

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 Equipment: Thermometer

Date of calibration: 23/07/2021

Serial No. / Model No.: - Paico

Next Calibration due on: 22/07/2022

Identification No.: BMC/ICTC/RH/TM/03

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	2.1	1.9	2	2	2
4	3.9	4.1	4	4	4
8	8.2	7.8	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:

*Ant*  
23/07/2021

Technical Officer, MDACS  
SRL-LTMMC & GH  
Lion Mumbai 400022.

RAJAWADI HOSPITAL  
State Reference Laboratory

I. C. T. C.

Department of Microbiology

L. T. M. Medical College and General Hospital Mumbai-22

Certificate of calibration of Rajawadi Hospital

Name of the Equipment: Centrifuge

Date of calibration: 23/07/2021

Serial. No. / Model No.: CCLC-1115/C85416

Next Calibration due on: 22/07/2022

Identification No.: MDACS/ICTC/RH/CEN/03

Acceptable range: 2500 rpm to 3000 rpm

Point of Calibration: 2500 rpm & 3000 rpm

Tolerance (If Applicable):  $\pm 5\%$

Location of Calibration: At Site

Condition of Receipt Item: Good

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

Traceability Certificate no: IDEMI/CC/ECL/0568/2020-21

Calibration Result:

Calibration Points (rpm)	UUC Reading (rpm)			Standard Reading (rpm)	Mean rpm
	Reading 1	Reading 2	Reading 3		
2500	2505	2495	2500	2500	2500
3000	3010	2990	3000	3000	3000

Acceptable Variation  $\pm 5\%$  of the Mean Value

UUC: Unit Under Calibration

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

Checked & Approved by:

*[Signature]*  
23/07/2021  
Technical Officer, MDACS

SRL-LTMMC & GH

Gen Mumbai - 22.



# RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

"RELIABLE HOUSE" 497/2834-35, Sant Tukaram Nagar,  
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Call : 7774055755, 7774055855, 7774056855, 7774027900  
Email : reliable1010@gmail.com, reliabletechnocare@gmail.com  
Web : www.reliable.world



## CALIBRATION CERTIFICATE

<b>1. CUSTOMER</b>	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
- 23.6	Date of Issue	- 17.09.2021
- 54	ULR No.	- CC292721000040883F
- On Site/In lab		
- OK		

**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 ±
	Hr	min	sec	msec	Hr	min	sec	msec	Hr.min.sec.msec	%
min										
5	00	05	00	000	00	05	00	12	00.00.00.12	3.1
10	00	10	00	000	00	10	00	15	00.00.00.15	3.1
15	00	15	00	000	00	15	00	21	00.00.00.21	0.14
20	00	20	00	000	00	20	00	24	00.00.00.24	0.14
30	00	30	00	000	00	30	00	28	00.00.00.28	0.14
60	00	60	00	000	00	60	00		00.00.00	0.14

- 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) Conformity with requirements -

Calibrated By  
*Dushant Morey*  
Calibration Engineer  
Dushant Morey



Approved By  
*SAB*  
Technical Manager  
Sachin A. Mhasawade

