



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

## CALIBRATION REPORT

**STATUS : PASSED**

**DESCRIPTION :** Variable Volume Pipette VV-1000(100-1000  $\mu$ l)

**DEVICE ID :** 16308020R1

**CALIBRATION DATE :** 10/08/2020 5:07 PM

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

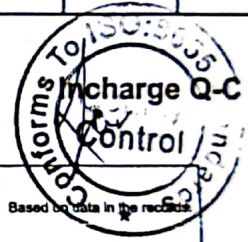
**TERMINAL ID :** 20

### ENVIRONMENTAL FACTORS

**TEMP :** 20.00 °C **Z FACTOR :** 1.0026 mm<sup>3</sup>/mg **BARO. PRESSURE :** 80.00 KPa, **REL. HUMIDITY :** 60.00%

### CALIBRATION STATISTICS

Vol ( $\mu$ l)	No	Cum Wt (mg)	Vol ( $\mu$ l)	Mean ( $\mu$ l)	SD ( $\mu$ l)	Inaccuracy E%		Imprecision CV%		Status
						Actual	Target	Actual	Target	
100.000	1	99.900	100.160	100.394	0.252	0.394	6.00	< 2.00	2.00	PASSED
	2	200.000	100.360							
	3	300.400	100.661							
500.000	1	498.700	499.997	500.799	0.757	0.160	1.20	< 0.40	0.40	PASSED
	2	998.900	501.501							
	3	1498.500	500.899							
1000.000	1	998.200	1000.795	1001.063	0.380	0.106	0.60	< 0.20	0.20	PASSED
	2	1997.100	1001.497							
	3	2995.400	1000.896							



Volume	Above 10 $\mu$ l to 100 $\mu$ l	Above 100 $\mu$ l to 1000 $\mu$ l	Above 1 ml to 10 ml	Above 10 ml to 100 ml
Uncertainty (k=2)	0.1 $\mu$ l	0.1 $\mu$ l	0.1 $\mu$ l	4 $\mu$ l

Based on data in the records

- 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  $\mu$ l.

#### 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%.