

MEASURE TECHNO LAB

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CALIBRATION CERTIFICATE OF MICRO PIPETTE

IERATION CERTIFICATE NO.:MTL / KSDH / R02 / 04 - 23

ULR - CC254523000008967F

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

1.1 Issued to:

HIV Testing Laboratory,

ICTC Unit.

Kharagpur Sub Division Hospital, Kharagpur, Paschim Medinipur,

Pin - 721301.

11.2 Description &

a) Name:

Micro Pipette

b) Code No.:

KSDH / ICTC / MP - 01

Identification of item to be Calibrated:

c) Sl. No.: e) Model / Type: N.S.

d) Make:

Micropet

g) Sensor:

N.S. N.A.

f) Range: h) Resolution:

1000 µl (Fixed)

i) End User:

N.A.

k) Calibration done at:

Laboratory

j) Accuracy:

N.S.

113 Date of receipt of item:

04-04-23

On Site / √ In House

OK

11.5 Date of calibration :

05-04-23

1.4 Physical Condition of DUC: 1.6 Recommended date of next calibration:

05-04-24

1.7 Date of Issue :

07-04-23

Temperature:

20 °C ± 2 °C

LB Environmental Conditions During Calibration:

30 % RH to 75 % RH

Humidity: Pressure:

1005.3 mbar

11.9 Method of Calibration:

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

2.0 Traceability:

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

biThe following standards / Equipment have been used.

Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 22

(MTL, Barrackpore)

(Cal. Date: 16/09/22, Due Date: 16/09/23)

Magnis Cal. Certificate No. NC-210

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

ILI 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 1000 µl (Fixed)	1000	1002.2865	1006.2956	6.2956	0.39

Temarks: 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 Meastalibratechbyo Las Kolkata K.Barat

Calibration Engineer

echnical Manager

pandey

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