



ISO/IEC 17025:2017
Certificate No. CC-1032

Print Date: 19/07/2023

CALIBRATION REPORT

STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 100-1000 µl

DEVICE ID : 23217019

CALIBRATION DATE : 19/07/2023 9:43 AM

Method ID : WV/100-1000

TERMINAL ID : 20

ULR No. : CC270523000208539F

Location : Lucknow (Permanent Lab)

ENVIRONMENTAL FACTORS

TEMP : 25.00 °C Z FACTOR : 1.0038 mm³/mg BARO. PRESSURE : 80.00 KPa REL. HUMIDITY : 60.00%

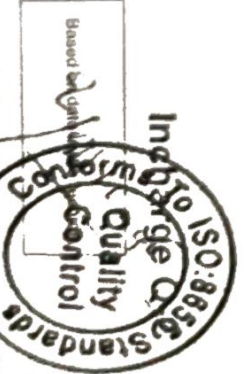
CALIBRATION STATISTICS

Vol (µl)	No	Cum Wt (mg)	Vol (µl)	Mean (µl)	SD (µl)	Inaccuracy E%		Imprecision CV%		Status
						Actual	Target	Actual	Target	
100.000	1	99.800	100.179	99.878	0.362	0.122	6.00	< 2.00	2.00	PASSED
	2	198.900	99.477							
	3	298.500	99.978							
500.000	1	498.400	500.294	499.826	0.418	0.035	1.20	< 0.40	0.40	PASSED
	2	996.200	499.692							
	3	1493.800	499.491							
1000.000	1	997.600	1001.391	1000.822	1.163	0.082	0.60	< 0.20	0.20	PASSED
	2	1995.400	1001.592							
	3	2991.100	999.484							

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

Reference standard

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



* Specifications conform to IS/9005, standards
 * Each test item is individually calibrated on electronic balance
 * U₉₅ (k=2) = 95% C.P.
 * Weight in mg/ml
 * Volume Meas. to 0.1 µl

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-2705

Print Date: 20/04/2023

CALIBRATION REPORT

STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 2-20 μ l

DEVICE ID : 23204359

CALIBRATION DATE : 20/04/2023 4:50 PM

Method ID : VV/2-20

TERMINAL ID : 69

ULR No. : CC270523000194658F

Location : Lucknow (Permanent Lab)

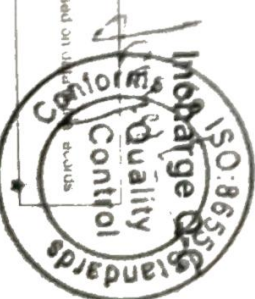
ENVIRONMENTAL FACTORS

TEMP : 25.00 $^{\circ}$ C Z FACTOR : 1.0026 mm³/mg BARO. PRESSURE : 80.00 KPa REL. HUMIDITY : 60.00%

CALIBRATION STATISTICS

Inaccuracy E% Imprecision CV%										
Vol (μ l)	No	Cum Wt (mg)	Vol (μ l)	Mean (μ l)	SD (μ l)	Actual	Target	Actual	Target	Status
2.000	1	2.100	2.105	2.038	0.058	1.917	8.00	< 4.00	4.00	PASSED
	2	4.100	2.005							
	3	6.100	2.005							
10.000	1	10.100	10.126	10.059	0.115	0.593	1.60	< 0.80	0.80	PASSED
	2	20.000	9.926							
	3	30.100	10.126							
20.000	1	19.900	19.952	20.052	0.100	0.260	0.30	< 0.40	0.40	PASSED
	2	40.000	20.152							
	3	60.000	20.052							

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%.



ISO/IEC 17025:2017
Certificate No.: CC-2705

Print Date: 18/08/2023

CALIBRATION REPORT

STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 20-200 µl

DEVICE ID : 23307520

CALIBRATION DATE : 18/08/2023 12:51 PM

Method ID : VV/20-200

TERMINAL ID : 52

ULR No. : CC270523000212325F

Location : Lucknow (Permanent Lab)

ENVIRONMENTAL FACTORS

TEMP : 25.00 °C Z FACTOR : 1.0038 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)	Actual	Target	Inaccuracy E%		Actual	Imprecision CV%		Status
								Actual	Target		Actual	Target	
20.000	1	20.100	20.176	20.176	0.101	0.882	6.00	< 2.00	2.00	PASSED			
	2	40.100	20.076										
	3	60.300	20.277										
100.000	1	99.500	99.878	99.912	0.153	0.088	1.20	< 0.40	0.40	PASSED			
	2	198.900	99.778										
	3	298.600	100.079										
200.000	1	198.900	199.656	199.656	0.402	0.172	0.60	< 0.20	0.20	PASSED			
	2	357.400	199.254										
	3	596.700	200.057										

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%.