

# Eppendorf Research® plus – Technical Data

## Single-channel pipettes

### Eppendorf Research® plus, single-channel, fixed

Volume range	Dispensing button color	Systematic error <sup>1)</sup>		Random error <sup>1)</sup>	
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	■ blue (for epT.I.P.S.® 1,000 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
1,000 µL		±0.6 %	±6.0 µL	±0.2 %	±2.0 µL

<sup>1)</sup> 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 <sup>1)</sup>		Random error <sup>1)</sup>	
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

<sup>1)</sup> 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.

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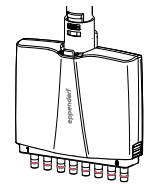
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# Eppendorf Research<sup>®</sup> plus – Technical Data

## Eppendorf Research<sup>®</sup> plus, single-channel, variable, incl. epT.I.P.S.<sup>®</sup> sample bag

Volume range	Dispensing button color	Volume	Systematic error <sup>1)</sup>		Random error <sup>1)</sup>	
0.25 – 2.5 mL	■ red (for epT.I.P.S. <sup>®</sup> 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. <sup>®</sup> 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. <sup>®</sup> 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

<sup>1)</sup> 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.



## 8-channel pipettes, for 96 well plates

### Eppendorf Research<sup>®</sup> plus, 8-channel, variable, incl. epT.I.P.S.<sup>®</sup> Box

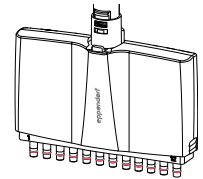
Volume range	Dispensing button color	Volume	Systematic error <sup>1)</sup>		Random error <sup>1)</sup>	
0.5 – 10 µL	■ medium gray (for epT.I.P.S. <sup>®</sup> 20 µL)	0.5 µL	±12.0 %	±0.06 µL	±8.0 %	±0.04 µL
		1 µL	±8.0 %	±0.08 µL	±5.0 %	±0.05 µL
		5 µL	±4.0 %	±0.2 µL	±2.0 %	±0.1 µL
		10 µL	±2.0 %	±0.2 µL	±1.0 %	±0.1 µL
10 – 100 µL	■ yellow (for epT.I.P.S. <sup>®</sup> 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. <sup>®</sup> 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. <sup>®</sup> 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<sup>®</sup> plus – Technical Data

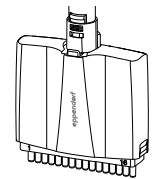


## 12-channel pipettes, for 96 well plates

**Eppendorf Research<sup>®</sup> plus**, 12-channel, variable, incl. epT.I.P.S.<sup>®</sup> Box

Volume range	Dispensing button color	Volume	Systematic error <sup>1)</sup>		Random error <sup>1)</sup>	
0.5 – 10 µL	■ medium gray (for epT.I.P.S. <sup>®</sup> 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. <sup>®</sup> 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. <sup>®</sup> 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. <sup>®</sup> 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

<sup>1)</sup> 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.



## 16-channel pipettes, for 384-well plates

**Eppendorf Research<sup>®</sup> plus**, 16-channel, variable, incl. epT.I.P.S.<sup>®</sup> Box

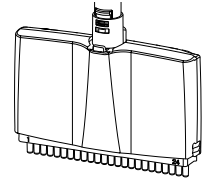
Volume range	Dispensing button color	Volume	Systematic error <sup>1)</sup>		Random error <sup>1)</sup>	
1 – 20 µL	■ light pink (for epT.I.P.S. <sup>®</sup> 384, 20 µL)	2 µL	±10 %	±0.2 µL	±3 %	±0.06 µL
		10 µL	±2.4 %	±0.24 µL	±1.2 %	±0.12 µL
		20 µL	±2 %	±0.4 µL	±0.6 %	±0.12 µL
5 – 100 µL	■ light yellow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

<sup>1)</sup> 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.

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# Eppendorf Research® plus – Technical Data



## 24-channel pipettes, for 384-well plates

Volume range	Dispensing button color	Volume	Systematic error <sup>1)</sup>		Random error <sup>1)</sup>	
<b>Eppendorf Research® plus</b> , 24-channel, variable, incl. epT.I.P.S.® Box						
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

<sup>1)</sup> 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.



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