



CALIBRATION CERTIFICATE

| | | | | |
|--|--------------------------------|---------------------|-------------------------|------------|
| CERTIFICATE NO: | SBS/CL/23/13472 | MECHANICAL | Page No:1 of 1 | |
| Issue Date | 07-10-2023 | | | |
| SRF No & Date | SRF/23/00757-0001 & 07-10-2023 | | | |
| Receipt Date | 07-10-2023 | | | |
| Calibration Date | 07-10-2023 | | | |
| Calibration Due | 06-10-2024 | | | |
| Customer Name & Address | | | | |
| GOVERNMENT PRIMARY HEALTH CENTRE, RAMESHWARAM, RAMANATHAPURAM DISTRICT. | | | | |
| Details of Device Under Calibration (DUC) | | | | |
| Description | CENTRIFUGE | Make & Model | REMI & C852 | |
| Range | 3500 RPM | Sr. No | ZGIN-18047 | |
| Resolution | 1 RPM | Identification No | NA | |
| DUC Condition | Satisfactory | Location | LABORATORY | |
| Environmental Conditions & Standard Operating Procedure Details | | | | |
| Environmental Details | Temperature: 24.3 °C | Relative Humidity | 54 % Rh | |
| Calibration Procedure No | SBS/CP/ML/04 | Calibration done at | ONSITE | |
| Reference Standards Details | | | | |
| S.No | Description | Make/ SI No: | Certificate No | Validity |
| 1 | Digital Tachometer | Lutron & DT-2238 | JRPM-CCTR-A&S-2022-0036 | 03-10-2023 |

CALIBRATION RESULTS

| S.No | DEVICE UNDER CALIBRATION READINGS | STANDARD INSTRUMENTS | DEVIATION | EXPANDED UNCERTAINTY (±) |
|------|-----------------------------------|----------------------|-----------|----------------------------|
| | RPM | RPM | RPM | % |
| 1 | 1000 | 999.9 | 0.1 | 4.2 |
| 2 | 2000 | 1999.8 | 0.2 | 4.2 |
| 3 | 3000 | 2999.7 | 0.3 | 4.2 |

REMARKS

- 1.This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
- 5.The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By


(Calibration Engineer)
P.PRASANNA



Authorised Signatory


 Quality Manager
(C.SIVABALAN) Chief Executive

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13473

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Customer Name & Address

| | | |
|--|--------------------------|-------------------|
| GOVERNMENT PRIMARY HEALTH CENTRE, RAMESHWARAM, RAMANATHAPURAM DISTRICT. | SRF No. | SRF/23/00757-0002 |
| | SRF Date | 07-10-2023 |
| | Date of Receipt | 06-10-2023 |
| | Date of Calibration | 07-10-2023 |
| | Due Date for Calibration | 06-10-2024 |
| | Issue Date | 07-10-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | MICRO PIPETTE | Make | THERMO SCIENTIFIC |
| Range | 10-100µl | Model | FINNPIPETTE F3 |
| Resolution | 0.2µl | Material | PVC |
| Serial Number | RW10677 | Operating Range | 10-100µl |
| ID Number | NA | Condition of UUC | Good |
| Cal. At | Mechanical Lab | Instrument Location | LABORATORY |

| Environmental Condition | | | | Calibration Method Used | |
|-----------------------------|------|------------------------|------|-----------------------------------|-----------------|
| Temperature (°C) | 23.6 | Humidity (%RH) | 54 | 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 | TVCSPL22/12/2115-01 | A&D & GH-252 | National Standards | 09-12-2023 |

Z Factor: 1.00319

| Result of Calibration in µl | | | | | | | | | | |
|-----------------------------|---------------|-------------------|-------|-------|-------|-------|------------|------------------|--------------|-----------------------------|
| SI. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
| 1 | 10.0 | 9.96 | 9.95 | 9.98 | 9.96 | 9.97 | 9.97 | -0.03 | 0.01 | 0.47 |
| | | 9.98 | 9.96 | 9.97 | 9.98 | 9.95 | | | | |
| 2 | 50.0 | 49.86 | 49.85 | 49.87 | 49.86 | 49.85 | 49.91 | -0.09 | 0.05 | 0.47 |
| | | 49.95 | 49.96 | 49.97 | 49.95 | 49.95 | | | | |
| 3 | 100.0 | 99.98 | 99.97 | 99.98 | 99.96 | 99.98 | 99.96 | -0.04 | 0.01 | 0.47 |
| | | 99.95 | 99.96 | 99.94 | 99.95 | 99.96 | | | | |

Remarks


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- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
5. Equipment used for Calibration were calibrated & traceable to National & International Standards
- 6.The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,


 (Calibration Engineer)
 M.MADHIBAN



Authorised by:


 (Quality Manager/Chief Executive)
 C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,
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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13474

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Customer Name & Address

| | | |
|--|--------------------------|-------------------|
| GOVERNMENT PRIMARY HEALTH CENTRE, RAMESHWARAM, RAMANATHAPURAM DISTRICT. | SRF No. | SRF/23/00757-0003 |
| | SRF Date | 07-10-2023 |
| | Date of Receipt | 06-10-2023 |
| | Date of Calibration | 07-10-2023 |
| | Due Date for Calibration | 06-10-2024 |
| | 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 | RW13607 | 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) | 23.5 | Humidity (%RH) | 52 | 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 | TVCSPL22/12/2115-01 | A&D & GH-252 | National Standards | 09-12-2023 |

Z Factor: 1.00319

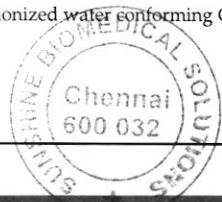
| Result of Calibration in µl | | | | | | | | | | |
|-----------------------------|---------------|-------------------|--------|--------|--------|--------|------------|------------------|--------------|-----------------------------|
| SI. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
| | | | | | | | | | | |
| 1 | 100 | 99.94 | 99.96 | 99.94 | 99.92 | 99.93 | 99.95 | -0.05 | 0.02 | 0.47 |
| | | 99.94 | 99.95 | 99.96 | 99.97 | 99.98 | | | | |
| 2 | 500 | 499.85 | 499.86 | 499.87 | 499.89 | 499.86 | 499.87 | -0.13 | 0.02 | 0.47 |
| | | 499.86 | 499.87 | 499.89 | 499.85 | 499.89 | | | | |
| 3 | 1000 | 999.96 | 999.97 | 999.98 | 999.96 | 999.95 | 999.96 | -0.04 | 0.01 | 0.47 |
| | | 999.98 | 999.94 | 999.96 | 999.95 | 999.95 | | | | |

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