

Pipette Performance Data Sheet



Eppendorf Research® plus Move It®

Do you frequently transfer samples across different vessel formats, such as between tubes and plates, and strive for more efficient and safe solutions? Eppendorf Research plus Move It adjustable tip spacing pipettes accelerate and simplify the synchronous pipetting of a series of samples. With a unique design that eliminates tubing connections, these pipettes offer increased precision, durability, as well as user and sample safety.

Features

- > 4-, 6-, 8- and 12-channel air-cushion pipettes with variable volume and adjustable tip spacing option
- > Tip spacing freely selectable from 4.5 to 33 mm, depending on pipette variant
- > Manual adjustment knob for smooth vibration-free format switches and liquid transfers without dripping
- > Format limiter for quick switches backwards and forwards between source and destination formats
- > Fully autoclavable for increased user and sample safety
- > Optimally balanced - reduces hand fatigue for stress-free operation
- > Also available as Eppendorf Xplorer® plus Move It electronic pipettes with adjustable tip spacing

Applications

- > Efficiency gains in all applications with frequent vessel format changes, i.a. ELISA, cell culture, PCR, genotyping, blood analysis, FACS analysis, media transfer, dilution series, screening
- > Forward pipetting
- > Reverse pipetting
- > Removal of supernatants
- > Sample mixing
- > Phase extraction

Technical Specifications

Intended use	Ergonomic multi-channel pipette with low operating forces designed for synchronous and quick pipetting between different vessels in general lab applications.
Pipetting type	Air-cushion pipette
Channel options	4, 6, 8, 12 with adjustable cone spacing
Volume range	1 µL – 1,200 µL
Volume increments	0.02 µL – 1 µL
Operation	> Mechanical, 4-digit volume display > Manual tip spacing adjustment
Autoclavable	Fully autoclavable (121 °C, 1 bar, 20 min)
UV resistance	Yes (254 nm)
Consumables	epT.I.P.S.® pipette tips
Open system (3rd party consumables)	Yes
Conforms with	ISO 8655
Temporary adjustment	Easy adjustment for liquid types, elongated tips or altitude
Storage accessories (sold separately)	> Pipette Carousel for 6 pipettes > Pipette Stand (with optional holder) > Pipette Holder for Carousel, Stand or wall mounting
Storage & transport conditions	> Temperature: -5 °C — 45 °C > Humidity: 10 % — 95 %
Operating conditions	> Temperature: 5 °C — 40 °C > Humidity: 10 % — 95 %
Others	> Designed according to the Eppendorf PhysioCare Concept®: lightweight, well-balanced, convenient handle > No tube connections between cone and piston-cylinder system for increased reliability and safety

Dimensions

Length	253 mm (8-channel, 100 µL)
Weight	254 g (8-channel, 100 µL)
Packaging (W x H x D)	32 cm x 16 cm x 12 cm
Shipping weight	531 g – 850 g (depending on model)

Measurement Deviations

Eppendorf Research® plus Move It®, adjustable multi-channel, variable volume, incl. epT.I.P.S.® Box 2.0 with 384 pipette tips

Volume range/channel	Color code	Volume	Systematic error ¹⁾		Random error ¹⁾	
1 – 20 µL 8/12-channel	■ light pink (for epT.I.P.S.® 384, 20 µL)	2 µL	±10.0 %	±0.2 µL	±5 %	±0.1 µL
		10 µL	±4 %	±0.4 µL	±2 %	±0.2 µL
		20 µL	±2 %	±0.4 µL	±1 %	±0.2 µL
5 – 100 µL 8/12-channel	■ 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	±0.8 %	±0.4 µL
		100 µL	±1 %	±1 µL	±0.6 %	±0.6 µL

Eppendorf Research® plus Move It®, adjustable multi-channel, variable volume, incl. epT.I.P.S.® Box 2.0 with 96 pipette tips

Volume range/channel	Color code	Volume	Systematic error ¹⁾		Random error ¹⁾	
30 – 300 µL 4/6/8-channel	■ orange (for epT.I.P.S.®, 300 µL)	30 µL	±3.7 %	±1.1 µL	±1.8 %	±0.5 µL
		150 µL	±1 %	±1.5 µL	±0.6 %	±0.9 µL
		300 µL	±0.7 %	±2.1 µL	±0.6 %	±1.8 µL

Eppendorf Research® plus Move It®, adjustable multi-channel, variable volume, without pipette tips

Volume range/channel	Color code	Volume	Systematic error ¹⁾		Random error ¹⁾	
120 – 1,200 µL 4/6/8-channel	■ dark green (for epT.I.P.S.®, 1,250 µL L)	120 µL	±6 %	±7.2 µL	±1.3 %	±1.6 µL
		600 µL	±2.7 %	±16.2 µL	±0.4 %	±2.4 µL
		1200 µL	±1.2 %	±14.4 µL	±0.3 %	±3.6 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.

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