



MEASURE TECHNO LAB

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NABL ACCREDITED LABORATORY
Certificate No. CC - 2545

CALIBRATION CERTIFICATE OF TEMPERATURE INDICATOR WITH SENSOR

CALIBRATION CERTIFICATE NO.: MTL / HIVTL (S) / R22 / 07 - 22

ULR - CC254522000020726F

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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:	Temperature Indicator with Sensor	b) Code No.:	SRL / MICRO / NSTNMMS / TR / 15
c) Sl. No.:	N.S.	d) Make:	Mextech
e) Model / Type:	N.S.	f) Range:	(-) 50 °C to 70 °C
g) Sensor:	N.A.	h) Resolution:	0.1 °C
i) End User:	PPTCT	j) Accuracy:	N.S.

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

√ On Site / In House

1.5 Date of calibration : 30-07-22

1.4 Physical Condition of DUC : OK

1.7 Date of Issue : 01-08-22

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

1.8 Environmental Conditions During Calibration: Temperature: 25.5 °C
Humidity: 65.3 % RH

1.9 Method of Calibration: SOP / TH / 04 (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.		-29.8	-29.547	-0.253	0.63
2.	Temperature	-15.2	-14.854	-0.346	0.63
3.	(-) 50 °C to 70 °C	0.5	1.087	-0.587	0.63
4.		30.4	31.071	-0.671	0.63
5.		68.9	69.689	-0.789	0.60

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:
 Calibration Engineer
 Measure Techno Lab
 A. Bera
 Calibration Engineer

Checked / Approved by:
 Quality & Technical Manager

Form No. - MTL/22/2006

Issue No. : 2 Issue Date : 10.11.06

Rev. No. : 04 Rev. Date : 01.04.22