

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 | ■ 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 |

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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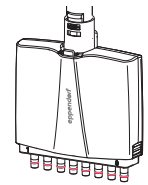
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Eppendorf Research® plus – Technical Specifications

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

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

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8-channel pipettes, for 96 well plates

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

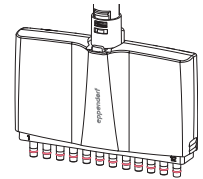
| Volume range | Dispensing button color | Volume | Systematic error ¹⁾ | | Random error ¹⁾ | |
|----------------|--|----------|--------------------------------|----------|----------------------------|----------|
| 0.5 – 10 µL | ■ medium gray (for epT.I.P.S.® 20 µL) | 0.5 µL | ±12.0 % | ±0.06 µL | ±8.0 % | ±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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Eppendorf Research® plus – Technical Specifications

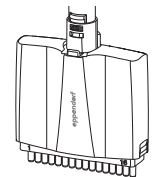


12-channel pipettes, for 96 well plates

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

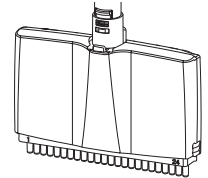
| Volume range | Dispensing button color | Volume | Systematic error ¹⁾ | | Random error ¹⁾ | |
|--------------|---|--------|--------------------------------|----------|----------------------------|----------|
| 1 – 20 µL | □ pearl white (for epT.I.P.S.® 384, 20 µL) | 2 µL | ±10 % | ±0.2 µL | ±3 % | ±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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Eppendorf Research[®] plus – Technical Specifications



24-channel pipettes, for 384-well plates

| Volume range | Dispensing button color | Volume | Systematic error ¹⁾ | | Random error ¹⁾ | |
|--|--|--------|--------------------------------|----------|----------------------------|----------|
| Eppendorf Research[®] plus , 24-channel, variable, incl. epT.I.P.S. [®] Box | | | | | | |
| 1 – 20 µL | <input type="checkbox"/> pearl white (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 | <input type="checkbox"/> 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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