

Technical specifications | NanoRep syringe tips

Tip Volume mL	Systematic Error			Min. Aliquot* µL	Min. Incr.** µL
	10%	50%	100%		
0.1	10 µL ± 1.6%	50 µL ± 0.9%	100 µL ± 0.9%	0.1	0.01
10	1 mL ± 0.4%	5 mL ± 0.4%	10 mL ± 0.3%	10	1
50	5 mL ± 0.25%	25 mL ± 0.25%	50 mL ± 0.25%	50	5

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

*Min. Aliquot = Smallest dispensable volume/tip.

**Min. Increment = Lowest incremental adjustment/tip.



Applications

- PCR
- ELISA
- NGS
- Flow cytometry
- Enzyme assays
- Cell-based assays
- Protein concentration
- Liquid chromatography
- Phage display
- Protein extraction
- DNA/ RNA extraction
- Protein concentration
- Sample prep
- Assay setup
- Reagent setup
- Kit productions
- Plasma prep
- Format transfer

Vessels

- Microcentrifuge tubes
- PCR strip tubes
- 6-, 24-, 48-, 96- and 384- well plates
- Culture flasks
- HPLC vials
- Cuvettes

Liquids

- Aqueous:** buffers, culture media
- Viscous:** glycerol, protein, antibodies, master mixes
- Volatile:** ethanol, methanol, acetonitrile
- Others:** acids, bases, DMSO, chloroform

Note: Additional applications, vessels and samples may work well with NanoRep. Examples listed are for illustrative purposes only.

Ordering Information

Product	Description	Material Number
NanoRep electronic repeater pipette	Electronic repeater pipette, charging cable, hang-up, 10 mL syringe tip	30568171
NanoRep syringe tip, 0.1 mL (100 µL) 100/1	1 pack of 100 tips	30575705
NanoRep syringe tip, 0.1 mL (100 µL) Sterile 25/1	1 pack of 25 tips, sterile	30575777
NanoRep syringe tip, 10 mL 100/1	1 pack of 100 tips	30575707
NanoRep syringe tip, 10 mL Sterile 25/1	1 pack of 25 tips, sterile	30575779
NanoRep syringe tip, 50 mL 25/1	1 pack of 25 tips	30575789
NanoRep syringe tip, 50 mL Sterile 25/1	1 pack of 25 tips, sterile	30575781
NanoRep stand	Pipette stand, non-charging	30575784
NanoRep charging cable	Charging cable	17012878
NanoRep 3 hang-up accessory	Rail Hang Up NanoRep RP	30584027

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www.mt.com/Rainin-NanoRep

For more information

Subject to technical changes
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Rainin MarCom

Specialty Pipettes

Exquisitely Precise Pipetting
No Touch Off Dispense



Dispense 100 Nanoliters

Dispense as little as 100 nL, the world's smallest aliquot from a handheld device. A positive-displacement system with adjustable speed, NanoRep capably handles any liquid – from aqueous and viscous to volatile or dense.



Avoid Contamination

No Touch Off™ dispense speeds workflows and reduces contamination risk by eliminating the need to touch the vessel wall after dispensing.



Simple Operation

The high-clarity color screen and intuitive joystick control make setting up protocols easy. Choose manual or automatic dispense, adjust aspiration and dispense speeds, and save protocols to repeat or edit later.



1,000 Aliquots per Tip

Three tip sizes cover a volume range of 100 nL – 50 mL and deliver up to 1,000 aliquots each. With fewer tip sizes and up to 10x more aliquots per tip than other repeaters, NanoRep allows researchers to work more efficiently while using less plastic.



Rainin NanoRep
Electronic Repeater Pipette

With the Rainin NanoRep, life science researchers can accurately repeat-dispense biological solutions even at nanoliter volumes, meeting the growing demand for assay optimization and miniaturization. NanoRep is a practical alternative to expensive benchtop systems, combining the versatility and value of a handheld repeater pipette with a unique non-contact dispense option that ensures repeatable accuracy and reduces the risk of cross-contamination.

METTLER TOLEDO

Accuracy and Performance

Dispense 100 nL to 50 mL with a Single Pipette

Insert a syringe tip into NanoRep and you're equipped to automatically dispense up to 1,000 aliquots – with no contact necessary from vessel to vessel. Experience Rainin quality in an ergonomic, durable repeater pipette.

Features

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

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

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



Effortless tip eject

Cushioned joystick to navigate and operate

Enjoy crisp readability and track progress visually on clear color screen

Finger hook allows a relaxed grip for greater comfort and control

Comfortable manual-dispensing with left or right side buttons, or joystick. NanoRep also dispenses automatically at adjustable timed intervals