

# Eppendorf Research® plus – Technical Datas

## Eppendorf Research® plus (adjustable)

Volume range	Dispensing button color	Volume*	Systematic error*		Random error*	
0.1–2.5 µL	■ dark gray (for epT.I.P.S.® 10 µL)	0.1 µL	±48.0%	±0.048 µL	±12.0%	±0.012 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 (for epT.I.P.S.® 20 µL)	0.5 µL	±8.0%	±0.04 µL	±5.0%	±0.025 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 (for epT.I.P.S.® 20 µL L)	2 µL	±5.0%	±0.1 µL	±1.5%	±0.03 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
2–20 µL	■ yellow (for epT.I.P.S.® 200 µL)	2 µL	±5.0%	±0.1 µL	±1.5%	±0.03 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
		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
		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
		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
		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
		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
		5 mL	±0.8%	±0.04 mL	±0.2%	±0.01 mL
		10 mL	±0.6%	±0.06 mL	±0.15%	±0.015 mL

\*The data for systematic and random errors only applies when using Eppendorf epT.I.P.S.® pipette tips.

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# Eppendorf Research® plus – Technical Datas

## Eppendorf Research® plus (adjustable, multi-channel)

Volume range	Dispensing button color	Volume	Systematic error		Random error	
0.5–10 µL	■ medium gray (for epT.I.P.S.® 20 µL)	0.5 µL	±12.0%	±0.06 µL	±8.0%	±0.04 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
		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
		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	Dispensing button color	Systematic error*		Random error*	
10 µL	■ medium gray (for epT.I.P.S.® 20 µL)	±1.2%	±0.12 µL	±0.6%	±0.06 µL
20 µL		±0.8%	±0.16 µL	±0.3%	±0.06 µL
10 µL	■ yellow (for epT.I.P.S.® 200 µL)	±1.2%	±0.12 µL	±0.6%	±0.06 µL
20 µL		±1.0%	±0.2 µL	±0.3%	±0.06 µL
25 µL		±1.0%	±0.25 µL	±0.3%	±0.08 µL
50 µL		±0.7%	±0.35 µL	±0.3%	±0.15 µL
100 µL		±0.6%	±0.6 µL	±0.2%	±0.2 µL
200 µL	■ blue (for epT.I.P.S.® 1000 µL)	±0.6%	±1.2 µL	±0.2%	±0.4 µL
200 µL		±0.6%	±1.2 µL	±0.2%	±0.4 µL
250 µL		±0.6%	±1.5 µL	±0.2%	±0.5 µL
500 µL		±0.6%	±3.0 µL	±0.2%	±1.0 µL
1000 µL		±0.6%	±6.0 µL	±0.2%	±2.0 µL

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