



MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,
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NABL ACCREDITED LABORATORY
Certificate No. CC - 2545

CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.: MTL / NCH(M) / R03 / 12 - 22

ULR - CC254522000036721F

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1.0 Service Request No.: MTL / 19H / 12 / 22 - 23

1.1 Issued to: M/s. Nongpoh Civil Hospital,
ICTC Nongpoh,
Dist. - Ribhoi, Meghalaya, Pin. - 793102.

1.2 Description & Identification of item to be Calibrated:

a) Name:	Micro Pipette	b) Code No.:	PW / MACS / ICTCNGP / 2022 / M.PIPETTE / 02
c) Sl. No.:	N.S.	d) Make:	Micropet
e) Model / Type:	N.S.	f) Range:	10 µl to 100 µl
g) Sensor:	N.A.	h) Resolution:	1 µl
i) End User:	ICTC Lab	j) Accuracy:	N.S.
k) Calibration done at:	On Site / ✓ In House		

1.3 Date of receipt of item : 26-12-22

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 28-12-22

1.6 Recommended date of next calibration : 28-12-23

1.7 Date of Issue : 29-12-22

1.8 Environmental Conditions During Calibration:

Temperature:	23 °C ± 2 °C
Humidity:	50 % RH ± 10 % RH
Pressure:	1013.2 mbar

1.9 Method of Calibration: SOP / MASS / 02 (As Per ISO : 8655 - 6 : 2002)

2.0 Traceability :

- a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.
- b) The following standards / Equipment have been used.

- i) Digital Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 22 (MTL, Barrackpore) (Cal. Date: 16/09/22, Due Date: 16/09/23)
- ii) Weights Cal. Certificate No. NC-210 (NSTAR, Ahmedabad) (Cal. Date: 16/05/22, Due Date: 15/05/25)

2.1 Result :

Mechanical Calibration

Sl. No.	Parameter/ Range	Nominal Value µl	Mass of Water mg	Volume of Water at 20 °C µl	Error µl	Measurement Expanded Uncertainty ± µl
1.	Volume	10	10.1877	10.2285	0.2285	0.39
2.	10 µl to 100 µl	50	50.1457	50.3463	0.3463	
3.		100	100.0089	100.4089	0.4089	

Remarks: i) Cubical Expansion co-efficient of pipette material taken as 10⁻⁵ µl / °k.

- ii) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.
- iii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Opinions and Interpretations

Calibrated	✓	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer
Measure Techno Lab
Kolkata
S. Mahapatra
Calibration Engineer

S.M
29/12/22

Checked / Approved by:
KOLKATA
29/12/22
Quality & Technical Manager
S. Pandey