



RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

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CALIBRATION CERTIFICATE

1. CUSTOMER	-	Page No	- 1 of 1
M/S. LTMMC & GH, Department of Microbiology		NABL Accreditation No	- CC-2927
Sion, Mumbai - 400 022		Certificate No	- 21.09.15.015
Ambient Temp. (°C)	- 23.2	Date of Received	- 15.09.2021
Relative Humidity (%RH)	- 53	Date of Calibration	- 15.09.2021
Location of calibration	- On Steffn Lab	Next Calibration Due On	- 14.09.2022
Condition of Item	- OK	Calibration method No	- RTS-WI-10
		Date of Issue	- 17.09.2021
		ULR No	- CC292721000043684F

2. Description of Item

Name	- Temp indi with sensor (Thermometer)	Range	- 50 to 300 °C
Id No	- LTMGHMushHV-DRL/TM01	Least Count	- 0.1 °C
Make	- Multi Mextech		
Type	- Digital		

3. Detail of Equipment used for calibration

Name	- 6% DMM	PT-100 Sensor
Certificate No.	- CC/ECL/0556/20-21	TU021/531.1.1
Certified By	- IDEMI	Tempens
ID/Sr. No	- TW00005089	TPRT-1574
Range	- As per traceability	- 200 to 500 °C
Uncertainty	- As per traceability	± 0.15 °C
Calibration Validity	- 29.09.2021	10.06.2022

Discipline - Thermal Calibration Group - Temperature


4. Calibration Results

Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ±°C
2	2.12	2.2	0.08	0.40
4	4.23	4.4	0.17	0.40
6	6.31	6.5	0.29	0.40

Note:

- 1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration
- 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications
- 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Reliable Technical Services, Pune"
- 6) The Standard used are traceable to National / International Standard
- 7) Conformity with requirements :-

Calibrated By


Calibration Engineer
Dushant Morey



Approved By


Technical Manager
Sachin A. Mhasawade

RR-2.1, RD



Certificate of calibration

Name of the Equipment: Thermometer

Date of calibration: 16/10/2020

Serial No. / Model No.: Mextech

Next Calibration due on: 15/10/2021

Identification No.: MDACS/SPMH/ICTC/TM/01

Acceptable range: 2 to 8 degree Celsius ($^{\circ}\text{C}$)

Point of Calibration: 2°C , 4°C , 8°C

Tolerance (If Applicable): $\pm 2^{\circ}\text{C}$

Location of Calibration: At Site

Condition of Receipt Item: Good

Method of calibration: In- house calibration done using Calibrated Thermometer 2020-21

Traceability Certificate no: MA 309/ 2020-21

Calibration Result:

Calibration Points ($^{\circ}\text{C}$)	UUC Reading ($^{\circ}\text{C}$)			Standard Reading ($^{\circ}\text{C}$)	Mean
	Reading 1	Reading 2	Reading 3		
2	2.1	1.9	2	2	2
4	3.9	4.1	4	4	4
8	8.1	7.9	8	8	8

Acceptable Variation $\pm 2^{\circ}\text{C}$ of the Mean Value

UUC: Unit Under Calibration

Remarks: Instrument has passed / ~~failed~~ the Acceptance Criteria

Checked & Approved by:

Anita
16/10/2020
Ms. Anita Bhavadrao
SRL LTM & GH, Lion
Technical Officer, MDACS
Mumbai HOD 022