



CALIBRATION REPORT

STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 20-200 µl

DEVICE ID : 23205473

CALIBRATION DATE : 3/05/2023 11:29 AM

Method ID : VV/20-200

TERMINAL ID : 20

ULR No. : CC270523000196714F

Location : Lucknow (Permanent Lab)

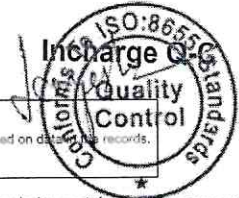
ENVIRONMENTAL FACTORS

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	
20.000	1	19.800	19.851	19.885	0.058	0.577	6.00	< 2.00	2.00	PASSED
	2	39.700	19.952							
	3	59.500	19.851							
100.000	1	99.300	99.558	99.592	0.252	0.408	1.20	< 0.40	0.40	PASSED
	2	198.900	99.859							
	3	298.000	99.358							
200.000	1	199.300	199.818	199.751	0.058	0.124	0.60	< 0.20	0.20	PASSED
	2	398.500	199.718							
	3	597.700	199.718							

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%.



ISO/IEC 17025:2017

Certificate No.: CC-1032

CALIBRATION REPORT**STATUS : PASSED****DESCRIPTION :** Single Channel Micropipette 100-1000 μ l**DEVICE ID :** 23216980**CALIBRATION DATE :** 24/07/2023 12:55 PM**Method ID :** VV/100-1000**TERMINAL ID :** 19**ULR No. :** CC270523000208947F**Location :** Lucknow (Permanent Lab)**ENVIRONMENTAL FACTORS****TEMP :** 25.00 $^{\circ}$ C **Z FACTOR :** 1.0038 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	
100.000	1	99.600	99.978	100.179	0.348	0.179	6.00	< 2.00	2.00	PASSED
	2	199.800	100.581							
	3	299.400	99.978							
500.000	1	498.500	500.394	499.524	0.760	0.095	1.20	< 0.40	0.40	PASSED
	2	995.800	499.190							
	3	1492.900	498.989							
1000.000	1	998.000	1001.792	1000.487	1.157	0.049	0.60	< 0.20	0.20	PASSED
	2	1994.300	1000.086							
	3	2990.100	999.584							

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%.



CALIBRATION REPORT

STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 2-20 μ l

DEVICE ID : 23214960

CALIBRATION DATE : 6/07/2023 11:58 AM

Method ID : VV/2-20

TERMINAL ID : 69

ULR No. : CC270523000206862F

Location : Lucknow (Permanent Lab)

ENVIRONMENTAL FACTORS

TEMP : 25.00 $^{\circ}$ C **Z FACTOR :** 1.0038 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	
2.000	1	2.000	2.008	2.008	0.000	0.400	8.00	< 4.00	4.00	PASSED
	2	4.000	2.008							
	3	6.000	2.008							
10.000	1	9.900	9.938	9.938	0.000	0.620	1.60	< 0.80	0.80	PASSED
	2	19.800	9.938							
	3	29.700	9.938							
20.000	1	19.900	19.976	20.009	0.058	0.047	0.80	< 0.40	0.40	PASSED
	2	39.900	20.076							
	3	59.800	19.976							

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%.