

## CALIBRATION CERTIFICATE

<b>SUBJECT: CALIBRATION OF CENTRIFUGE</b>	<b>CERTIFICATE NO.: ML/MCH/0777/04/2022-23</b>	
	Certificate Issue Date 04/03/2023	Page 1 of 1



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| <p>1. <b>Scope</b></p> <p>1.1 <b>Service Request Details</b></p> <p>1.1.1 <b>Service Request No.</b></p> <p>1.1.2 <b>Service Request Finalized On</b></p> <p>1.1.3 <b>Unique Lab Report Number (ULR No.)</b></p> <p>1.1.4 <b>Discipline / Group</b></p> <p>1.1.5 <b>Name &amp; Address of Organization</b></p> | <p>Calibration<br/>ML/0777/22-23<br/>01/03/2023<br/>CC266423000005367F<br/>Mechanical / Acceleration and Speed<br/><b>HEER LAB</b><br/>116-120, National Plaza, Opp. Ayurvedic College, Above Kabir Resturant, Station Road, Surat, Gujarat, India, 395003.</p> |
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- 1.2 **Item Details**
- 1.2.1 **Condition of the Item** Working

1.2.2 <b>Nomenclature</b>	Centrifuge		
<b>Manufacturer</b>	LABLINE	<b>Model No.</b>	---
<b>ID No.</b>	CF-03	<b>Sr.No.</b>	---
<b>Range</b>	0 to 4000 RPM	<b>Type</b>	Analog
<b>Least Count</b>	1 RPM	<b>Accuracy</b>	---
<b>Department</b>	BIOCHEMISTRY DEPARTMENT	<b>Location</b>	BIOCHEMISTRY DEPARTMENT

- 1.3 **Item Received On** Dt. 02/03/2023 Onsite

1.4 **Details of Test Equipments Used**

Instrument Name	UID No.	Certificate No.	Make	Due Date
Digital Tachometer	ML/DTM/001	CC/ECL/1134/22-23	Beha	31/10/2023

- 1.4.1 **Operating Procedures Used:** ML/SOP/M/A&S/001

- 1.5 **Date of Calibration:** 02-March-2023

- 1.6 **Recommended Due Date of Calibration:** 01-March-2024

1.7 **OBSERVATIONS:**

- 1.7.1 **Site Ambient:** Temperature: 25.5 °C (25±10) Humidity: 51 %RH (50±20)

- 1.7.2 **Parameter:** Acceleration (RPM)

CALIBRATION RESULTS					
Sr. No.	Calibration Point	Set Value on IUC (A)	Measured Value on Master (B)	Error (A - B)	(±) Expanded Uncertainty
1	200.00	200	201.0	-1.00	0.492 %
2	800.00	800	802	-2.00	0.396 %
3	2000.00	2000	2002	-2.00	0.360 %
4	3200.00	3200	3204	-4.00	0.360 %
5	3600.00	3600	3604	-4.00	0.360 %

**Note:** The value mentioned above is the mean of 3 readings.

1.8 **General Remarks:**

- 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 95.45% for a normal distribution.
- Uncertainty to be calculated at Max Error / Full Range of IUC
- Any anomalies/Discrepancies in the certificate should be brought to our notice within 30 days from the date of issue Certificate.
- IUC\* (Instrument Under Calibration)
- The Measurements are metrologically traceable to applicable national /International Standards.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The results related to the item calibrated.

Calibrated By: Ashvin Patel, Calibration Engineer

AUTHORISED SIGNATORY

Ranjit Rohit / Hitesh Patel  
Technical Director / Quality Manager

\*\*\* End of Certificate \*\*\*

Doc. No. Form-21, Amend. 05 Dt.. 01-01-2022