

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: Centrifuge
Date of calibration: 18/10/2020
Serial. No. / Model No.: A010-565 Remi
Next Calibration due on: 17/10/2021
Identification No.: MDALS /SPMH/ICTC/cen/02
Acceptable range: 2500 - 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 2020-21
Traceability Certificate no: IDEMI, MUM/CC/ECL/0289/2020-21

Calibration Result:

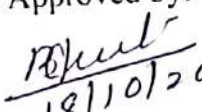
Calibration Points (rpm)	UUC Reading (rpm)			Standard Reading (rpm)	Mean (rpm)
	Reading 1	Reading 2	Reading 3		
2500	2490	2480	2530	2500	2500
3000	3020	2990	2990	3000	3000

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

UUC: Unit Under Calibration

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

Checked & Approved by:


18/10/2020
Technical Officer, MDACS



RELIABLE TECHNICAL SERVICES

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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.	- 21.09.15.013
Temperature(°C) - 22.5	Date of Received	- 15.09.2021
Relative Humidity (%RH) - 54	Date of Calibration	- 15.09.2021
Location of calibration - In lab/On Site	Next Calibration Due On	- 14.09.2022
Condition of Item - OK	Calibration method No	- RTS-WI-06
	Date of Issue	- 17.09.2021
	ULR No	- CC292721000043682F

2. Description of Item

Name	- Tachometer	Range	- 2.5 to 99999 RPM
Id No	- LTMMGHMicro/IV/DRLT ACH/01	Least Count	- 0.1/1 RPM
Make	- Mextech/DT-2234C		
Type	- Digital		

3. Details of Equipment used for calibration

Name	- DIG. TACHOMETER
Certificate No.	- CC/ECL/0568/20-21
Certified By	- IDEMI
ID/Sr. No.	- RTS-RPM-03
Range	- 1 to 99999 RPM
Uncertainty	- ± 6 RPM
Calibration Validity	- 28/09/2021

Discipline - Mechanical Calibration Group - Acceleration, Speed & Acoustics-Speed

4. Calibration Results

Calibration Points	Standard Reading	UUC Reading	Error in	Expanded Uncertainty in
RPM	RPM	RPM	RPM	RPM
1500	1501	1502	1	5.3
2000	2001	2004	3	5.3
2500	2502	2506	4	5.3
3000	3003	3008	5	5.3

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

D Morey
Calibration Engineer
Dushant Morey



Approved By

SJB
Technical Manager
SACHIN A. MHASAWADE

RF-21, R0

