

CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF MICROPIPETTE	CERTIFICATE NO.: ML/MCH/0777/07/2022-23	
	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

CC26642300005557F

Mechanical / Volume

HEER LAB

116-120, National Plaza, Opp. Ayurvedic College, Above Kabir Restaurant, 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.	OD501294	Sr.No.	OD501294
Range	100 to 1000 µl	Type	---
Least Count	5 µl	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: 24.3 °C (22.5±4.5)

Humidity: 54.2 %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	201.22	200	-1.22	0.78 µl
2	502.12	500	-2.12	0.78 µl
3	903.22	900	-3.22	0.78 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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CERTIFICATE