

Technical specifications Eppendorf Combitip® Plus

Multipette® 4780 / Repeater® Pipette, Model 4780

Combitip® Plus	Volume μL	Systematic error (Inaccuracy) %	Random error (Imprecision; CV) %
0.1 mL	2	± 1.6	≤ 5.0
	10	± 1.6	≤ 2.5
0.2 mL	4	± 1.3	≤ 3.0
	20	± 1.3	≤ 2.0
0.5 mL	10	± 1.0	≤ 1.5
	50	± 1.0	≤ 0.8
1.0 mL	20	± 0.9	≤ 0.9
	100	± 0.9	≤ 0.6
2.5 mL	50	± 0.8	≤ 0.8
	250	± 0.8	≤ 0.5
5.0 mL	100	± 0.6	≤ 0.6
	500	± 0.6	≤ 0.3
10 mL	200	± 0.5	≤ 0.6
	1 000	± 0.5	≤ 0.3
25 mL	500	± 0.4	≤ 0.6
	2 500	± 0.3	≤ 0.25
50 mL	1 000	± 0.3	≤ 0.5
	5 000	± 0.3	≤ 0.25

Multipette® plus 4980 and 4981 / Repeater® Plus Pipette, Model 4980 and 4981

Combitip® Plus	Volume μL	Systematic error (Inaccuracy) %	Random error (Imprecision; CV) %
0.1 mL	2	± 1.6	≤ 3.0
	20	± 1.0	≤ 2.0
0.2 mL	4	± 1.3	≤ 2.0
	40	± 0.8	≤ 1.5
0.5 mL	10	± 0.9	≤ 1.5
	100	± 0.8	≤ 0.6
1.0 mL	20	± 0.9	≤ 0.9
	200	± 0.6	≤ 0.4
2.5 mL	50	± 0.8	≤ 0.8
	500	± 0.5	≤ 0.3
5.0 mL	100	± 0.6	≤ 0.6
	1 000	± 0.5	≤ 0.25
10 mL	200	± 0.5	≤ 0.6
	2 000	± 0.5	≤ 0.25
25 mL*	500	± 0.4	≤ 0.6
	5 000	± 0.3	≤ 0.25
50 mL	1 000	± 0.3	≤ 0.5
	10 000	± 0.3	≤ 0.3

Eppendorf EDOS® 5222

Combitip® Plus	Volume μL	Systematic error (Inaccuracy) %	Random error (Imprecision; CV) %
0.1 mL	10	± 1.0	≤ 2.0
	100	± 1.0	≤ 0.5
0.2 mL	20	± 1.0	≤ 1.5
	200	± 1.0	≤ 0.5
0.5 mL	50	± 0.9	≤ 0.7
	500	± 0.9	≤ 0.3
1.0 mL	100	± 0.9	≤ 0.5
	1 000	± 0.5	≤ 0.2
2.5 mL	250	± 0.8	≤ 0.5
	2 500	± 0.5	≤ 0.2
5.0 mL	500	± 0.8	≤ 0.3
	5 000	± 0.5	≤ 0.15
10 mL	1 000	± 0.5	≤ 0.3
	10 000	± 0.5	≤ 0.15
25 mL	2 500	± 0.3	≤ 0.3
	25 000	± 0.3	≤ 0.15
50 mL	5 000	± 0.3	≤ 0.3
	50 000	± 0.3	≤ 0.15

Multipette® pro / Repeater® Pro Multipette® stream / Xstream Repeater® stream / Xstream

Combitip® Plus	Volume μL	Systematic error (Inaccuracy) %	Random error (Imprecision; CV) %
0.1 mL	10	± 1.6	≤ 2.5
	100	± 1.0	≤ 0.5
0.2 mL	20	± 1.3	≤ 1.5
	200	± 1.0	≤ 0.5
0.5 mL	50	± 0.9	≤ 0.8
	500	± 0.9	≤ 0.3
1.0 mL	100	± 0.9	≤ 0.55
	1 000	± 0.6	≤ 0.2
2.5 mL	250	± 0.8	≤ 0.45
	2 500	± 0.5	≤ 0.15
5.0 mL	500	± 0.8	≤ 0.35
	5 000	± 0.5	≤ 0.15
10 mL	1 000	± 0.5	≤ 0.25
	10 000	± 0.4	≤ 0.15
25 mL**	2 500	± 0.3	≤ 0.35
	25 000	± 0.3	≤ 0.15
50 mL	5 000	± 0.3	≤ 0.50
	50 000	± 0.3	≤ 0.15

Test conditions in accordance with DIN EN ISO 8655

Liquid: Distilled water, in accordance with DIN ISO 3696

Reference temperature: 20 – 25 °C, constant to ± 0.5 °C,

with Original Eppendorf Combitip Plus Tips

Technical specifications subject to change!

* 25 mL Combitip plus only applicable with 4981 (blue function keys)

**25 mL Combitip plus and Multipette® pro or Repeater® pro:

Model with blue function keys required

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