

CALIBRATION REPORT

STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 0.5-10 µl

DEVICE ID : 22305403

CALIBRATION DATE : 4/04/2023 10:22 AM

Method ID : VV/0.5-10µl

TERMINAL ID : 69

ULR No. : CC270522000148152F

Location : Lucknow (Permanent Lab)

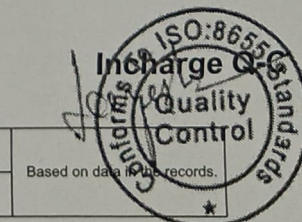
ENVIRONMENTAL FACTORS

TEMP : 25.00 °C Z FACTOR : 1.0026 mm³/mg BARO. PRESSURE : 80.00 KPa REL. HUMIDITY : 60.00%

CALIBRATION STATISTICS

Vol (µl)	No	Cum Wt (mg)	Vol (µl)	Mean (µl)	SD (µl)	Inaccuracy E%		Imprecision CV%		Status
						Actual	Target	Actual	Target	
2.000	1	2.100	2.105	2.005	0.100	0.250	5.00	< 2.50	2.50	PASSED
	2	4.000	1.905							
	3	6.000	2.005							
5.000	1	5.000	5.013	5.013	0.100	0.260	2.00	< 1.00	1.00	PASSED
	2	9.900	4.913							
	3	15.000	5.113							
10.000	1	10.000	10.026	10.059	0.058	0.593	1.00	< 0.50	0.50	PASSED
	2	20.100	10.126							
	3	30.100	10.026							

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
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%.

**CALIBRATION REPORT****STATUS : PASSED****DESCRIPTION :** Single Channel Micropipette 20-200 μ l**DEVICE ID :** 23211945**CALIBRATION DATE :** 7/06/2023 11:51 AM**Method ID :** VV/20-200**TERMINAL ID :** 69**ULR No. :** CC270523000201864F**Location :** Lucknow (Permanent Lab)**ENVIRONMENTAL FACTORS****TEMP :** 25.00 $^{\circ}$ C **Z FACTOR :** 1.0026 mm³/mg **BARO. PRESSURE :** 80.00 KPa **REL. HUMIDITY :** 60.00%**CALIBRATION STATISTICS**

Vol (μ l)	No	Cum Wt (mg)	Vol (μ l)	Mean (μ l)	SD (μ l)	Inaccuracy E%		Imprecision CV%		Status
						Actual	Target	Actual	Target	
20.000	1	21.000	21.055	21.122	0.115	5.608	6.00	< 2.00	2.00	PASSED
	2	42.000	21.055							
	3	63.200	21.255							
100.000	1	100.000	100.260	100.360	0.265	0.360	1.20	< 0.40	0.40	PASSED
	2	200.400	100.661							
	3	300.300	100.160							
200.000	1	199.400	199.918	199.451	0.405	0.275	0.60	< 0.20	0.20	PASSED
	2	398.100	199.217							
	3	596.800	199.217							

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



- * 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 μ 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%.