



Cert No. CC-2543



Medical Engineering & Services
Things Beyond Thoughts

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CALIBRATION CERTIFICATE

| | | | |
|----------------------|--|---------------|---------------------|
| Certificate Number | : MES/180122/C3 | ULR Number | : CC25432200000050F |
| Customer Details | : SEVENA HITECH LAB, PARAPPUR, THRISSUR. | | |
| Date of Calibration | : 18/01/2022 | Date of SRF | : 18/01/2022 |
| Next Calibration Due | : 17/01/2023 | Date of Issue | : 18/01/2022 |

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

| | | | |
|---------------------|----------------|------------|----------------|
| Nomenclature | : Micropipette | Serial No. | : AP20243 |
| Make / Model | : MISPA/ACURET | ID No. | : - |
| Equipment Condition | : Good | Resolution | : 0 µl |
| Range | : 500µL | Location | : BIOCHEMISTRY |

DETAILS OF MASTER EQUIPMENT USED

| | | | |
|-----------------|--------------------------------|----------------------|---------------|
| Nomenclature | : Electronic Precision Balance | Range | : 0 – 210 gm |
| Make | : Boeco | Readability | : 0.01/0.1 mg |
| Model | : BBC-22 | Serial No. | : 27104178 |
| Certificate No. | : TVSPL21/10/227-01 | Calibration Due Date | : 05.10.2022 |

ENVIRONMENTAL CONDITIONS

| | | | |
|-----------------|-----------------------|-----------------------------|-----------------------|
| Temperature(°C) | Relative Humidity (%) | Atmospheric Pressure (mbar) | Water Temperature(°C) |
| 26.5 | 56 | 1004 | 26.6 |

CALIBRATION RESULTS

| Discipline | | Mechanical | | | Parameter | | Volume | |
|------------|------------|----------------|------------------|-----------------------------|--------------|-------------------------|----------------------|--|
| Sl. No. | Set Volume | Standard Value | Systematic Error | Acceptable Systematic Error | Random Error | Acceptable Random Error | Expanded Uncertainty | |
| | µl | µl | µl | ± µl | µl | ± µl | ± µl | |
| 1 | 500 | 500.94 | -0.94 | 4.00 | 0.27 | 1.50 | 0.791 | |

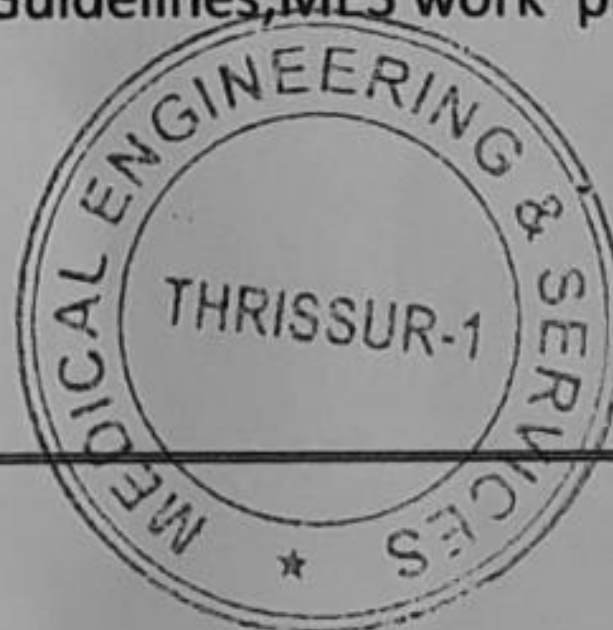
Notes: -

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced except in full without the written approval of this centre.
- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

Prabin KP

(Calibration Engineer)



Authorized Signatory

Binoj Thomas

(Technical Manager)