

CALIBRATION CERTIFICATE

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| SUBJECT: CALIBRATION OF MICROPIPETTE | CERTIFICATE NO.: ML/MCH/0777/05/2022-23 | |
| | Certificate Issue Date 06/03/2023 | 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/0777/22-23</p> <p>01/03/2023</p> <p>CC266423000005552F</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 | --- | Model No. | --- |
| | ID No. | 247930 | Sr.No. | 247930 |
| | Range | 25 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/WWV/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: 24.4 °C (22.5±4.5) Humidity: 54.5 %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 | 24.77 | 25 | 0.23 | 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