

## CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF MICROPIPETTE	CERTIFICATE NO.: ML/MCH/0777/06/2022-23	
	Certificate Issue Date 06/03/2023	Page 1 of 1

1. **Scope**
- 1.1 Service Request Details
- 1.1.1 Service Request No.
- 1.1.2 Service Request Finalized On
- 1.1.3 Unique Lab Report Number (ULR No.)
- 1.1.4 Discipline / Group
- 1.1.5 Name & Address of Organization

Calibration  
ML/0777/22-23  
01/03/2023  
CC266423000005553F  
Mechanical / Volume  
HEER LAB



116-120, National Plaza, Opp. Ayurvedic College, Above Kabir Resturant, Station Road, Surat, Gujarat, India, 395003.

- 1.2 **Item Details**

- 1.2.1 Condition of the Item

Working

- 1.2.2

Nomenclature	Micropipette		
Manufacturer	P'fact	Model No.	---
ID No.	NC451711	Sr.No.	NC451711
Range	50 µl	Type	---
Least Count	---	Accuracy	---
Department	---	Location	---

- 1.3 Item Received On

Dt.

- 1.4 **Details of Test Equipments Used**

Instrument Name	UID No.	Certificate No.	Make	Due Date
Weighing Balance	ML/DWB/003	NC-121 & NC-122	SHIMADZU	07/03/2023

- 1.4.1 Operating Procedures Used:

ML/SOP/M/WWW/003

- 1.4.2 Reference Standard:

ISO 8655-6

- 1.5 Date of Calibration:

04-March-2023

- 1.6 Recommended Due Date of Calibration:

03-March-2024

- 1.7 **OBSERVATIONS:**

- 1.7.1 Laboratory Ambient:

Temperature: 24.2 °C (22.5±4.5)

Humidity: 54.3 %RH (50±10)

Pressure: 1002.2 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	49.14	50	0.86	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