Matrix LAB
CERTIFIED CALIBRATION & VALIDATION SERVICES

CC-2664

CALIBRATION CERTIFICATE

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

1. **Scope**

1.1	**Service Request Details**	Calibration
1.1.1	**Service Request No.**	ML/0908/22-23
1.1.2	**Service Request Finalized On**	18/03/2023
1.1.3	**Unique Lab Report Number (ULR No.)**	CC266423000007344F
1.1.4	**Discipline / Group**	Mechanical / Volume
1.1.5	**Name & Address of Organization**	**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	---	**Model No.**	---
ID No.	101389	**Sr.No.**	101389
Range	500 µl	**Type**	---
Least Count	---	**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: 55.6 %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	465.463	500	34.537	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

CERTIFICATE