

Eppendorf Reference® 2 – Technical Datas

Description	Volume	Systematic error		Random error	
		± %	± mL	± %	± mL
Eppendorf Reference® 2, single-channel variable*					
0.1–2.5 µL ■ dark gray	0.25 µL	±12.0	±0.03	±6.0	±0.015
	1.25 µL	±2.5	±0.031	±1.5	±0.019
	2.5 µL	±1.4	±0.035	±0.7	±0.018
0.5–10 µL ■ medium gray	1 µL	±2.5	±0.025	±1.8	±0.018
	5 µL	±1.5	±0.075	±0.8	±0.04
	10 µL	±1.0	±0.10	±0.4	±0.04
2–20 µL ■ light gray	2 µL	±5.0	±0.10	±1.5	±0.03
	10 µL	±1.2	±0.12	±0.6	±0.06
	20 µL	±1.0	±0.20	±0.3	±0.06
2–20 µL ■ yellow	2 µL	±5.0	±0.12	±0.6	±0.06
	10 µL	±1.2	±0.12	±0.6	±0.06
	20 µL	±1.0	±0.2	±0.3	±0.06
10–100 µL ■ yellow	10 µL	±3.0	±0.3	±0.7	±0.07
	50 µL	±1.0	±0.5	±0.3	±0.15
	100 µL	±0.8	±0.8	±0.15	±0.15
20–200 µL ■ yellow	20 µL	±2.5	±0.5	±0.3	±0.06
	100 µL	±1.0	±1.0	±0.3	±0.3
	200 µL	±0.6	±1.2	±0.2	±0.4
30–300 µL ■ orange	30 µL	±2.5	±0.75	±0.7	±0.21
	150 µL	±1.0	±1.5	±0.3	±0.45
	300 µL	±0.6	±1.8	±0.2	±0.6
100–1000 µL ■ blue	100 µL	±3.0	±3.0	±0.6	±0.6
	500 µL	±1.0	±5.0	±0.2	±1.0
	1000 µL	±0.6	±6.0	±0.2	±2.0
	0.25–2.5 mL ■ red	0.25 mL	±8.0	±0.020	±3.0
0.5–5 mL ■ purple	1.25 mL	±0.8	±0.010	±0.2	±0.0025
	2.5 mL	±0.6	±0.015	±0.2	±0.005
	0.5 mL	±2.4	±0.012	±0.6	±0.003
	2.5 mL	±1.2	±0.030	±0.25	±0.006
	5.0 mL	±0.6	±0.030	±0.15	±0.0075
1–10 mL ■ turquoise	1.0 mL	±3.0	±0.030	±0.6	±0.006
	5.0 mL	±0.8	±0.040	±0.2	±0.010
	10.0 mL	±0.6	±0.060	±0.15	±0.015
Eppendorf Reference® 2, 8- and 12-channel variable					
0.5–10 µL ■ medium gray	0.5 µL	±12.0	±0.06	±8.0	±0.04
	1 µL	±8.0	±0.08	±5.0	±0.05
	5 µL	±4.0	±0.2	±2.0	±0.1
	10 µL	±2.0	±0.2	±1.0	±0.1
10–100 µL ■ yellow	10 µL	±3.0	±0.3	±2.0	±0.2
	50 µL	±1.0	±0.5	±0.8	±0.4
	100 µL	±0.8	±0.8	±0.3	±0.3
30–300 µL ■ orange	30 µL	±3.0	±0.9	±1.0	±0.3
	150 µL	±1.0	±1.5	±0.5	±0.75
	300 µL	±0.6	±1.8	±0.3	±0.9

* All Eppendorf Reference 2 single-channel adjustable-volume pipettes come with an epT.I.P.S. Box (except 2.5 mL, 5 mL and 10 mL)

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Eppendorf Reference® 2 – Technical Datas

Description	Color code	Systematic error		Random error	
		± %	± mL	± %	± mL
Eppendorf Reference® 2, single-channel fixed					
1 µL	■ dark gray	±2.5	±0.025	±1.8	±0.018
2 µL	■ dark gray	±2.0	±0.4	±1.2	±0.024
5 µL	■ medium gray	±1.5	±0.075	±0.8	±0.04
10 µL	■ medium gray	±1.0	±0.1	±0.5	±0.05
10 µL	■ yellow	±1.0	±0.1	±0.5	±0.05
20 µL	■ light gray	±0.8	±0.16	±0.3	±0.06
20 µL	■ yellow	±0.8	±0.16	±0.3	±0.06
25 µL	■ yellow	±0.8	±0.2	±0.3	±0.075
50 µL	■ yellow	±0.7	±0.35	±0.3	±0.15
100 µL	■ yellow	±0.6	±0.6	±0.2	±0.2
200 µL	■ yellow	±0.6	±1.2	±0.2	±0.4
200 µL	■ blue	±0.6	±1.2	±0.2	±0.4
250 µL	■ blue	±0.6	±1.5	±0.2	±0.5
500 µL	■ blue	±0.6	±3.0	±0.2	±1.0
1000 µL	■ blue	±0.6	±6.0	±0.2	±2.0
2 mL	■ red	±0.6	±0.012	±0.2	±0.004
2.5 mL	■ red	±0.6	±0.015	±0.2	±0.005

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