

MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,

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CALIBRATION CERTIFICATE OF MICRO PIPETTE

IBRATION CERTIFICATE NO.:MTL / NRSMCH-ICTC(G) / R03 / 01 - 24

ULR - CC254524000004983F

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1.0 Service Request No.: MTL / 22A / 01 / 23 - 24

1.1 Issued to:

M/s. NRS MCH - ICTC (ANC), Department of Gynae & OBS,

Kolkata -700014.

1.2 Description &

a) Name: c) Sl. No .:

Micro Pipette

b) Code No .:

NRS - ICTC - G & O - MP - 01

Identification of item to be Calibrated:

e) Model / Type:

19411394 N.S.

d) Make:

Microlit

g) Sensor:

f) Range: h) Resolution: 200 µl (Fixed)

i) End User:

N.A. Gynae & OBS

j) Accuracy:

N.S.

N.A.

k) Calibration done at: 1.3 Date of receipt of item:

22-01-24

On Site / √ In House

1.5 Date of calibration:

OK

24-01-24

1.4 Physical Condition of DUC:

1.7 Date of Issue:

1.6 Recommended date of next calibration:

24-01-25

1.8 Environmental Conditions During Calibration:

24-01-24

Temperature:

20 °C ± 2 °C

Humidity:

30 % RH to 75 % RH

Pressure:

1012 mbar

1.9 Method of Calibration:

SOP / MASS / 02 (As Per ISO : 8655 - 6 : 2022)

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) Weights Cal. Certificate No. NC-210

ii) Digital Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 23

(NSTAR, Ahmedabad) (Cal. Date: 16/05/22, Due Date: 15/05/25)

(MTL. Barrackpore)

(Cal. Date: 15/09/23, Due Date: 15/09/24)

2.1 Result:

Mechanical Calibration: (Mass & Volume)

SI. 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 200 μl (Fixed)	200	199.4525	200.2503	0.2503	0.35

Remarks: i) Cubical Expansion co - efficient of pipette material taken as 10^{-5} μ l / °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.
- iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Opinions and Interpretations Accepted / Valid for use Calibrated Rejected / Out of use **Limited Use**

Calibrational Trigineer Measure Techno Lab S.Mahapatra Sit **Calibration Engineer**

Quality /

Checked-

chnical Manager

Pandey

Form No. - MTL/22/2006

Issue No.: 2 Issue Date: 10.11.06

Rev. No.: 04 Rev. Date: 01.04.22