

Combitips advanced® / Multipette® E3 / Multipette® E3x Technical Data

Eppendorf Combitips advanced®	Min. volume	Max. volume	Increment	Volume	Systematic error ¹⁾	Random error ¹⁾
0.1 mL	1 µL	100 µL	0.1 µL	1 µL	±11.0 %	±14.0 %
				10 µL	±1.6 %	±2.5 %
				50 µL	±1.0 %	±1.5 %
				100 µL	±1.0 %	±0.5 %
0.2 mL	2 µL	200 µL	0.2 µL	2 µL	±4.0 %	±5.5 %
				20 µL	±1.3 %	±1.5 %
				100 µL	±1.0 %	±1.0 %
				200 µL	±1.0 %	±0.5 %
0.5 mL	5 µL	500 µL	0.5 µL	5 µL	±3.0 %	±6.0 %
				50 µL	±0.9 %	±0.8 %
				250 µL	±0.9 %	±0.5 %
				500 µL	±0.9 %	±0.3 %
1 mL	10 µL	1 mL	1 µL	10 µL	±3.5 %	±7.0 %
				100 µL	±0.9 %	±0.55 %
				500 µL	±0.6 %	±0.30 %
				1.000 µL	±0.6 %	±0.20 %
2.5 mL	25 µL	2.5 mL	2.5 µL	25 µL	±2.0 %	±3.5 %
				250 µL	±0.8 %	±0.45 %
				1.250 µL	±0.5 %	±0.30 %
				2.500 µL	±0.5 %	±0.15 %
5 mL	50 µL	5 mL	5 µL	50 µL	±2.5 %	±6.0 %
				500 µL	±0.8 %	±0.35 %
				2.500 µL	±0.50 %	±0.25 %
				5.000 µL	±0.50 %	±0.15 %
10 mL	100 µL	10 mL	10 µL	100 µL	±1.5 %	±3.5 %
				1.000 µL	±0.5 %	±0.25 %
				5.000 µL	±0.4 %	±0.25 %
				10.000 µL	±0.4 %	±0.15 %
25 mL	250 µL	25 mL	25 µL	250 µL	±2.5 %	±3.0 %
				2.500 µL	±0.3 %	±0.35 %
				12.500 µL	±0.3 %	±0.25 %
				25.000 µL	±0.3 %	±0.15 %
50 mL	500 µL	50 mL	50 µL	500 µL	±2.0 %	±3.0 %
				5.000 µL	±0.3 %	±0.50 %
				25.000 µL	±0.3 %	±0.20 %
				50.000 µL	±0.3 %	±0.15 %

¹⁾ The data for systematic and random errors, according to EN ISO 8655, only apply if original Eppendorf Combitips advanced are used. Technical specification are subject to change. Errors and omissions excepted.

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Combitips advanced® / Multipette® M4 Technical Data

Eppendorf Combitips advanced®	Min. volume	Max. volume	Increment	Volume	Systematic error ¹⁾	Random error ¹⁾
0.1 mL	1 µL	20 µL	1 µL	1 µL	±8.0 %	±13.0 %
				2 µL	±1.6 %	±3.0 %
				10 µL	±1.2 %	±2.4 %
				20 µL	±1.0 %	±2.0 %
0.2 mL	2 µL	40 µL	2 µL	2 µL	±6.0 %	±8.0 %
				4 µL	±1.3 %	±2.0 %
				20 µL	±0.8 %	±1.5 %
				40 µL	±0.8 %	±1.5 %
0.5 mL	5 µL	100 µL	5 µL	5 µL	±4.0 %	±8.0 %
				10 µL	±0.9 %	±1.5 %
				50 µL	±0.8 %	±0.8 %
				100 µL	±0.8 %	±0.6 %
1 mL	10 µL	200 µL	10 µL	10 µL	±4.0 %	±8.0 %
				20 µL	±0.9 %	±0.9 %
				100 µL	±0.6 %	±0.6 %
				200 µL	±0.6 %	±0.4 %
2.5 mL	25 µL	500 µL	25 µL	25 µL	±4.0 %	±8.0 %
				50 µL	±0.8 %	±0.8 %
				250 µL	±0.6 %	±0.6 %
				500 µL	±0.5 %	±0.3 %
5 mL	50 µL	1.000 µL	50 µL	50 µL	±3.0 %	±5.0 %
				100 µL	±0.6 %	±0.6 %
				500 µL	±0.5 %	±0.5 %
				1.000 µL	±0.5 %	±0.25 %
10 mL	100 µL	2.000 µL	100 µL	100 µL	±3.0 %	±4.0 %
				200 µL	±0.5 %	±0.6 %
				1.000 µL	±0.5 %	±0.4 %
				2.000 µL	±0.5 %	±0.25 %
25 mL	250 µL	5.000 µL	250 µL	250 µL	±3.0 %	±3.0 %
				500 µL	±0.4 %	±0.6 %
				2.500 µL	±0.3 %	±0.5 %
				5.000 µL	±0.3 %	±0.25 %
50 mL	500 µL	10.000 µL	500 µL	500 µL	±6.0 %	±10.0 %
				1.000 µL	±0.3 %	±0.5 %
				5.000 µL	±0.3 %	±0.5 %
				10.000 µL	±0.3 %	±0.25 %

¹⁾ The data for systematic and random errors, according to EN ISO 8655, only apply if original Eppendorf Combitips advanced are used. Technical specification are subject to change. Errors and omissions excepted.

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