




| CALIBRATION CERTIFICATE   |         |   |         |                       |         |  |         |   |   |               |  |
|---|---------|---|---------|-----------------------|---------|--|---------|---|---|---------------|--|
| ULR NO :  |         | CC31022400001061F   |         |                       |         | CERTIFICATE No. :  |         | UCSL/04-24/091_01   |   |               |  |
| Customer Name & Address:  |         |   |         |                       |         | Instrument receipt Date  |         | 16.04.2024  |   |               |  |
| M/s. MICRO HEALTH LABORATORIES<br>MP TOWER, NEXT TO LAVANYA PLAZA, NEAR THALUK HOSPITAL,<br>THAMARASSERY, KERALA - 673 573  |         |   |         |                       |         | SRF No.  |         | 091   |   |               |  |
|   |         |   |         |                       |         | Calibration Date   |         | 17.04.2024  |   |               |  |
|   |         |   |         |                       |         | Next calibration date<br>(As per customer request)   |         | 17.04.2025  |   |               |  |
|   |         |   |         |                       |         | Certificate Issue date   |         | 23.04.2024  |   |               |  |
| Identification on DUC (Device Under Calibration)  |         |   |         |                       |         |  |         |   |   |               |  |
| Instrument Name   |         | MICROPIPETTE  |         |                       |         | Make   |         | DRAGON LAB  |   |               |  |
| Range   |         | 100 - 1000 µl   |         |                       |         | Model  |         | ---   |   |               |  |
| Least count   |         | 5 µl  |         |                       |         | Instrument Condition   |         | OK  |   |               |  |
| Serial No.  |         | YEA17AD0058373  |         |                       |         | Calibration Performed at   |         | Mass & Volume Lab   |   |               |  |
| ID No.  |         | MHL/TSY/13  |         |                       |         | Location   |         | ---   |   |               |  |
| Environmental Condition   |         |   |         | Avg. Temperature (°C) |         | Avg. RH (%)  |         | Avg. Atmospheric Pressure (hpa)   |   |               |  |
|   |         |   |         | 23.5                  |         | 55   |         | 1010  |   |               |  |
| Equipment & Master Used For calibration   |         |   |         |                       |         |  |         |   |   |               |  |
| Instrument Used   |         | Calibrated By   |         | ID No:                |         | Certificate No   |         | Valid Upto  |   | Sr No.        |  |
| Weighing Balance  |         | UCSL  |         | UCSL-WB-01            |         | UCSL/10-23/311_01  |         | 14.10.2024  |   | 0037905909    |  |
| Method Used :   |         |   |         |                       |         | Gravimetric method   |         |   | Discipline & Category : Mechanical - Volume |               |  |
| Calibration Reference Standard  |         |   |         |                       |         | Calibration Procedure  |         |   |   |               |  |
| ISO-8655-6 & ISO /TR 20461  |         |   |         |                       |         | UCSL/SOP/01-MPT  |         |   |   |               |  |
| CALIBRATION RESULTS @27°C:-   |         |   |         |                       |         |  |         |   |   |               |  |
| 1. Lower Volume 100 µl  |         |   |         |                       |         |  |         |   |   |               |  |
| 1   | 2       | 3   | 4       | 5                     | 6       | 7  | 8       | 9   | 10  | Mean Volume V |  |
| 101.15  | 100.17  | 100.58  | 100.63  | 99.96                 | 101.49  | 101.57   | 101.63  | 99.67   | 100.20                                      | 100.71        |  |
| Systematic Error es µl :  |         |   | -0.71   |                       |         | Error Limits<br>(± 8 µl)   |         | Random Error in sr µl :   |   | 0.72          |  |
| Systematic Error es in % :  |         |   | -0.71   |                       |         | (± 8.0%)   |         | Random Error in Cv in % :   |   | 0.71          |  |
| 2. Middle Volume 500 µl   |         |   |         |                       |         |  |         |   |   |               |  |
| 1   | 2       | 3   | 4       | 5                     | 6       | 7  | 8       | 9   | 10  | Mean Volume V |  |
| 504.05  | 502.84  | 502.23  | 502.69  | 502.78                | 504.42  | 502.71   | 502.70  | 504.91  | 504.59                                      | 503.39        |  |
| Systematic Error es µl :  |         |   | -3.39   |                       |         | Error Limits<br>(± 8 µl)   |         | Random Error in sr µl :   |   | 0.98          |  |
| Systematic Error es in % :  |         |   | -0.68   |                       |         | (±1.6%)  |         | Random Error in Cv in % :   |   | 0.20          |  |
| 3. Nominal Volume 1000 µl   |         |   |         |                       |         |  |         |   |   |               |  |
| 1   | 2       | 3   | 4       | 5                     | 6       | 7  | 8       | 9   | 10  | Mean Volume V |  |
| 1003.58   | 1004.66 | 1004.60   | 1005.18 | 1003.88               | 1003.30 | 1004.81  | 1004.87 | 1003.51   | 1005.05                                     | 1004.34       |  |
| Systematic Error es µl :  |         |   | -4.34   |                       |         | Error Limits<br>(± 8.0 µl)   |         | Random Error in sr µl :   |   | 0.70          |  |
| Systematic Error es in % :  |         |   | -0.43   |                       |         | (± 0.80 %)   |         | Random Error in Cv in % :   |   | 0.07          |  |
| Decision Rule is Applied or Not   |         |   |         |                       |         |  |         |   |   | Yes           |  |
|   |         |   |         |                       |         |  |         |   |   | No            |  |
|   |         |   |         |                       |         |  |         |   |   | ✓             |  |
| Conclusion /Remarks:  |         |   |         |                       |         |  |         |   |   |               |  |
| The Reported Uncertainty from 100 to 1000 µl is 0.60 µl at Coverage Factor K=2, which corresponds to a confidence level at approximately 95 %                       |         |   |         |                       |         |  |         |   |   |               |  |
| 1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.   |         |   |         |                       |         |  |         |   |   |               |  |
| 2. This report is valid for Scientific & Industrial Purpose Only  |         |   |         |                       |         |  |         |   |   |               |  |
| 3. This report should not be reproduced except in full without our prior permission in writing.   |         |   |         |                       |         |  |         |   |   |               |  |
| 4. Calibration certificate without signature are not valid.   |         |   |         |                       |         |  |         |   |   |               |  |
| 5. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements. |         |   |         |                       |         |  |         |   |   |               |  |
| 6. This Calibration Certificate relates only to the above DUC   |         |   |         |                       |         |  |         |   |   |               |  |
| 7. DUC : Device under calibration   |         |   |         |                       |         |  |         |   |   |               |  |
| Calibrated by   |         |  |         |                       |         | Checked By   |         |  |   |               |  |
|   |         |   |         |                       |         |  <p>Issued / Approved By<br/>(APPU K MANI)<br/>Technical Director</p> |         |   |   |               |  |

--- End of Certificate ---

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