

Eppendorf Research® plus – Technical Data

Single-channel pipettes

Eppendorf Research® plus, single-channel, fixed

Volume range	Dispensing button color	Systematic error ¹⁾		Random error ¹⁾	
10 µL	medium gray (for epT.I.P.S.® 20 µL)	±1.2 %	±0.12 µL	±0.6 %	±0.06 µL
20 µL	light gray (for epT.I.P.S.® 20 µL L)	±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		±0.6 %	±1.2 µL	±0.2 %	±0.4 µL
200 µL	blue (for epT.I.P.S.® 1,000 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
1,000 µL		±0.6 %	±6.0 µL	±0.2 %	±2.0 µL

¹⁾ 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, single-channel, variable, incl. epT.I.P.S.® Box

Volume range	Dispensing button color	Volume	Systematic error ¹⁾		Random error ¹⁾	
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

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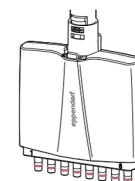
Eppendorf Research® plus – Technical Data

Eppendorf Research® plus, single-channel, variable, incl. epT.I.P.S.® sample bag

Volume range	Dispensing button color	Volume	Systematic error1)		Random error1)	
0.25 – 2.5 mL	red (for epT.I.P.S.® 2.5 mL)	0.25 mL	±4.8 %	±0.012 mL	±1.2 %	±0.003 mL
		1.25 mL	±0.8 %	±0.01 mL	±0.2 %	±0.0025 mL
		2.5 mL	±0.6 %	±0.015 mL	±0.2 %	±0.005 mL
0.5 – 5 mL	violet (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)	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

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8-channel pipettes, for 96 well plates



Eppendorf Research® plus, 8-channel, variable, incl. epT.I.P.S.® Box

Volume range	Dispensing button color	Volume	Systematic error1)		Random error1)	
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
120 – 1,200 µL	green (for epT.I.P.S.® 1.2 mL)	120 µL	±6.0 %	±7.2 µL	±0.9 %	±1.08 µL
		600 µL	±2.7 %	±16.2 µL	±0.4 %	±2.4 µL
		1,200 µL	±1.2 %	±14.4 µL	±0.3 %	±3.6 µL

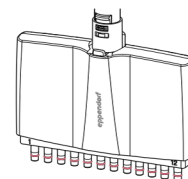
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Eppendorf Research® plus – Technical Data

12-channel pipettes, for 96 well plates

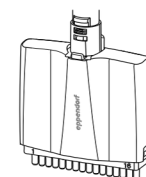


Eppendorf Research® plus, 12-channel, variable, incl. epT.I.P.S.® Box

Volume range	Dispensing button color	Volume	Systematic error ¹⁾		Random error ¹⁾	
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
120 – 1,200 µL	green (for epT.I.P.S.® 1.2 mL)	120 µL	±6.0 %	±7.2 µL	±0.9 %	±1.08 µL
		600 µL	±2.7 %	±16.2 µL	±0.4 %	±2.4 µL
		1,200 µL	±1.2 %	±14.4 µL	±0.3 %	±3.6 µL

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16-channel pipettes, for 384-well plates



Eppendorf Research® plus, 16-channel, variable, incl. epT.I.P.S.® Box

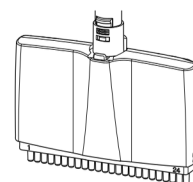
Volume range	Dispensing button color	Volume	Systematic error ¹⁾		Random error ¹⁾	
1 – 20 µL	light pink (for epT.I.P.S.® 384, 20 µL)	2 µL	±10 %	±0.2 µL	±3 %	±0.06 µL
		10 µL	±2.4 %	±0.24 µL	±1.2 %	±0.12 µL
		20 µL	±2 %	±0.4 µL	±0.6 %	±0.12 µL
5 – 100 µL	light yellow (for epT.I.P.S.® 384, 100 µL)	10 µL	±3 %	±0.3 µL	±2 %	±0.2 µL
		50 µL	±1.2 %	±0.6 µL	±1 %	±0.5 µL
		100 µL	±1 %	±1 µL	±0.6 %	±0.6 µL

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24-channel pipettes, for 384-well plates

Volume range	Dispensing button color	Volume	Systematic error1)		Random error1)	
Eppendorf Research® plus , 1 – 20 µL	24-channel, variable, incl. epT.I.P.S.®Box  light pink (for epT.I.P.S.® 384, 20 µL)	2 µL	±10 %	±0.2 µL	±3 %	±0.06 µL
		10 µL	±2.4 %	±0.24 µL	±1.2 %	±0.12 µL
		20 µL	±2 %	±0.4 µL	±0.6 %	±0.12 µL
 5 – 100 µL	  light yellow (for epT.I.P.S.® 384, 100 µL)	10 µL	±3 %	±0.3 µL	±2 %	±0.2 µL
		50 µL	±1.2 %	±0.6 µL	±1 %	±0.5 µL
		100 µL	±1 %	±1 µL	±0.6 %	±0.6 µL

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