3/03/2020

ISO/IEC 17025:2005
Certificate No.: CC-2705

CALIBRATION REPORT STATUS : PASSED

DESCRIPTION : Variable Volume Pipette VV-1000(100-1000 µl)

DEVICE ID : 16411310 **CALIBRATION DATE :** 3/03/2020 5:04 PM

Method ID : VV/100-1000 **TERMINAL ID :** 20

ENVIRONMENTAL FACTORS

TEMP : 20.00 °C **Z FACTOR :** 1.0026 mm³/mg **BARO. PRESSURE :** 80.00 KPa **REL. HUMIDITY :** 60.00%

CALIBRATION STATISTICS

						Inaccuracy E%		Imprecision CV%		
Vol (µl)	No	Cum Wt (mg)	Vol (µl)	Mean (µl)	SD (µl)	Actual	Target	Actual	Target	Status
100.000	1	100.000	100.260	100.427	0.209	0.427	6.00	< 2.00	2.00	PASSED
	2	200.100	100.360							
	3	300.500	100.661							
500.000	1	498.300	499.596	499.429	0.474	0.114	1.20	< 0.40	0.40	PASSED
	2	996.800	499.796							
	3	1494.400	498.894							
1000.000	1	1000.100	1002.700	1002.433	0.306	0.243	0.60	< 0.20	0.20	PASSED
	2	2000.000	1002.500							
	3	2999.500	1002.099							

Incharge Q-C

Conforms To Standards Quality Control

Volume	Above 10 µl to 100 µl	Above 100 µl to 1000 µl	Above 1 ml to 10 ml	Above 10 ml to 100 ml	Based on data in the records.
Uncertainty (k=2)	0.1 µl	0.1 µl	0.1 µl	4 µl	

- Specifications conform to ISO:8655 standards.
- Each instrument is individually calibrated on electronic balance.
- 750 mmHg = 99.98 kPa.
- Weight in mg or g.
- Volume, Mean & S.D. in ml or µl.

Reference standard

The instrument is calibrated using a standard electronic balance with calibration traceability to NPL.

The reported expanded uncertainty of measurement is calculated by multiplying the standard uncertainty of measurement by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%.