



Calibration(CC-3128)

Calibration Certificate

Certificate Issued to

IMPULSE DIAGNOSTICS

HAILAKANDI ROAD, SILCHAR, INDIA,



Calibration Certificate No: 170503095/170503095-70

Date of Issue: 01-SEP-2021

Customer Relationship Number 334629

Equipment

MICRO PIPETTE

Customer Reference No :

WO/PO No:

Kind Attention :

E-Mail: **NIL**

Contact No: 9958279074

The Calibration Results relate only to the item Calibrated

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature

Spectro Analytical Labs Limited

S-1, GNEPIP, Surapur Industrial Area Phase-V, Kasna, Greater Noida-201308 (India)

Phone : +91-120-2341250,2341251 || URL : www.spectro.in || Email: care@spectro.in

BIS Approved, ISO 9001:2008 & ISO 14001:2004 & OHSAS 18001:2007 Certified Laboratory

Please refer to our Website www.spectro.in for Terms & Condition

1. **Date of Calibration:** 01.09.2021

2. **Description & Identification of the Instrument/Equipment:**

| | |
|----------------------------------|--------------------|
| Name of the Equipment/Instrument | Micro Pipette |
| Make | ARWA |
| Model No. | MB400463 |
| Serial No | --- |
| Identification No. | --- |
| Range/Size | 100 -100- μ ML |
| Least Count | 5 μ ML |
| Location | LAB |
| Condition of the DUC | Working |

3. **Environmental Condition:**

| Parameters | Observed Reading | Requirement as per Relevant Standard |
|---|------------------|--------------------------------------|
| Temperature (at the time of Calibration) $^{\circ}$ C | 23 | 23 \pm 2 |
| Relative Humidity, % RH | 50 | 50 \pm 10% RH |

4. **Principle/Methodology of Calibration & Calibration Procedure Number:**

| | |
|--------------------------------------|-----------|
| Reference Calibration Procedure No. | SOP-TC/02 |
| Principle/Methodology of Calibration | IS 6274 |

5. **Parameter(s) Calibrated:** Micro Pipette

6. **Standard(s) used, Associated Uncertainty & Traceability of Standards(s) used:**

| S. No. | Name | Make | Uncertainty (\pm) | Traceability | Validity |
|--------|------------------|------|-----------------------|-------------------------------|------------|
| 1 | Weighing Balance | BNT | 20 -220 μ ML | ERTL(N)/90(4)-(2016-17)/R1005 | 19/11/2021 |

Calibration Engineer's Signature

Spectro Analytical Labs Limited

Phone : +91-120-2341250,2341251 ||



S-1 GNEPIP, Surajpur Industrial Area, Phase-V, Kasna, Greater Noida-201308 (

URL : www.spectro.in || Email: care@spectro.in

BIS Approved, ISO 9001:2008 & ISO 14001:2004 & OHSAS 18001:2007 Certified Laboratory
Please refer to our Website www.spectro.in for Terms & Condition

7. Calibration Results:

| Calibration Results | | | |
|---------------------|----------------------|--------------------------------|-------------------------------|
| S. No. | DUC* Reading (°C) | Corrected Std. Reading (°C) | Expanded Uncertainty (±°C) |
| 1. | 100 | | |
| 2. | 500 | 99.18 | -0.82 |
| 3. | 1000 | 500.45 | -0.45 |
| | | 999.73 | -0.44 |

Remarks:

1. DUC*: - Device Under Calibration.
2. The Expanded Uncertainty associated with measurement at approximate 95% confidence level with coverage factor $k = 2$.
3. Temperature Scale used ITS-90.

8. Next Date of Calibration (Recommended): 01.10.2022



Calibration Engineer's Signature

Spectro Analytical Labs Limited

Phone : +91-120-2341250,2341251 || URL : www.spectro.in || Email: care@spectro.in

BIS Approved, ISO 9001:2008 & ISO 14001:2004 & OHSAS 18001:2007 Certified Laboratory
 Please refer to our Website www.spectro.in for Terms & Condition



S-1, GNEPIP, Surajpur Industrial Area, Phase-V, Kasna, Greater Noida-201308 (India)