

MEASURE TECHNO LAB

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CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.:MTL / SMCH(PPTCT) / R06 / 03 - 23

ULR - CC254523000005253F

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1.0 Service Request No.: MTL / 02F / 03 / 22 - 23

1.1 Issued to:

Office of The PPTCT.

Department of O&G,

Silchar Medical College & Hospital, Silchar, Cachar, Assam - 788014.

1.2 Description &

a) Name:

Micro Pipette

b) Code No.:

PPTCT / SMCH / O & G / MP - 02

Identification of item

c) Sl. No.:

221051091

d) Make:

Handypette

to be Calibrated:

e) Model / Type:

NS

f) Range:

100 µl to 1000 µl

g) Sensor:

NA

h) Resolution:

10 µl

i) End User:

PPTCT

j) Accuracy:

N.S.

k) Calibration done at:

1.8 Environmental Conditions During Calibration:

On Site / √ In House

1.3 Date of receipt of item:

28-02-23

1.4 Physical Condition of DUC:

1.5 Date of calibration:

02-03-23

1.6 Recommended date of next calibration:

02-03-24

1.7 Date of Issue:

04-03-23

Temperature:

23 °C ± 2 °C

Humidity:

50 % RH ± 10 % RH

Pressure:

1011.2 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 ii) Weights Cal. Certificate No. NC-210

(NSTAR, Ahmedabad)

(MTL, Barrackpore) (Cal. Date: 16/05/22, Due Date: 15/05/25) (Cal. Date: 16/09/22, Due Date: 16/09/23)

2.1 Result:

Mechanical Calibration

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	100	102.5505	102.9607	2.9607	
2.	100 µl to 1000	500	501.3158	503.3211	3.3211	0.39
3.	μl	1000	1000.5964	1004.5988	4.5988	

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

Collhanted	
Calibrated √ Accepted / Valid for	use
Limited Use Rejected / Out of use	

Calibrated by:

K.Barat Calibration Engineer

Checked

Quality & Technical Manager S. Pandey

Form No. - MTL/22/2006 Issue No. : 2 Issue Date : 10.11.06 Rev. No.: 04 Rev. Date: 01.04.22