Eppendorf Research® plus

The Eppendorf Research plus combines over 50 years of innovation in liquid handling to provide you with one of the safest and most ergonomic pipettes available today. The Research plus is remarkably light, both in terms of weight and pipetting forces, setting new standards for ergonomic operation. It is comforting 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. The Research plus pipette will become an indispensable tool in your laboratory.

Product benefits

- > Ultra light mechanical pipette designed according to the strict criteria of the Eppendorf PhysioCare Concept
- > Very low weight and operating forces for advanced ergonomics to limit strain on your hand and arm
- > User adjustment option to offset inaccuracies when pipetting warm, cold, volatile or high density liquids and return to factory adjustment without calibration
- > One of the most commonly used pipettes in the world is available as a single channel pipette in fixed or variable volume as well as 8 and 12 channel pipette

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* The Research plus pipette is designed and constructed for low-contamination transfer of liquids, in particular for samples from the human body and for reagents within the scope of an in-vitro diagnostic application in order to allow the in-vitro diagnostic medical device to be used as intended. This pipette is an in-vitro diagnostic device according to Directive 98/79/EC of the European Parliament and the Council dated October 27, 1998. It is intended exclusively for indoor use and for operation by qualified staff.





reddot design award winner 2009

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

Low tip attachment force

Achieve optimal tightness and minimal attachment forces with the Eppendorf Research plus. The spring loaded tip cone helps to reduce stress without sacrificing tightness.

Low tip ejection force

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

High flexibility

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.

Secondary adjustment option for various liquid classes

Adjust your pipette in seconds for better accuracy when pipetting various difficult liquids like ethanol or even when pipetting at high altitudes.



Positioning of control elements

The positions and shapes of all control buttons and displays have been optimized to ensure stress-free workflow and intuitive usage.



Eppendorf Research® plus

Volume range	Color code	Volume	Systematic error*2		Random error*2		Order no.
0.1–2.5 μL	dark gray	0.1 μL	±48.0%	±0.048 μL	±12.0%	±0.012 μL	3120 000.011
	(for epT.I.P.S. [®] 10 μL)	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	
0.5–10 μL	medium gray	0.5 μL	±8.0%	±0.04 μL	±5.0%	±0.025 μL	3120 000.020
	(for epT.I.P.S. [®] 20 μL)	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	
2–20 μL	light gray	2 μL	±5.0%	±0.1 μL	±1.5%	 ±0.03 μL	3120 000.097
	(for epT.I.P.S. [®] 20 μL L)	10 μL	±1.2%	±0.12 μL	±0.6%	 ±0.06 μL	
		20 μL	±1.0%	±0.2 μL	±0.3%	 ±0.06 μL	
2–20 μL	yellow	2 μL	±5.0%	±0.1 μL	±1.5%	 ±0.03 μL	3120 000.038
	(for epT.I.P.S. [®] 200 µL)	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	3120 000.046
		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	3120 000.054
		100 μL	±1.0%	±1.0 μL	±0.3%	±0.3 μL	
		200 μL	±0.6%	±1.2 μL	±0.2%	±0.4 μL	
30–300 μL	orange (for epT.I.P.S. [®] 300 μL)	30 μL	±2.5%	±0.75 μL	±0.7%	±0.21 μL	3120 000.100
		150 μL	±1.0%	±1.5 μL	±0.3%	±0.45 μL	
		300 μL	±0.6%	±1.8 μL	±0.2%	±0.6 μL	
100–1,000 μL	blue (for epT.I.P.S. [®] 1,000 μL)	100 μL	±3.0%	±3.0 μL	±0.6%	±0.6 μL	3120 000.062
		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	
0.5–5 mL	purple (for epT.I.P.S. [®] 5 mL)	0.5 mL	±2.4%	±0.012 mL	±0.6%	±0.003 mL	3120 000.070
		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	
1–10 mL	turquoise (for epT.I.P.S.® 10 mL)	1 mL	±3.0%	±0.03 mL	±0.6%	±0.006 mL	3120 000.089
		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 (single-channel, variable volume)*¹

*1 Eppendorf Research® plus single-channel variable volume pipettes up to 1,000 μL include an epT.I.P.S.® box. The 5 mL and 10 mL versions include an epT.I.P.S.® sample bag.
*2 The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Eppendorf Research® plus

Eppendorf Research[®] plus (multichannel, variable volume)*¹

Volume range	Color code	Volume	Systemat	tic error*2	Random error* ²		Order no. 8-channel	Order no. 12-channel
0.5–10 μL	medium gray	0.5 μL	±12.0%	±0.06 μL	±8.0%	±0.04 μL	3122 000.019	3122 000.027
	(for epT.I.P.S.® 20 μL)	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		
10–100 μL	yellow (for epT.I.P.S. [®] 200 μL)	10 μL	±3.0%	±0.3 μL	±2.0%	±0.2 μL	3122 000.035	3122 000.043
		50 μL	±1.0%	±0.5 μL	±0.8%	±0.4 μL		
		100 μL	±0.8%	±0.8 μL	±0.3%	±0.3 μL		
30–300 μL	orange (for epT.I.P.S. [®] 300 μL)	30 μL	±3.0%	±0.9 μL	±1.0%	±0.3 μL	3122 000.051	3122 000.060
		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 (single-channel, fixed volume)

Volume	Color code	Sys	tematic error*2	Ra	Random error* ²	
10 μL	medium gray (for epT.I.P.S. [®] 20 μL)	±1.2%	±0.12 μL	±0.6%	±0.06 μL	3121 000.015
20 μL	light gray (for epT.I.P.S. [®] 20 μL L)	±0.8%	±0.16 μL	±0.3%	±0.06 μL	3121 000.031
10 μL	yellow	±1.2%	±0.12 μL	±0.6%	±0.06 μL	3121 000.023
20 μL	(for epT.I.P.S. [®] 200 μL)	±1.0%	±0.2 μL	±0.3%	±0.06 μL	3121 000.040
25 μL		±1.0%	±0.25 μL	±0.3%	±0.08 μL	3121 000.058
50 μL		±0.7%	±0.35 μL	±0.3%	±0.15 μL	3121 000.066
100 μL		±0.6%	±0.6 μL	±0.2%	±0.2 μL	3121 000.074
200 μL		±0.6%	±1.2 μL	±0.2%	±0.4 μL	3121 000.082
200 μL	blue	±0.6%	±1.2 μL	±0.2%	±0.4 μL	3121 000.090
250 μL	(for epT.I.P.S.® 1,000 μL)	±0.6%	±1.5 μL	±0.2%	±0.5 μL	3121 000.104
500 μL		±0.6%	±3.0 μL	±0.2%	±1.0 μL	3121 000.112
1000 μL		±0.6%	±6.0 μL	±0.2%	±2.0 μL	3121 000.120

*1 Eppendorf Research® plus multichannel variable volume pipettes include an epT.I.P.S.® box.
*2 The error data, according to EN ISO 8655, only apply if original Eppendorf tips are used. Technical specifications are subject to change. Errors and omissions excepted.

Accessories	Order no.
Tip-Tub reagent reservoir, autoclavable reservoir for aspirating liquids with multichannel pipettes,	0030 058.607
1 set = 10 reservoirs and 10 lids	
Eppendorf TrackIT	3903 000.014

Eppendorf Research® plus 3-pack including epT.I.P.S.® box and Eppendorf ballpoint pen	Order no.
Option 1: 0.5–10 μL, 10–100 μL, 100–1,000 μL	3120 000.909
Option 2: 2–20 μL yellow, 20–200 μL, 100–1,000 μL	3120 000.917
Option 3: 100–1,000 μL, 0.5–5 mL, 1–10 mL	3120 000.925

This pipette is an in-vitro diagnostic device according to Directive 98/79/EC of the European Parliament and the Council dated October 27, 1998.