


<b>MEASURE TECHNO LAB</b> <b>2, B.T. ROAD (JAYANTI CINEMA COMPLEX)</b> <b>BARRACKPORE, KOLKATA - 700120, W.B.</b> Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974, LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in	Form No. - MTL/22/2006	 NABL ACCREDITED LABORATORY Certificate No. CC - 2542
	<b>CALIBRATION CERTIFICATE OF</b> <b>DIGITAL THERMOMETER</b>	
<b>CALIBRATION CERTIFICATE NO.: MTL / CNCI / R04 / 06 - 21</b>		<b>ULR - CC254521000009811F</b>

1.0 Service Request No.: MTL / 08A / 06 / 21 - 22

1.1 Issued to: M/s. Chittaranjan National Cancer Institute,  
 Street No. 299, DJ Block (Newtown),  
 Action Area - I, Newtown, West Bengal - 700156.

1.2 Description & Identification of item to be Calibrated:

a) Name:	Digital Thermometer	b) Code No.:	DT - 02
c) Sl. No.:	N.S.	d) Make:	Acetecq
e) Model / Type:	N.S.	f) Range:	(-) 30 °C to 70 °C
g) Sensor:	N.A.	h) Resolution:	0.1 °C
i) End User:	Biochemistry	j) Accuracy:	N.S.
k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 08-06-21      1.4 Physical Condition of DUC : OK  
 1.5 Date of calibration : 08-06-21      1.6 Recommended date of next calibration : 08-06-22  
 1.7 Date of Issue : 10-06-21

1.8 Environmental Conditions During Calibration:      Temperature: 25.2 °C  
    Humidity: 64.7 % 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 - 2020 - 0795 (JRPM, Chennai) (Cal. Date: 01/09/20, Due Date: 31/08/21)  
 ii) RTD (PT - 100) Cal. Certificate No. TL / 020 / 891.2.1 (TEMPSENS, Udaipur) (Cal. Date: 27/10/20, Due Date: 26/10/21)

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	-29.435	-0.365	0.63
2.	Temperature (-) 30 °C to 70 °C	0.3	0.757	-0.457	0.63
3.		20.0	20.512	-0.512	0.63
4.		50.1	50.774	-0.674	0.60
5.		69.2	69.920	-0.720	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:  
 Testing Engineer  
 Measure Techno Lab  
 Testing Engineer  
 Kolkata  
 08/06/21

Checked / Approved by:  
  
 Quality & Technical Manager  
 S. Pandey