

CALIBRATION CERTIFICATE

| | | |
|--|--------------------------|-------------------|
| Certificate No: SBS/CL/23/13589 | | Page. No : 1 of 1 |
| Customer Name & Address | | |
| GOVERNMENT PRIMARY HEALTH CENTRE KARIYAPATTINAM-614806,NAGAPATTINAM DISTRICT. | SRF No. | SRF/23/00773-0004 |
| | SRF Date | 06-10-2023 |
| | Date of Receipt | 05-10-2023 |
| | Date of Calibration | 06-10-2023 |
| | Due Date for Calibration | 05-10-2024 |
| | Issue Date | 07-10-2023 |

| | | | |
|-----------------------------------|----------------|---------------------|-------------------|
| Details of Unit Under Calibration | | | |
| Description | Micro Pipette | Make | THERMO SCIENTIFIC |
| Range | 100-1000µl | Model | FINNPIPETTE F3 |
| Resolution | 1µl | Material | PVC |
| Serial Number | NA | Operating Range | 100-1000µl |
| ID Number | NA | Condition of UUC | Good |
| Cal. At | Mechanical Lab | Instrument Location | LABORATORY |


| | | | | | |
|-----------------------------|------|------------------------|------|-----------------------------------|-----------------|
| Environmental Condition | | | | Calibration Method Used | |
| Temperature (°C) | 23.8 | Humidity (%RH) | 56 | National / International Standard | ISO 8655-6:2002 |
| Atmospheric Pressure (mbar) | 1006 | Water Temperature (°C) | 21.6 | Cal Procedure No | SBS/CP/ML/08 |

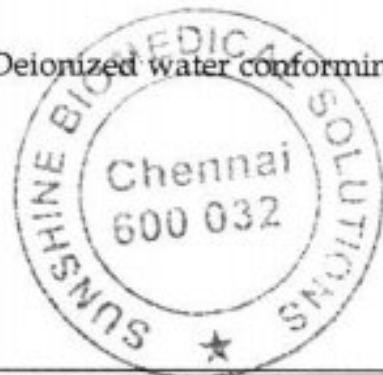
| | | | | | | |
|---------------|-----------------------------|------------------|--------------------|--------------|--------------------|------------|
| Standard Used | | | | | | |
| SI. No. | Description | ID.No. / SI. No. | Certificate No. | Make/Model | Traceability | Valid till |
| 1 | Electronic Weighing Balance | 15112918 | TVCSP22/12/2115-01 | A&D & GH-252 | National Standards | 09-12-2023 |


| 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 | 99.85 | 99.87 | 99.85 | 99.84 | 99.95 | 99.89 | -0.11 | 0.04 | 0.47 | |
| | | 99.89 | 99.95 | 99.90 | 99.87 | 99.90 | | | | | |
| 2 | 500 | 499.90 | 499.95 | 499.90 | 499.90 | 499.95 | 499.90 | -0.10 | 0.03 | 0.47 | |
| | | 499.89 | 499.88 | 499.85 | 499.85 | 499.90 | | | | | |
| 3 | 1000 | 999.89 | 999.88 | 999.89 | 999.87 | 999.90 | 999.91 | -0.09 | 0.03 | 0.47 | |
| | | 999.93 | 999.90 | 999.91 | 999.94 | 999.95 | | | | | |

Remarks

- This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- The user should determine the suitability of the instrument for its intended use.
- The recalibration interval should be determined on the user requirement.
- The results stated in this certificate relate only to the item calibrated.
- Equipment used for Calibration were calibrated & traceable to National & International Standards
- The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)
M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)
C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

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