

**State Reference Laboratory
I. C. T. C.
Department of Microbiology
L. T. M. Medical College and General Hospital Mumbai-22**

Certificate of calibration

Name of the ICTC: Savitribai Phule Maternity Home

Name of the Equipment: Thermometer

Date of calibration: 12.10.2021

Serial No. / Model No.: Mextech

Next Calibration due on: 11.10.2022

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

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

Point of Calibration: 2 $^{\circ}\text{C}$, 4 $^{\circ}\text{C}$, 8 $^{\circ}\text{C}$

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

Location of Calibration: At Site

Condition of Receipt Item:

Method of calibration: In- house calibration done using Calibrated Thermometer 2021-22

Traceability Certificate no: IDEMI/CC/ECL/0556/20-21

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	2	2	2	2
4	4.1	4	3.9	4	4
8	7.9	8	8.1	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:



Ms. Anita A. Bharadwaj
Technical Officer, MDACS
SRL-LTMMC & GH, ICTC,
Sion, Mumbai - 400 022.



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CALIBRATION CERTIFICATE

1. CUSTOMER	Page No.	- 1 of 1
M/S. LTMCC & GH, Department of Microbiology	NABL Certificate No.	- CC-2927
Sion, Mumbai-400 022.	Certificate No.	- 21.09.15.014
Temperature (°C)	Date of Received	- 15.09.2021
Relative Humidity (% RH)	Date of Calibration	- 15.09.2021
Location of calibration	Next Calibration Due On	- 14.09.2022
Condition of Item	Calibration method No.	- RTS/WV05
	Date of Issue	- 17.09.2021
	ULR No.	- CC292721000040883F

2. Description of Item			
Name	- Stop Watch	Range	- 0 to 1 Hrs.
Id No	- LTMKINMOSHHRDPLUSTONE1	Least Count	- 1/100 sec
Make	- Racer		
Type	- Digital		

3. Details of Equipment used for calibration	
Name	- Time Calibrator
Certificate No.	- CC/ECL/0962/20-21
Certified By	- IDEMI
ID/Gr. No.	- RTS-TM-03
Range	- 0.010 to 999999.999 sec
Uncertainty	- As per Traceability
Calibration Validity	- 18.10.2021

Discipline - Electrotechnical Calibration Group - Time & Frequency

4. Calibration Results											
Calibration Points	Standard Reading				UUC Reading				Error in	Expanded Uncertainty in ±	
	min	sec	msec	microsec	Hr	min	sec	msec	Hr.min.sec.msec	%	
	00	05	00	000	00	05	00	12	00.00.00	12	3.1
5	00	10	00	000	00	10	00	15	00.00.00	15	3.1
10	00	15	00	000	00	15	00	21	00.00.00	21	0.14
15	00	20	00	000	00	20	00	24	00.00.00	24	0.14
20	00	30	00	000	00	30	00	28	00.00.00	28	0.14
30	00	60	00	000	00	60	00		00.00.00		0.14
60											

- Note:**
- 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.
 - This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
 - The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
 - Calibration point were selected as per customer specifications.
 - 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"
 - Conformity with requirements -

Calibrated By

 Calibration Engineer
 Dushant Morey



Approved By

 Technical Manager
 Sachin A. Mhasawade

RTS-21-80

