



MEASURE TECHNO LAB
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CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.: MTL / KSDH / R02 / 04 - 23 ULR - CC254523000008967F



L0 Service Request No.: MTL / 05 / 04 / 23 - 24

L1 Issued to:

HIV Testing Laboratory,
 ICTC Unit,
 Khargapur Sub Division Hospital,
 Khargapur, Paschim Medinipur,
 Pin - 721301.

L2 Description & Identification of item to be Calibrated:

- a) Name: Micro Pipette
- b) Code No.: KSDH / ICTC / MP - 01
- c) Sl. No.: N.S.
- d) Make: Micropet
- e) Model / Type: N.S.
- f) Range: 1000 µl (Fixed)
- g) Sensor: N.A.
- h) Resolution: N.A.
- i) End User: Laboratory
- j) Accuracy: N.S.

k) Calibration done at: On Site / In House

L3 Date of receipt of item : 04-04-23

L4 Physical Condition of DUC : OK

L5 Date of calibration : 05-04-23

L6 Recommended date of next calibration : 05-04-24

L8 Environmental Conditions During Calibration:

Temperature: 20 °C ± 2 °C
 Humidity: 30 % RH to 75 % RH
 Pressure: 1005.3 mbar

L9 Method of Calibration:

SOP / MASS / 02 (As Per ISO : 8655 - 6 : 2002)

L10 Traceability :

Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

The following standards / Equipment have been used.

- 1 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)
- 2 Weights Cal. Certificate No. NC-210 (NSTAR, Ahmedabad) (Cal. Date: 16/05/22, Due Date: 15/05/25)

L11 Result:

Mechanical Calibration

Sl. No.	Parameter/ Range	Nominal Value µl	Mass of Water mg	Volume of Water at 20 °C µl	Error µl	Expanded Measurement Uncertainty ± µl
1.	1000 µl (Fixed)	1000	1002.2865	1006.2956	6.2956	0.39

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

Options and Interpretations

Calibrated	<input checked="" type="checkbox"/>	Accepted / Valid for use
Limited Use	<input type="checkbox"/>	Rejected / Out of use

Calibration Engineer
 Measure Techno Lab
 Kolkata
 K. Barak

Checked / Approved by:

