

CALIBRATION REPORT STATUS : PASSED



ISO/IEC 17025:2017
Certificate No.: CC-4932

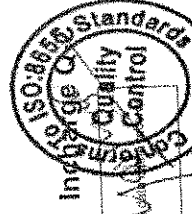
DESCRIPTION : Single Channel Micropipette 100-1000 µl
CALIBRATION DATE : 4/08/2023 11:02 AM
DEVICE ID : 23216976
TERMINAL ID : 20
Method ID : VV/100-1000
Location : Lucknow (Permanent Lab)
ULR No. : CC270523000210345F

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	100.300	100.681	100.480	0.201	0.480	6.00	< 2.00	2.00	PASSED
	2	200.400	100.480							
	3	300.300	100.280							
500.000	1	499.000	500.896	500.662	0.323	0.132	1.20	< 0.40	0.40	PASSED
	2	997.400	500.294							
	3	1496.300	500.796							
1000.000	1	1000.500	1004.302	1002.428	1.857	0.243	0.60	< 0.20	0.20	PASSED
	2	1999.100	1002.395							
	3	2995.900	1000.588							

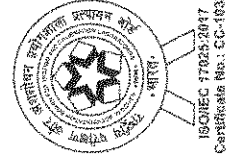


Volume	Above 10 µl to 100 µl	Above 100 µl to 1000 µl	Above 1 ml to 10 ml	Above 10 ml to 100 ml
Uncertainty (k=2)	0.1 µl	0.1 µl	0.1 µl	0 µl

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%.

- * 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.



19/01/EC-177025/2017
Certificate No.: CC-1032

Print Date: 4/08/2023

CALIBRATION REPORT STATUS : PASSED

DESCRIPTION : Single Channel Micropipette 100-1000 µl
DEVICE ID : 23305025 **CALIBRATION DATE :** 4/08/2023 10:49 AM
Method ID : VV/100-1000 **TERMINAL ID :** 20
ULR No. : CC270523000210338F **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%		Status	
						Actual	Target		
100.000	1	99.600	99.978	100.179	0.438	0.179	6.00	2.00	PASSED
	2	199.900	100.681						
	3	299.400	99.878						
500.000	1	498.400	500.294	499.190	1.019	0.162	1.20	0.40	PASSED
	2	995.500	498.989						
	3	1491.900	498.286						
1000.000	1	1001.400	1005.205	1004.068	1.154	0.407	0.60	0.20	PASSED
	2	2001.700	1004.101						
	3	3000.800	1002.897						



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 (Max)	0.1 µl	0.1 µl	0.1 µl	0.4 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%.

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

* Specifications conform to ISO 8555 standards.
 * Each instrument is individually calibrated on electronic balances.
 * 750 mmHg = 99.98 kPa.
 * Weight in mg or g.
 * Volume, Mean & S.D. in ml or µl.