

Accuracy and Precision for the USA Scientific Repeating Pipette

Tip Size	Dispensing Volume		Systematic Error (Inaccuracy)		Random Error (Imprecision; CV)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
0.1 mL	2 μ L	10 μ L	\pm 1.6 %	\pm 1.6 %	\leq 5.0 %	\leq 2.5 %
0.5 mL	10 μ L	50 μ L	\pm 1.0 %	\pm 1.0 %	\leq 1.5 %	\leq 0.8 %
1.0 mL	20 μ L	100 μ L	\pm 0.9 %	\pm 0.9 %	\leq 0.9 %	\leq 0.6 %
2.5 mL	50 μ L	250 μ L	\pm 0.8 %	\pm 0.8 %	\leq 0.8 %	\leq 0.5 %
5.0 mL	100 μ L	500 μ L	\pm 0.6 %	\pm 0.6 %	\leq 0.6 %	\leq 0.3 %
10.0 mL	200 μ L	1000 μ L	\pm 0.5 %	\pm 0.5 %	\leq 0.6 %	\leq 0.3 %
25 mL	500 μ L	2500 μ L	\pm 0.4 %	\pm 0.4 %	\leq 0.6 %	\leq 0.25 %
50 mL	1000 μ L	5000 μ L	\pm 0.3 %	\pm 0.3 %	\leq 0.5 %	\leq 0.25 %

Test conditions in accordance with EN ISO 8655

Liquid: Water bi-distilled, degassed
Test Temperature: 20–25°C, \pm 0.5 % constant

Operating Temperature: +4°C +40 °C
Measurement: Performed with TipOne repeating pipette tips in accordance with EN ISO 8655

Technical specifications are subject to change without notice.