



MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,
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CALIBRATION CERTIFICATE OF DIGITAL THERMOMETER

CALIBRATION CERTIFICATE NO.: MTL / HIVTL (S) / R13 / 07 - 22

ULR - CC254522000020717F

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1.0 Service Request No.: MTL / 29B / 07 / 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 & Identification of Item to be Calibrated:	a) Name:	Digital Thermometer	b) Code No.:	SRL / MICRO / STNMH / DT / 19
	c) Sl. No.:	N.S.	d) Make:	N.S.
	e) Model / Type:	ST - 9283 B	f) Range:	(-) 50 °C to 300 °C
	g) Sensor:	N.A.	h) Resolution:	0.1 °C
	i) End User:	HIV Testing Lab (Level - 2)	j) Accuracy:	N.S.

k) Calibration done at: On Site / In House

1.3 Date of receipt of item : 30-07-22

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 30-07-22

1.6 Recommended date of next calibration : 30-07-23

1.7 Date of Issue : 01-08-22

1.8 Environmental Conditions During Calibration: Temperature: 25.4 °C
Humidity: 65.8 % RH

1.9 Method of Calibration: SOP / TH / 01 (A)

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) Data Acquisition Switch Unit Cal. Certificate No. JRPM - CCTR - ET - 2021 - 1227 (JRPM, Chennai) (Cal. Date: 26/08/21, Due Date: 25/08/22)
- ii) RTD (PT - 100) Cal. Certificate No. TL / 021 / 1091.2.1 (TEMPSENS, Udaipur) (Cal. Date: 25/10/21, Due Date: 24/10/22)

2.1 Result :

Thermal Calibration

Sl. No.	Parameter/ Range	Measured Value on DUC °C	Corrected Std. Value °C	Error °C	Measurement Expanded Uncertainty ± °C
1.		-28.8	-28.458	-0.342	0.63
2.	Temperature	0.7	1.196	-0.496	0.63
3.	(-) 50 °C to 300 °C	100.5	99.876	0.624	0.60
4.		200.8	200.085	0.715	0.60
5.		298.7	297.875	0.825	2.64

- Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.
ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.
iii) Error = DUC Reading - Standard Reading.

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable Std. - Standard

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

Calibrated by: *[Signature]*
A. Bera
Calibration Engineer

Checked / Approved by: *[Signature]*
Quality & Technical Manager
P. Pande