

CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF MICROPIPETTE	CERTIFICATE NO.: ML/MCH/0908/01/2022-23	
	Certificate Issue Date 20/03/2023	Page 1 of 1

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| <p>1. Scope</p> <p>1.1 Service Request Details</p> <p>1.1.1 Service Request No.</p> <p>1.1.2 Service Request Finalized On</p> <p>1.1.3 Unique Lab Report Number (ULR No.)</p> <p>1.1.4 Discipline / Group</p> <p>1.1.5 Name & Address of Organization</p> | <p>Calibration</p> <p>ML/0908/22-23</p> <p>18/03/2023</p> <p>CC266423000007338F</p> <p>Mechanical / Volume</p> <p>HEER LAB</p> <p>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	Nomenclature	Micropipette		
	Manufacturer	P'fact	Model No.	---
	ID No.	PB539234	Sr.No.	PB539234
	Range	5 to 50 µl	Type	---
	Least Count	0.5 µl	Accuracy	---
	Department	---	Location	---

- 1.3 **Item Received On** Dt. 17/03/2023

1.4 **Details of Test Equipments Used**

Instrument Name	UID No.	Certificate No.	Make	Due Date
Micro Balance	ML/DWB/009	NC-520	RADWAG	09/10/2023

- 1.4.1 **Operating Procedures Used:** ML/SOP/M/WWV/003

- 1.4.2 **Reference Standard:** ISO 8655-6

- 1.5 **Date of Calibration:** 18-March-2023

- 1.6 **Recommended Due Date of Calibration:** 17-March-2024

1.7 **OBSERVATIONS:**

- 1.7.1 **Laboratory Ambient:** Temperature: 23.6 °C (22.5±4.5) Humidity: 55.3 %RH (50±10) Pressure: 1001.2 hPa (950±100)

- 1.7.2 **Parameter:** Volume (µl) Measured Value Converted @27°C

Sr. No.	Measured Value on Master (A)	Set Value on IUC (B)	Error (B - A)	(±) Expanded Uncertainty
1	9.864	10	0.136	0.06 µl
2	24.827	25	0.173	0.3 µl
3	44.668	45	0.332	0.3 µl

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: Pankaj Lad, Senior 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

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