

MEASURE TECHNO LAB

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CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.:MTL / HIVTL (S) / R04 / 02 - 23

ULR - CC254523000004628F

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1.0 Service Request No.: MTL / 24B / 02 / 22 - 23

1.1 Issued to:

HIV Testing Laboratory (SRL & ICTC),

Department of Microbiology,

New STNM Multi Speciality Hospital, Sochakgang, Gangtok, Sikkim - 737101.

1.2 Description &

a) Name:

Micro Pipette

b) Code No.:

MICRO / STNM / SRL / PT / 8

Identification of item

c) Sl. No.:

LW08771

d) Make:

Thermo Scientific

to be Calibrated:

e) Model / Type:

Finnpipette F3

f) Range:

10 µl to 100 µl

g) Sensor:

N.A.

h) Resolution:

0.2 ul

i) End User:

Lab

i) Accuracy:

N.S.

k) Calibration done at:

1.3 Date of receipt of item:

23-02-23

On Site / √ In House 1.4 Physical Condition of DUC:

OK

1.5 Date of calibration:

24-02-23

1.6 Recommended date of next calibration: 24-02-24

1.7 Date of Issue:

25-02-23 1.8 Environmental Conditions During Calibration:

Temperature: **Humidity:**

23 °C ± 2 °C 50 % RH ± 10 % RH

Pressure:

1013.1 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) Weights Cal. Certificate No. NC-210

(NSTAR, Ahmedabad)

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

ii) 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)

2.1 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	10	10.1752	10.2159	0.2159	· · · · ·
2.	10 µl to 100 µl	50	50.1955	50.3963	0.3963	0.39
3.	107	100	100.0379	100.4381	0.4381	

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

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

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√	√ Accepted / Valid for use	
	Rejected / Out of use	
	→	

Calibrated by:

Calibration Engineer Measure Techno La Calibration Engineer

Form No. - MTL/22/2006

Quality & Technical Manager S. Pandey

Rev. No.: 04 Rev. Date: 01.04.22 Issue No.: 2 Issue Date: 10.11.06