



CC-2725

**CERTIFICATE OF CALIBRATION**

| Certificate No : CC-24-25-L-133/02 | | | | Page. No : 1 of 1 | | | | | | | |
|--|-------------------------------|--------------------------------|-------------------|-----------------------------------|---------------------------|---------------------|--|------------------|--------------|-----------------------------|--|
| Customer Name & Address M/s. Vishnu Clinical Lab, #Rasipuram, Main Road, Vaiyappamalai. | | | | ULR No. | CC27252400001980F | | | | | | |
| | | | | SRF No. | VCI-24-25-L-133 | | | | | | |
| | | | | Date of Receipt | 10.05.2024 | | | | | | |
| | | | | Date of Calibration | 10.05.2024 | | | | | | |
| | | | | Due Date for Calibration | 09.05.2025 | | | | | | |
| | | | | Date of Issue | 11.05.2024 | | | | | | |
| Details of Unit Under Calibration | | | | | | | | | | | |
| Description | Micropipette | Make | MERIL | | | | | | | | |
| Range | 100-1000µl | Model | -- | | | | | | | | |
| Resolution | 1 µl | Material | pvc | | | | | | | | |
| Serial Number | 315795 | Operating Range | 100-1000µl | | | | | | | | |
| ID Number | VL/LAB/VMP/002 | Condition of UUC | Good | | | | | | | | |
| Cal. At | Mechanical Lab | Instrument Location | -- | | | | | | | | |
| Environmental Condition | | | | Calibration Method Used | | | | | | | |
| Temperature (°C) | 23±2 | Humidity (%RH) | 55±15 | National / International Standard | | ISO 8655-6 | | | | | |
| Atmospheric Pressure (mbar) | 1006 | Water Temperature (°C) | 21.6 | Cal Procedure No | | VCI-L03-WI-MASS-003 | | | | | |
| Standard Used | | | | | | | | | | | |
| Sl. No. | Description | ID.No. | Certificate No. | Make/Model | Traceability | Valid till | | | | | |
| 1 | Electronic Semi Micro Balance | VCI-M-SMB-067 | CC-23-24-S-296/01 | Radwag/AS 82/220.R2.PLUS | Venus Calibration CC-2725 | 27.06.2024 | | | | | |
| Z Factor: 1.00319 | | | | | | | | | | | |
| Result of Calibration in µl | | | | | | | | | | | |
| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) | |
| 1 | 100 | 100.03 | 100.07 | 100.11 | 100.15 | 100.19 | 100.12 | 0.12 | 0.06 | 1.00 | |
| | | 100.05 | 100.09 | 100.13 | 100.17 | 100.23 | | | | | |
| 2 | 500 | 500.26 | 500.32 | 500.37 | 500.41 | 500.47 | 500.38 | 0.38 | 0.08 | 1.00 | |
| | | 500.29 | 500.35 | 500.39 | 500.45 | 500.49 | | | | | |
| 3 | 1000 | 1000.51 | 1000.55 | 1000.59 | 1000.63 | 1000.67 | 1000.60 | 0.60 | 0.06 | 1.00 | |
| | | 1000.53 | 1000.57 | 1000.61 | 1000.65 | 1000.69 | | | | | |
| Note: Conformity Statement | | | | | | | | | | | |
| Pass: <input checked="" type="checkbox"/> | | Fail: <input type="checkbox"/> | | | | | | | | | |
| Remarks | | | | | | | | | | | |
| 1. UUC is Defined as the Unit Under Calibration. | | | | | | | | | | | |
| 2. The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor k=2. | | | | | | | | | | | |
| 3. This Calibration Certificate relates only to the above UUC & Reported results are valid at the time of and under the stated conditions of measurements. | | | | | | | | | | | |
| 4. Calibration of the UUC are traceable to National / International Standards. | | | | | | | | | | | |
| 5. This report shall not be reproduced in full/ part without prior permission of Venus Calibration and Instruments. | | | | | | | | | | | |
| 6. The recalibration interval shall be determined on the user requirements. | | | | | | | | | | | |
| 7. Nabl-133 guidelines are adopted for use of NABL symbol. | | | | | | | | | | | |
| 8. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696. | | | | | | | | | | | |
| 9. Our Nabl Scope is Upto 10µl to 10ml. | | | | | | | | | | | |
| 10. The Deviation is within MPE, So after calibration is not required. | | | | | | | | | | | |
| Checked & Issued by: | | | | | | | | | | | |
| | | | | | | | | | | | |
| R. Bhuvaneshwari | | | | | | | | | | | |
| (Engineer - Calibration) | | | | | | | | | | | |
| *****END OF THE CERTIFICATE***** | | | | | | | | | | | |
| | | | | | | | Authorised by: C. Dhinakaran (Technical / Quality Manager) | | | | |