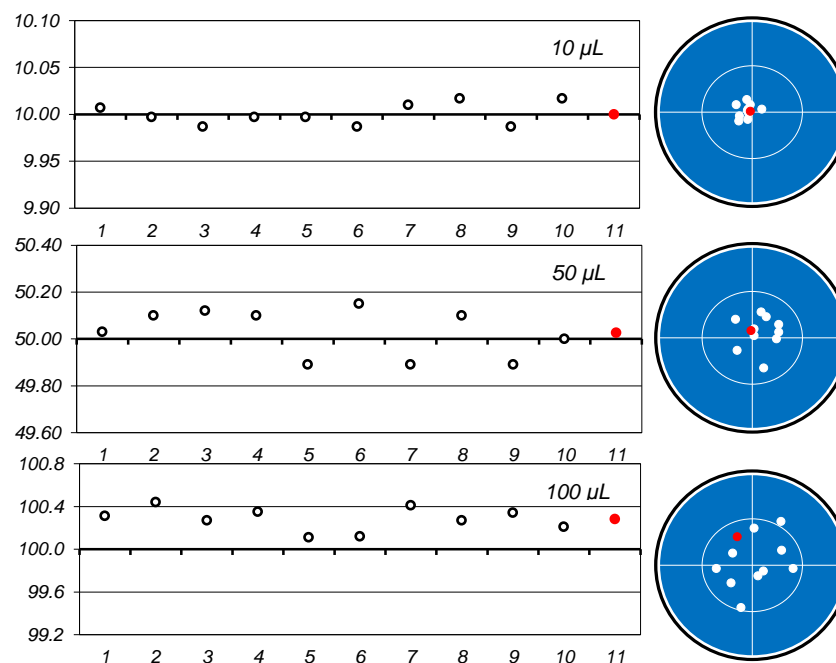


## Calibration Certificate

# PC10709

\* As required by AS ISO/IEC 17025-2005, all measurements in this report are traceable to the International System of Units (Système international d'unités)

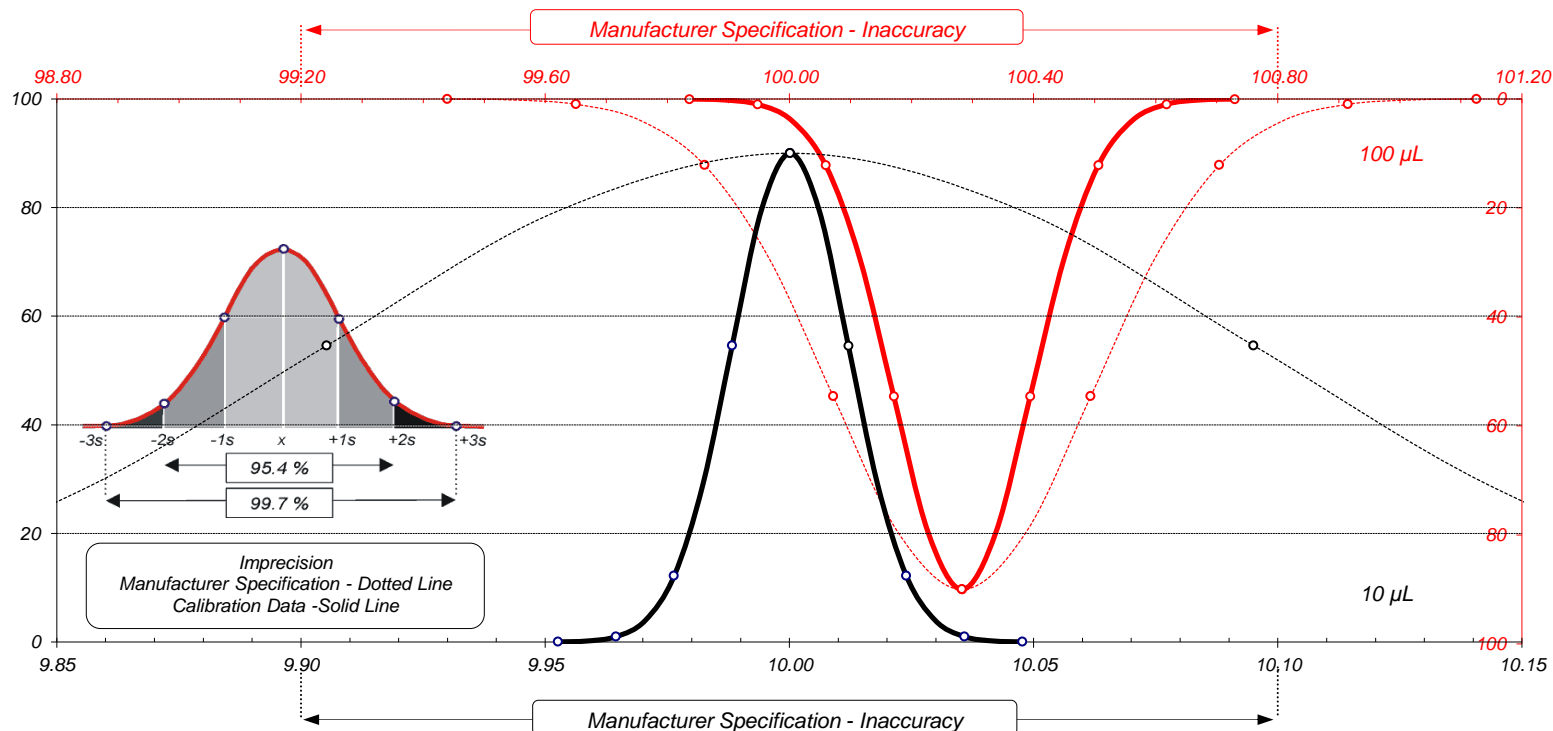
Measurement	Calibration Data		
	10 $\mu\text{L}$	50 $\mu\text{L}$	100 $\mu\text{L}$
1	10.01	50.03	100.31
2	10.00	50.10	100.44
3	9.99	50.12	100.27
4	10.00	50.10	100.35
5	10.00	49.89	100.11
6	9.99	50.15	100.12
7	10.01	49.89	100.41
8	10.02	50.10	100.27
9	9.99	49.89	100.34
10	10.02	50.00	100.21
11 Mean Volume ( $\mu\text{L}$ )	10.00	50.03	100.28
Inaccuracy ( % )	0.00	0.05	0.28
Specification ( $\pm$ % )	1.00	0.80	0.80
Status	PASS	PASS	PASS
Imprecision CV ( % )	0.12	0.21	0.11
Specification ( $\leq$ % )	1.00	0.50	0.20
Status	PASS	PASS	PASS
Uncertainty ( $\pm$ $\mu\text{L}$ )	0.05	0.23	0.26



Pipette Data		Laboratory Conditions	
Pipette Manufacturer :	Thermo Electron Corporation	Water Temperature ( $^{\circ}\text{C}$ )	21.1
Pipette Type :	Finnpipette Focus 4600	Air Pressure (hPa)	998
Volume Range :	100-1000 $\mu\text{L}$	Relative Humidity (%)	43
Serial Number :	AA86527	Density Correction ( $\mu\text{L}/\text{mg}$ )	1.0031
Customer ID:	BAL223	Calibrated with :	Sartorius ME235P auto door
Calibrated on :	1-Sep-2018	Calibrated by :	Mike Balac BSc (Hons) Chem

## Calibration Certificate

# PC10709



Customer Data		Uncertainty of Measurement	
In Use At:	Pipette Clinic Pty Ltd	Coverage factor at confidence level 95 %	k=2
	48-50 George Street	(Selected volume x)	Linearity ( µL )
	Parramatta NSW 2150	Accuracy ( µL )	y = 1.0031x -0.0312
		Accuracy + Uncertainty ( µL )	y1 = 1.0055x -0.0096
Test Method:	AS 2162.2-1998, ISO-8655	Uncertainty ( µL )	Ux = y1 - y