL 1000A/1 | 20 μL¹ | | 1000 | | | | | \$ 59.80 |
| | | 17001118 | RC LTS 250µL 1000A/1 | 200 µL² | | 1000 | | | | | 59.80 |
| Dulle Time | | 17001132 | RC LTS 300µL 1000A/1 | 300 µL | | 1000 | | | | | 59.80 |
| Bulk Tips | | 17001129 | RC LTS 1000µL 1000A/1 | 1000 μL | | 1000 | | | | | 59.80 |
| LTS and UNV | sd : | 17006324 | RC LTS 1200μL 1000A/1 | 1200 µL | | 1000 | | | | | 59.80 |
| formats | Bulk Tips | 17001130 | RC LTS 2000µL 1000A/1 | 2000 µL | | 1000 | | | | | 121.40 |
| | B | 17001133 | RC LTS 5000µL 1000A/1 | 5000 μL | | 1000 | | | | | 135.80 |
| | | 17001119 | RC LTS 10mL 200A/1 | 10 mL | | 200 | | | | | 78.80 |
| | | 17005940* | RC LTS 10mL S 75A/* | 10 mL | | 75 | \checkmark | | | | 127.60 |
| | | 17001131 | RC LTS 20mL 100A/1 | 20 mL | | 100 | | | | | 78.80 |
| | | 17005941* | RC LTS 20mL S 50A/* | 20 mL | | 50 | ✓ | | | | 94.20 |
| UNV | | 17001124 | RC UNV 10µL 1000A/10 | 10 µL | | 1000 | | | | | \$ 59.80 |
| | | 17001123 | RC UNV 10µL G 1000A/10 | 10 µL | | 1000 | | | √ | | 59.80 |
| | | 17001116 | RC UNV 250µL 1000A/1 | 250 μL | | 1000 | | | | | 59.80 |
| | Tips | 17001127 | RC UNV 250µL W 1000A/1 | 250 μL | | 1000 | | | | √ | 59.80 |
| | ¥ | 17001121 | RC UNV 1000µL 1000A/1 | 1000 μL | | 1000 | | | | | 59.80 |
| | Bulk | 17001125 | RC UNV 2000µL 1000A/1 | 2000 μL | | 1000 | | | | | 121.40 |
| | | 17001126 | RC UNV 2500µL 1000A/1 | 2500 μL | | 1000 | | | | | 121.40 |
| | | 17001117 | RC UNV 5000µL 1000A/1 | 5000 μL | | 1000 | | | | | 136.80 |
| | | 17001122 | RC UNV 10mL 200A/1 | 10 mL | | 200 | 1 | | | | 78.80 |
| | *in di | 17005939* | RC UNV 10mL S 75A/* | 10 mL | d nic | 75 | Fito 50 | 100 | and o | 00 | 129.00 |
| | HIUIV | idually wrapped | Wide-O = Wide Orifice 1 Fits 2 | , 10 uiiu 20 ļ | ır hibi | CIIES * | 1118 90 | J, 100 | unu 2 | υυ μι | pipettes 55 |

Racked Tips

SBS Standard Tip Packaging

Removable-cover Racks

Removable-cover racks — easy, practical, convenient packaging. Many volume sizes available in both LTS us and universal wo 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 60)

LTS DESCRIPTION CATALOG No PRICE 30389200 RT LTS 20µL 960A/10 20 μL¹ 10 960 \$ 77.80 30389228 RT LTS 20µL S 960A/10 960 101.20 20 μL¹ 10 30389225 RT LTS 20µL F 960A/10 20 μL¹ 155.80 30389243 RT LTS 250µL 960A/10 200 μL² 10 960 77.80 30389247 RT LTS 250µL W 960A/10 200 μL² 10 960 93.40 101.20 30389245 RT LTS 250uL S 960A/10 $200 \mu L^2$ 10 30389249 RT LTS 250µL SW 960A/10 960 110.40 200 μL² 10 30389239 RT LTS 200µL F 960A/10 155.80 200 μL² 10 30389253 RT LTS 300µL 768A/8 300 μL 77.80 30389255 RT LTS 300µL S 768A/8 768 101.20 300 µL 8 30389254 RT LTS 300uL F 768A/8 768 155.80 300 uL 8 30389211 RT LTS 1000µL 768A/8 1000 µL 8 768 77.80 30389217 RT LTS 1000µL W 768A/8 1000 μL 768 93.40 8 30389215 RT LTS 1000µL S 768A/8 1000 µL 8 768 101.20

1000 µL

1000 µL

1200 µL

1200 µL

1200 µL

2000 μL

2000 µL

2000 μL

5000 μL

5000 μL 8

8 768

8

8 768

8

8

8 480

8

768

768

768

480

192

192

RT LTS 1000µL SW 768A/8

RT LTS 1000µL F 768A/8

RT LTS 1200µL 768A/8

RT LTS 1200µL S 768A/8

RT LTS 1200uL F 768A/8

RT LTS 2000µL 480A/8

RT LTS 2000µL F 480A/8

RT LTS 5000µL 192A/8

RT LTS 5000µL S 192A/8

RT LTS 2000µL S 480A/8

QTY

VOL

FEATURES

110.40

155.80

77.80

101.20

155.80

93.40

101.20

155.80

77.80

101.20

√

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

Autoclayable

15 psi, 121°C, 20 minutes

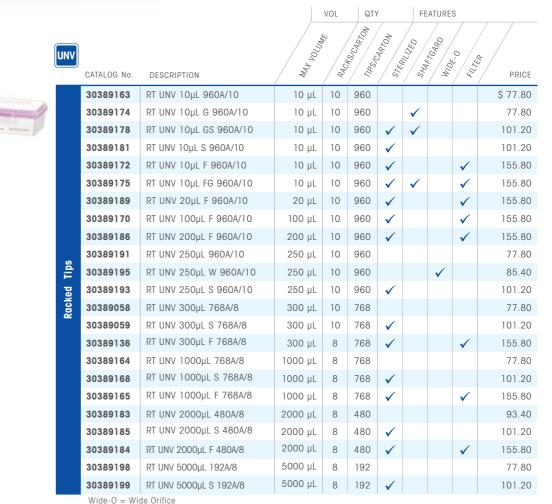
Format options

Standard, sterilized and filter versions available

Protective

Safe from dirt and contamination

▶ mt.com/SR-BCU



30389220

30389212

30389230

30389234

30389231

30389236

30389238

30389237

30389256

30389257



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.





OTV

VOI

EEATIIDES

Rainin **Low Retention** 10 µL Tip after dispensing

mt.com/SR-BCU

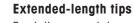
| | | VC | | QTY | | FE/ | ATURES | 3 | | | | |
|--|-------------|-------------|--------------------------|--|---------------------------------------|---------|--------------|-------|----------|----------|--------------|-----------|
| | UNV | | | MAY VOLIM | 31 | TIPS IN | MP70W | SHAFT | WID. | 0.35 Moy | FILTES | } |
| | | CATALOG No. | DESCRIPTION | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | / ~ | / % | / 55 | | / 3 | / 4 | PRICE |
| - | | 30389180 | RT UNV 10µL L 960A/10 | 10 µL | 10 | 960 | | | | ✓ | | \$ 101.20 |
| Manager (Manager) | | 30389182 | RT UNV 10µL LS 960A/10 | 10 µL | 10 | 960 | ✓ | | | ✓ | | 110.40 |
| | | 30389173 | RT UNV 10µL FL 960A/10 | 10 µL | 10 | 960 | ✓ | | | ✓ | ✓ | 169.20 |
| | | 30389177 | RT UNV 10µL GL 960A/10 | 10 µL | 10 | 960 | | ✓ | | ✓ | | 101.20 |
| | | 30389179 | RT UNV 10µL GLS 960A/10 | 10 µL | 10 | 960 | ✓ | ✓ | | ✓ | | 109.60 |
| | | 30389176 | RT UNV 10µL FGL 960A/10 | 10 µL | 10 | 960 | ✓ | ✓ | | ✓ | ✓ | 169.20 |
| | | 30389190 | RT UNV 20µL FL 960A/10 | 20 µL | 10 | 960 | ✓ | | | ✓ | ✓ | 169.20 |
| | | 30389171 | RT UNV 100µL FL 960A/10 | 100 µL | 10 | 960 | ✓ | | | ✓ | ✓ | 169.20 |
| | sd | 30389187 | RT UNV 200µL FL 960A/10 | 200 μL | 10 | 960 | \checkmark | | | ✓ | \checkmark | 169.20 |
| | Racked Tips | 30389188 | RT UNV 200µL FLW 960A/10 | 200 µL | 10 | 960 | ✓ | | ✓ | ✓ | ✓ | 169.20 |
| | icke | 30389192 | RT UNV 250µL L 960A/10 | 250 µL | 10 | 960 | | | | ✓ | | 101.20 |
| | 2 | 30389196 | RT UNV 250µL LW 960A/10 | 250 µL | 10 | 960 | | | ✓ | ✓ | | 101.20 |
| | | 30389194 | RT UNV 250µL LS 960A/10 | 250 µL | 10 | 960 | ✓ | | | ✓ | | 110.40 |
| | | 30389197 | RT UNV 250µL LSW 960A/10 | 250 µL | 10 | 960 | ✓ | | ✓ | ✓ | | 135.80 |
| | | 30389137 | RT UNV 300µL L 768A/8 | 300 µL | 8 | 768 | | | | ✓ | | 101.20 |
| | | 30389138 | RT UNV 300µL LS 768A/8 | 300 µL | 8 | 768 | ✓ | | | ✓ | | 110.40 |
| | | 30389139 | RT UNV 300µL FL 768A/8 | 300 µL | 8 | 768 | ✓ | | | ✓ | ✓ | 169.20 |
| | | 30389167 | RT UNV 1000µL L 768A/8 | 1000 μL | 8 | 768 | | | | ✓ | | 101.20 |
| | | 30389169 | RT UNV 1000µL LS 768A/8 | 1000 µL | 8 | 768 | ✓ | | | ✓ | | 110.40 |
| | | 30389166 | RT UNV 1000µL FL 768A/8 | 1000 µL | 8 | 768 | ✓ | | | ✓ | ✓ | 169.20 |
| | | 30389284 | GPS UNV 10µL GL 960A/10 | 10 µL | 10 | 960 | | ✓ | | ✓ | | \$ 101.20 |
| | e. | 30389286 | GPS UNV 10µL GLS 960A/10 | 10 µL | 10 | 960 | ✓ | ✓ | | ✓ | | 110.20 |
| | SpaceSaver | 30389288 | GPS UNV 250µL L 960A/10 | 250 μL | 10 | 960 | | | | ✓ | | 101.20 |
| Rack base not included | ace | 30389290 | GPS UNV 250µL LS 960A/10 | 250 μL | 10 | 960 | ✓ | | | ✓ | | 110.20 |
| with SpaceSaver. <u>See page 53</u> for | S | 30389280 | GPS UNV 1000µL L 768A/8 | 1000 µL | 8 | 768 | | | | ✓ | | 101.20 |
| empty racks. | | 30389282 | GPS UNV 1000μL LS 768A/8 | 1000 µL | 8 | 768 | ✓ | | | ✓ | | 109.60 |
| | | 17014395 | RC UNV 10µL L 1000A/1 | 10 µL | | 1000 | | | | ✓ | | \$ 75.20 |
| (Tree) | Ų | 17014396 | RC UNV 10µL GL 1000A/1 | 10 µL | | 1000 | | ✓ | | ✓ | | 75.20 |
| Andrew . | Bulk | 17014397 | RC UNV 250µL L 1000A/1 | 250 μL | | 1000 | | | | ✓ | | 75.20 |
| | | 17014398 | RC UNV 1000µL L 1000A/1 | 1000 μL | | 1000 | | | | ✓ | | 75.20 |
| | | 17015068 | RC UNV 1000µL LW 1000A/1 | 1000 µL | | 1000 | | | ✓ | ✓ | | 75.20 |



Specialty Tips

Unique Tips for Special Applications





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.





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 μ L.





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.



| LTS | | | Max VOLUM: | OL 4) | The Story | 7 | FE OF THE STATE OF | O. MOY | / | dy /4 | PRICE |
|-------------|-------------|--------------------------|--|-------------------------|-----------|----------|--|----------|----------|------------------|-----------|
| | CATALOG No. | DESCRIPTION | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \ \delta_{\overline{A}} | | / 5 | 7, | \ 0 | 121 | / + ' | PRICE |
| | 30389251 | RT LTS 250µL X 768A/8 | 200 μL² | 8 | 768 | | | | | √ | \$ 127.60 |
| | 30389252 | RT LTS 250µL SX 768A/8 | 200 μL² | 8 | 768 | ✓ | | | | ✓ | 136.80 |
| | 30389242 | RT LTS 200µL FX 768A/8 | 200 μL² | 8 | 768 | ✓ | | | ✓ | ✓ | 213.00 |
| | 30389222 | RT LTS 1000µL X 768A/8 | 1000 μL | 8 | 768 | | | | | ✓ | 127.60 |
| | 30389224 | RT LTS 1000µL SX 768A/8 | 1000 μL | 8 | 768 | ✓ | | | | ✓ | 136.80 |
| | 30389223 | RT LTS 1000µL FX 768A/8 | 1000 μL | 8 | 768 | ✓ | | | ✓ | ✓ | 213.00 |
| sd | 30389247 | RT LTS 250µL W 960A/10 | 200 µL² | 10 | 960 | | ✓ | | | | \$ 93.40 |
| Racked Tips | 30389248 | RT LTS 250µL LW 960A/10 | 200 μL² | 10 | 960 | | ✓ | √ | | | 101.20 |
| ske | 30389249 | RT LTS 250µL SW 960A/10 | 200 μL² | 10 | 960 | √ | √ | | | | 110.40 |
| 2 | 30389250 | RT LTS 250µL LSW 960A/10 | 200 μL² | 10 | 960 | √ | ✓ | √ | | | 135.80 |
| | 30389241 | RT LTS 200µL FLW 960A/10 | 200 μL | 10 | 960 | √ | √ | √ | √ | | 169.20 |
| | 30389217 | RT LTS 1000µL W 768A/8 | 1000 μL | 8 | 768 | | √ | | | | 93.40 |
| | 30389219 | RT LTS 1000µL LW 768A/8 | 1000 μL | 8 | 768 | | √ | √ | | | 101.20 |
| | 30389220 | RT LTS 1000µL SW 768A/8 | 1000 μL | 8 | 768 | ✓ | √ | | | | 110.40 |
| | 30389221 | RT LTS 1000µL LSW 768A/8 | 1000 μL | 8 | 768 | √ | √ | √ | | | 135.80 |
| | 30389218 | RT LTS 1000µL FLW 768A/8 | 1000 μL | 8 | 768 | ✓ | ✓ | ✓ | ✓ | | 169.20 |

² Fits 50, 100 and 200 µL pipettes

| | | | V | OL | QTY | , | FE | ATURES | 3 | | |
|-------------|-------------|--------------------------|------------|------|-------------|----------|----------|----------|---------|--------|----------|
| UN | | | May VOLUM. | ACK. | 710S/CARTON | STEP. | HAF. | WIDE | 0., MO) | FILTER | <u> </u> |
| | CATALOG No. | DESCRIPTION | 4 | / & | / ~ / | \ \cdots | \ &. | ~ ~ | / 🍑 | / 4 | PRICE |
| | 30389174 | RT UNV 10µL G 960A/10 | 10 µL | 10 | 960 | | ✓ | | | | \$ 77.80 |
| | 30389178 | RT UNV 10µL GS 960A/10 | 10 µL | 10 | 960 | ✓ | ✓ | | | | 101.20 |
| Tips | 30389175 | RT UNV 10µL FG 960A/10 | 10 μL | 10 | 960 | ✓ | ✓ | | | ✓ | 155.80 |
| | | RT UNV 250µL W 960A/10 | 250 µL | 10 | 960 | | | ✓ | | | 85.40 |
| Racked | 30389196 | RT UNV 250µL LW 960A/10 | 250 μL | 10 | 960 | | | ✓ | ✓ | | 101.20 |
| | 30389197 | RT UNV 250µL LSW 960A/10 | 250 μL | 10 | 960 | ✓ | | ✓ | ✓ | | 135.80 |
| | 30389188 | RT UNV 200µL FLW 960A/10 | 250 μL | 10 | 960 | ✓ | | ✓ | ✓ | ✓ | 169.20 |
| <u> </u> | 17001127 | RC UNV 250µL W 1000A/1 | 250 μL | | 1000 | | | √ | | | \$ 59.80 |
| Bulk | 17015068 | RC UNV 1000µL LW 1000A/1 | 1000 μL | | 1000 | | | ✓ | ✓ | | 75.20 |
| (() | 30389283* | GPS UNV 10µL G 960A/10 | 10 μL | 10 | 960 | | √ | | | | \$ 78.00 |
| Refills | 30389285* | GPS UNV 10µL GS 960A/10 | 10 µL | 10 | 960 | ✓ | ✓ | | | | 101.20 |
| ~ | 30389264 | GP UNV 10µL FG 960A/10 | 10 μL | 10 | 960 | ✓ | ✓ | | | ✓ | 155.80 |

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



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.





Tested and Certified Purity

- The industry's most comprehensive testing procedures.
- The only tips certified to be both proteinand 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.

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 | RNASE | ENDOTOXIN | PROTEIN | PROTEASE | ATP | PCR INHIBITORS |
|--------------------------|---------------|---------------|--------------------------------|---------------------------------|---------------|---------------|-------------|-------------------------------|--------------------------|
| Bio Clean Ultra ™ | < 0.32 pg | < 1 pg | ≤ 10 ⁻⁷ KU/µL | ≤ 10 ⁻⁹ KU/µL | ≤ 0.001 EU/mL | < 2 ng/sample | ≤ 500 ng/mL | < 2 x 10 ⁻¹² mg/μL | None detected |
| Brand — A | "Free of" | - | 10 ⁻⁵ KU/μL | 10 ⁻⁹ KU/µL | ≤ 0.05 EU/mL | - | _ | _ | _ |
| Brand — B | < 0.40 fg | - | - | < 8.6 fg | < 1 pg | - | _ | < 1 fg | - |
| Brand – C | < 2 pg | < 50 fg | 10 ⁻⁴ KU | 10 ⁻⁹ KU | < 0.001 EU/mL | <1ng/μL | _ | < 5.5 x 10 ⁻¹² mg | < 10 targets amplifiable |
| Brand — D | None detected | - | None detected | None detected | < 0.06 EU/mL | - | _ | - | None detected |
| Brand — E | < 1 pg | - | "Free of" | "Free of" | < 0.05 EU/mL | _ | "Free of" | "ATP-free" | _ |
| Brand — F | "Free of" | "Free of" | "Free of" | "Free of" | "Free of" | - | "Free of" | "ATP-free" | "Free of" |
| Brand — G | _ | - | < 6.25 x 10 ⁻⁵ U/μL | < 3.125 x 10 ⁻⁹ U/μL | < 0.03 EU/mL | _ | _ | _ | _ |
| Brand — H | < 30 pg | - | <10x ⁻⁷ KU/µL | < 10 ⁻⁹ KU/μL | < 0.06 EU/mL | - | _ | - | _ |
| Brand — I | < 30 pg | _ | <10 ⁻⁷ KU/µL | < 10 ⁻⁹ KU/μL | ≤ 0.06 EU/mL | _ | _ | $< 10^{-13}$ mg/ μ L | None detected |
| Brand – J | "Free of" | "Free of" | "Free of" | "Free of" | "Free of" | - | - | - | - |

▶ mt.com/SR-BCU

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.

Flexible, Integrated and Easy to Implement

Pipette Management Simplified



| | CATALOG No. | DESCRIPTION | PRICE |
|--------------|-------------|-------------------------------|------------|
| | 30475913 | PipetteX - Site | \$1,625.00 |
| tteX | 30475915 | PipetteX - Unlimited | 6,091.00 |
| Pipe Soft | 30478260 | PipetteX - Site, Renewal | 1,625.00 |
| | 30478262 | PipetteX - Unlimited, Renewal | 6,091.00 |

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 | \$ 830.00 |
| | 17001255 | Universal Carousel Stand for seven pipettes | 165.60 |
| | 17003024 | Hang-Ups, magnetic, for three pipettes | 90.00 |
| | 17004992 | Shelf Hang-Ups for three pipettes | 90.00 |
| | 17006638 | Adapters for E4XLS with Hang-Ups, carousel | 44.80 |

Rainin SmartCheck

Verify the Accuracy of Any Pipette

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 benchtop 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 $10-1000~\mu L$. 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 | \$ 1,574.00 |
| | 30448961 | Function Test Kit | 515.00 |
| | 30448967 | EasyScan RFID LAN set | 1,459.00 |

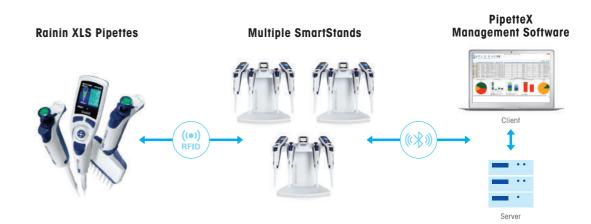
mt.com/SR-SC

Rainin PipetteX

Software to Simplify Pipette Management

PipetteX[™] uses the RFID tag embedded in every Rainin XLS pipette to automatically track and manage calibration data, pipette usage and location. Our simple software solution integrates with SmartStand, SmartCheck and Rainin Service to create a powerful, easy-to-use pipette tracking and calibration management system.

- 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
- Manage all brands of pipettes



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

Prices and specifications in this publication are subject to change without notice. Rainin Terms and Conditions of Sale apply to all orders. All orders will be shipped free by UPS Ground. Alternate delivery methods are available upon request – additional charges apply. Rainin trademarks: Rainin, GPP, Good Pipetting Practice, LTS, LiteTouch, Pipet-Lite, E4, XLS, XLS+, MicroPro, BenchSmart, Liquidator, Pipettek, NanoRep, No Touch Off, SmartCheck, BioClean, BioClean Ultra, BioClean Green-Pak, SpaceSaver, TerraRack, StableRak, EarthRack, ShaffGard, Rainin Classic, Pos-D, AutoRep, Disp-X, Hang-Ups. Multichannel All is a service marks of Mettler-Toledo Rainin, LLC. Eppendorf, Glison, Integra, Thermo Fisher and Sartorius are registered trademarks of their respective owners. Bluetooth is a registered trademark of Bluetooth SIG.

66 © 4/2024 Mettler-Toledo Rainin, LLC. RF-36cx-41924 | Printed in U.S.A.



Streamline your 96- and 384-well microplate work!

For more information on the new MicroPro, see page 24.

