



reddot design award
winner 2009

PhysioCare
concept

NEW!

Raise the limits

Eppendorf Research® plus

eppendorf

VWR 

A completely new experience

Eppendorf Research® plus

Eppendorf sets a new standard in pipetting. The ultra light Eppendorf Research plus pipette meets the highest needs in precision and accuracy—combined with ultimate ergonomics and increased flexibility.

It is a good feeling to know you are working with one of the most advanced pipettes in the world. A spring loaded tip cone, a secondary adjustment option, an improved volume display—and all that in an ultra light, fully autoclavable pipette: That is the new Eppendorf Research plus pipette.

Ergonomics: Feel the difference in weight, pipetting forces and the spring loaded tip cone.

Flexibility: Your next experiment will need new pipetting demands. Your new laboratory might have different sources of contamination. Your new pipette should offer all the flexibility you need. Adjust your Research plus to your needs, autoclave the entire pipette or only the lower part. Choose among single channel, multi channel and fix-volume pipettes in different sizes.

Robustness: Durability was tested thoroughly and has met our highest quality requirements. Made with space-age materials, resistance to chemical, thermal and mechanical stress is now continuously achieved!



An Eppendorf spin on ergonomics

PhysioCare Concept®

The Eppendorf PhysioCare Concept® stands for ultimate durability, perfect balance, intuitive operation and minimal user exertion. All this has been further optimized in the Eppendorf Research plus pipette.

The more strain you experience, the less energy you have. And because energy is a very precious and exhaustible resource, we try to use it as efficiently as possible. Thus, we have reduced the operating forces and the weight considerably.

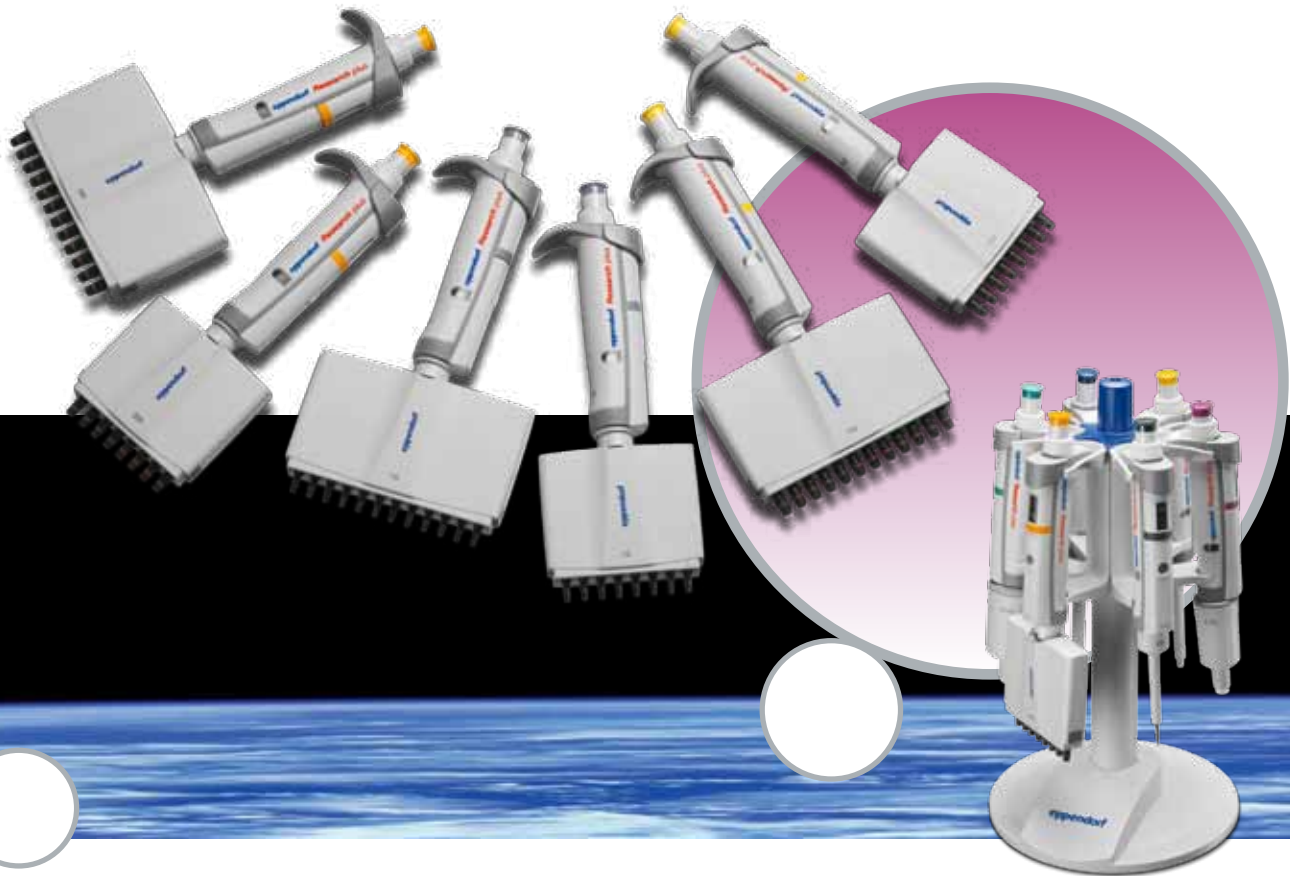


Patent pending.

- Take advantage of the high quality of the Eppendorf epT.I.P.S. (see page 10–11)

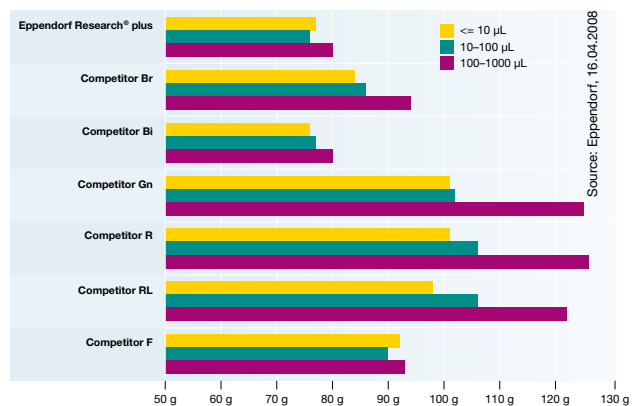
Defying gravity

NEW! Light weight design



An Eppendorf Research plus pipette is of extremely low weight!

This can only be achieved by using the most advanced materials and production processes, including the new Eppendorf PerfectPiston™ system, made of Fortron®. Fortron is an organic polymer with impressive characteristics. It is highly resistant to heat, acids and alkalies, mildew, bleaches, aging, sunlight and abrasion. It absorbs only small amounts of solvents and resists dyeing. This means your pipette is safe, robust and ultra light.



● See the low weight of the Research plus – no matter which size.

The future is in your hands

Don't waste energy!

Attachment force

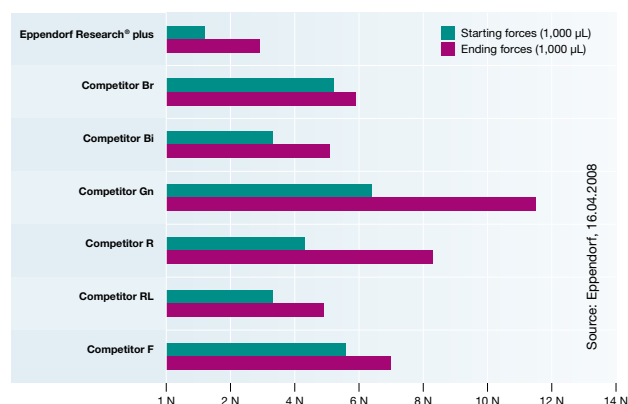
Achieve optimal tightness with minimal attachment forces with the Eppendorf Research plus. The spring loaded tip cone helps to reduce stress without sacrificing tightness. Just give it a try – you will love it!

Tip ejection forces

How many tips do you use per day? Even small differences in the tip ejection forces make a big change if you do it day by day. The tip ejection forces of the Eppendorf Research plus can be as low as only 3.6 N, depending on the size and the force you use to fix the tip.

Positioning of control elements

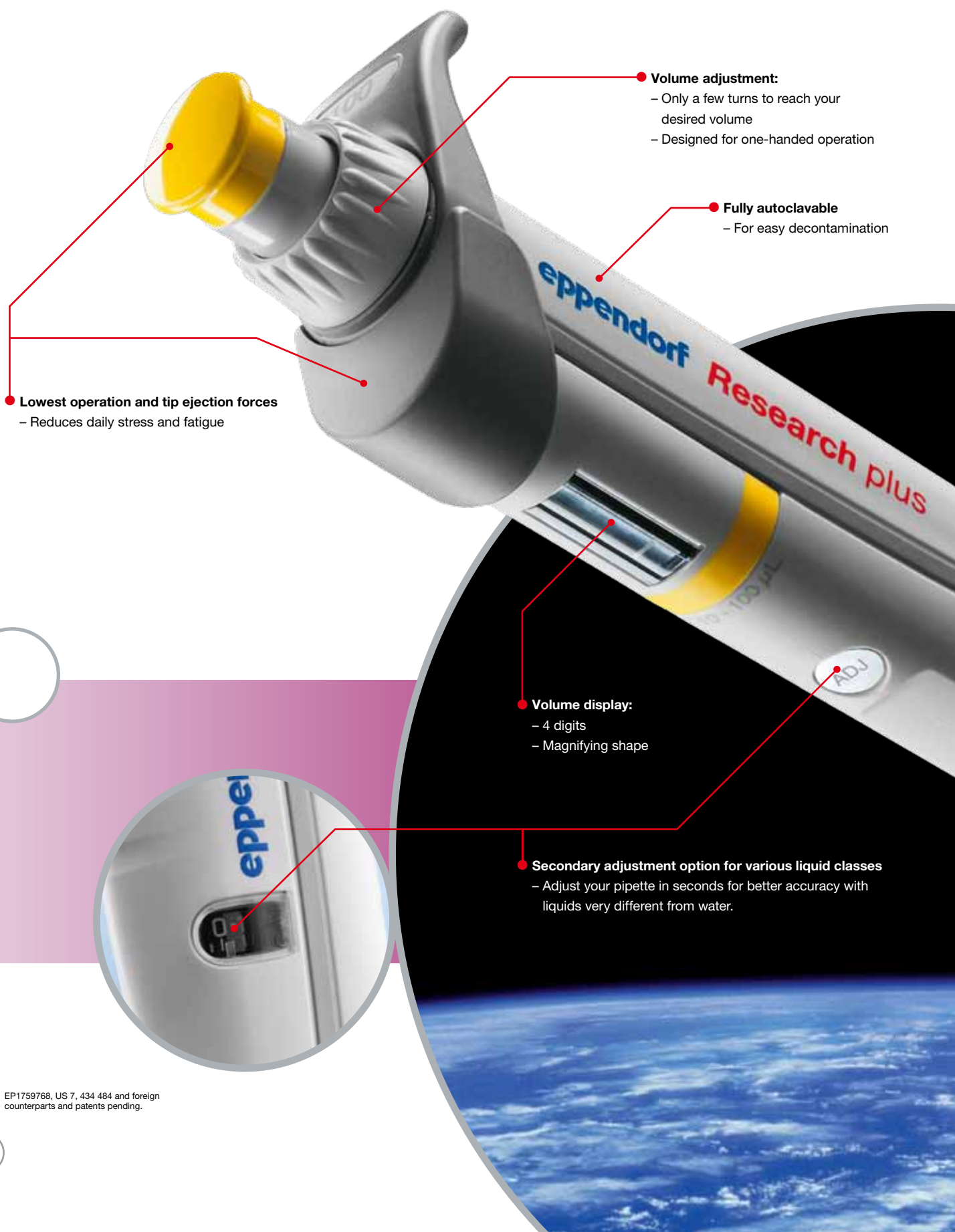
The positions and shapes of all control buttons and displays have been optimized again to ensure stress-free workflow and intuitive usage. The volume adjustment wheel needs only a few turnarounds from maximum volume to minimum volume.



● Pipetting forces are optimized to reduce stress.



The perfect pipette



- **Lowest operation and tip ejection forces**
 - Reduces daily stress and fatigue

- **Volume adjustment:**
 - Only a few turns to reach your desired volume
 - Designed for one-handed operation

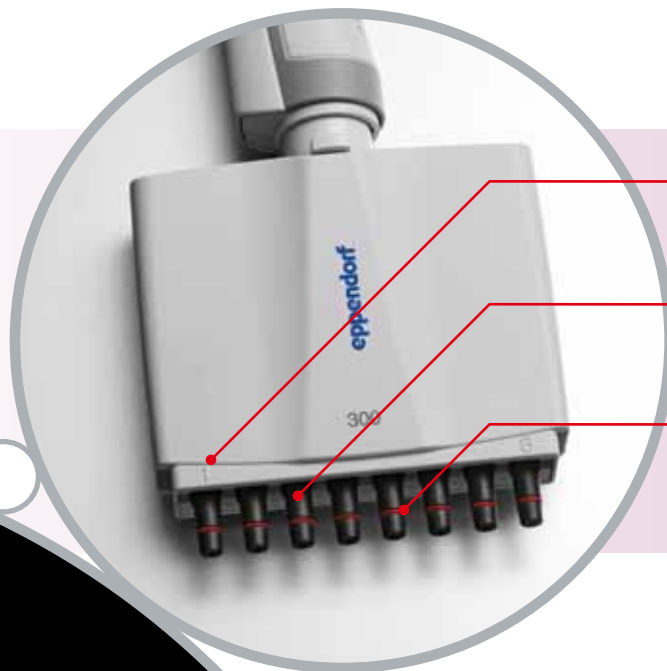
- **Fully autoclavable**
 - For easy decontamination

- **Volume display:**
 - 4 digits
 - Magnifying shape

- **Secondary adjustment option for various liquid classes**
 - Adjust your pipette in seconds for better accuracy with liquids very different from water.

EP1759768, US 7, 434 484 and foreign counterparts and patents pending.

High Quality in every detail



● **Channel indicator:**

- Use the pipette the same way round – all the time

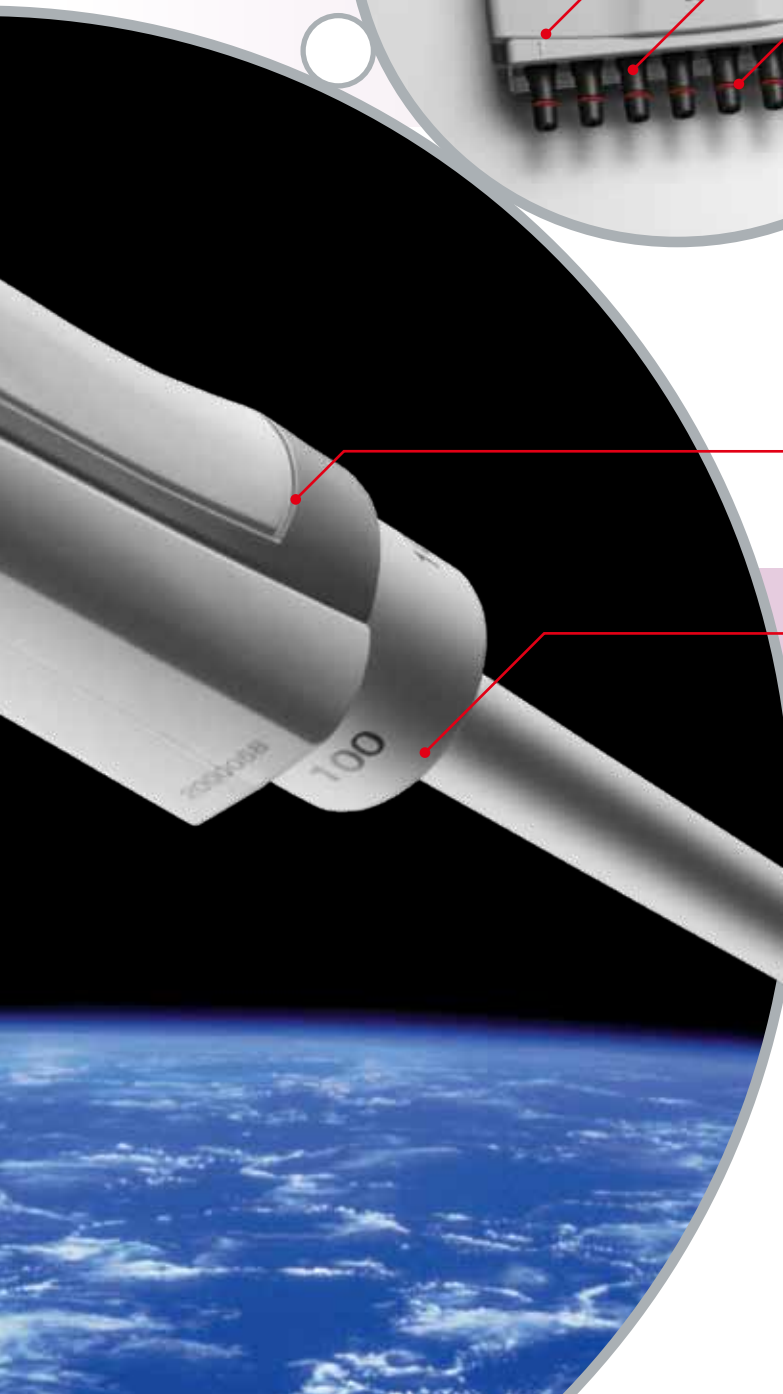
● **Remove any of the independent channels:**

- Gain flexibility for individual needs

● **Spring loaded tip cone:**

- Improved ergonomics
- Tight fit to the tip
- Independent suspension in each channel

Patent pending.



● **Ultra lightweight with space-age materials**

- Eppendorf PerfectPiston™ system made of Fortron®, chemically resistant for everyday use with aggressive solvents

● **Quick connection clip:**

- Remove lower part in just 2 steps!

● **Spring loaded tip cone**

- Improved ergonomics for consistent tip attachment and ejection
- Guarantees tight fit to the tip

Eppendorf Research® plus

Eppendorf Research® plus (adjustable)

Volume range	Volume	Systematic error		Random error		VWR Catalog No.
Control button anthracite for pipette tips 10 µL						
0.1–2.5 µL	0.1 µL	±48.0%	±0.048 µL	±12.0%	±0.012 µL	89125-292
	0.25 µL	±12.0%	±0.03 µL	±6.0%	±0.015 µL	
	1.25 µL	±2.5%	±0.031 µL	±1.5%	±0.019 µL	
	2.5 µL	±1.4%	±0.035 µL	±0.7%	±0.018 µL	
Control button grey for pipette tips 20 µL						
0.5–10 µL	0.5 µL	±8.0%	±0.04 µL	±5.0%	±0.025 µL	89125-294
	1 µL	±2.5%	±0.025 µL	±1.8%	±0.018 µL	
	5 µL	±1.5%	±0.075 µL	±0.8%	±0.04 µL	
	10 µL	±1.0%	±0.1 µL	±0.4%	±0.04 µL	
Control button light grey for pipette tips 20 µL L						
2–20 µL	2 µL	±5.0%	±0.1 µL	±1.5%	±0.03 µL	89125-296
	10 µL	±1.2%	±0.12 µL	±0.6%	±0.06 µL	
	20 µL	±1.0%	±0.2 µL	±0.3%	±0.06 µL	
Control button yellow for pipette tips 200 µL						
2–20 µL	2 µL	±5.0%	±0.1 µL	±1.5%	±0.03 µL	89125-298
	10 µL	±1.2%	±0.12 µL	±0.6%	±0.06 µL	
	20 µL	±1.0%	±0.2 µL	±0.3%	±0.06 µL	
10–100 µL	10 µL	±3.0%	±0.3 µL	±1.0%	±0.1 µL	89125-300
	50 µL	±1.0%	±0.5 µL	±0.3%	±0.15 µL	
	100 µL	±0.8%	±0.8 µL	±0.2%	±0.2 µL	
20–200 µL	20 µL	±2.5%	±0.5 µL	±0.7%	±0.14 µL	89125-302
	100 µL	±1.0%	±1.0 µL	±0.3%	±0.3 µL	
	200 µL	±0.6%	±1.2 µL	±0.2%	±0.4 µL	
Control button orange for pipette tips 300 µL						
30–300 µL	30 µL	±2.5%	±0.75 µL	±0.7%	±0.21 µL	89125-304
	150 µL	±1.0%	±1.5 µL	±0.3%	±0.45 µL	
	300 µL	±0.6%	±1.8 µL	±0.2%	±0.6 µL	
Control button blue for pipette tips 1,000 µL						
100–1,000 µL	100 µL	±3.0%	±3.0 µL	±0.6%	±0.6 µL	89125-306
	500 µL	±1.0%	±5.0 µL	±0.2%	±1.0 µL	
	1,000 µL	±0.6%	±6.0 µL	±0.2%	±2.0 µL	
Control button violet for pipette tips 5 mL						
0.5–5 mL	0.5 mL	±2.4%	±0.012 mL	±0.6%	±0.003 mL	89125-308
	2.5 mL	±1.2%	±0.03 mL	±0.25%	±0.006 mL	
	5 mL	±0.6%	±0.03 mL	±0.15%	±0.008 mL	
Control button turquoise for pipette tips 10 mL						
1–10 mL	1 mL	±3.0%	±0.03 mL	±0.6%	±0.006 mL	89125-310
	5 mL	±0.8%	±0.04 mL	±0.2%	±0.01 mL	
	10 mL	±0.6%	±0.06 mL	±0.15%	±0.015 mL	

Eppendorf Research® plus

Eppendorf Research® plus (adjustable, multichannel)

Volume range	Volume	Systematic error		Random error		VWR Catalog No.	
						8-channel	12-channel
Control button grey for pipette tips 20 µL							
0.5–10 µL	0.5 µL	±12.0%	±0.06 µL	±8.0%	±0.04 µL	89125-336	89125-342
	1 µL	±8.0%	±0.08 µL	±5.0%	±0.05 µL		
	5 µL	±4.0%	±0.2 µL	±2.0%	±0.1 µL		
	10 µL	±2.0%	±0.2 µL	±1.0%	±0.1 µL		
Control button yellow for pipette tips 200 µL							
10–100 µL	10 µL	±3.0%	±0.3 µL	±2.0%	±0.2 µL	89125-338	89125-344
	50 µL	±1.0%	±0.5 µL	±0.8%	±0.4 µL		
	100 µL	±0.8%	±0.8 µL	±0.3%	±0.3 µL		
Control button orange for pipette tips 300 µL							
30–300 µL	30 µL	±3.0%	±0.9 µL	±1.0%	±0.3 µL	89125-340	89125-346
	150 µL	±1.0%	±1.5 µL	±0.5%	±0.75 µL		
	300 µL	±0.6%	±1.8 µL	±0.3%	±0.9 µL		

Eppendorf Research® plus (fixed volume)

Volume	Systematic error		Random error		VWR Catalog No.
Control button grey for pipette tips 20 µL					
10 µL	±1.2%	±0.12 µL	±0.6%	±0.06 µL	89125-314
Control button light grey for pipette tips 20 µL L					
20 µL	±0.8%	±0.16 µL	±0.3%	±0.06 µL	89125-316
Control button yellow for pipette tips 200 µL					
10 µL	±1.2%	±0.12 µL	±0.6%	±0.06 µL	89125-312
20 µL	±1.0%	±0.2 µL	±0.3%	±0.06 µL	89125-318
25 µL	±1.0%	±0.25 µL	±0.3%	±0.08 µL	89125-320
50 µL	±0.7%	±0.35 µL	±0.3%	±0.15 µL	89125-322
100 µL	±0.6%	±0.6 µL	±0.2%	±0.2 µL	89125-324
200 µL	±0.6%	±1.2 µL	±0.2%	±0.4 µL	89125-326
Control button blue for pipette tips 1,000 µL					
200 µL	±0.6%	±1.2 µL	±0.2%	±0.4 µL	89125-328
250 µL	±0.6%	±1.5 µL	±0.2%	±0.5 µL	89125-330
500 µL	±0.6%	±3.0 µL	±0.2%	±1.0 µL	89125-332
1,000 µL	±0.6%	±6.0 µL	±0.2%	±2.0 µL	89125-334

Get Set for Success!

Pipette calibration and repair services

For over 60 years Eppendorf has been an innovator and leading provider of liquid handling systems, which include pipetting devices and consumables. This total approach philosophy extends beyond products to our quality pipette calibration, certification, maintenance and repair services—**for all major brands of pipettes**, not just our own. We offer a range of service options from basic calibration at an economical price to GLP/GMP custom-designed calibration services.

Your results depend on the integrity of your pipettes.

Trust in Eppendorf, your satisfaction is guaranteed!

We deliver on our promises and your peace of mind is our utmost concern. We approach **every pipette** as the instrument of your success. We know the pipette we service today will be needed for a breakthrough discovery or critical result. It has to be right. Attention to detail and exceptional quality and care highlight every plan we offer.

Speed. Accuracy. Reliability.

- Full flexibility—any mix to meet your needs
 - Our value plans to your custom protocols
 - One lab or global multinational service
 - On site and our state of the art facilities
- Full service consultation services
 - Technician training and seminars
 - Custom protocol development
 - Documentation management
 - PhysioCare® ergonomics and pipette clinics
- Fully equipped and trained calibration professionals
 - Complete on site calibration and repair available
 - Proprietary Eppendorf calibration software
 - Environmentally robust, semi-micro, NIST traceable balances
 - ISO 9001:2000 Registered



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