

## CALIBRATION CERTIFICATE

|  |                                |                        |                         |            |
|--|--------------------------------|------------------------|-------------------------|------------|
| CERTIFICATE NO:  | SBS/CL/23/13326                | MECHANICAL             | Page No:1 of 1          |            |
| Issue Date   | 07-10-2023                     |                        |                         |            |
| SRF No & Date  | SRF/23/00723-0001 & 07-10-2023 |                        |                         |            |
| Receipt Date   | 07-10-2023                     |                        |                         |            |
| Calibration Date   | 07-10-2023                     |                        |                         |            |
| Calibration Due  | 06-10-2024                     |                        |                         |            |
| <b>Customer Name &amp; Address</b>   |                                |                        |                         |            |
| GOVERNMENT PRIMARY HEALTH CENTRE,<br>AYYARMALAI-639120,KARUR DISTRICT.     |                                |                        |                         |            |
| <b>Details of Device Under Calibration (DUC)</b>                           |                                |                        |                         |            |
| Description  | : CENTRIFUGE                   | Make & Model           | : REMI & NA             |            |
| Range  | : 5250 RPM                     | Sr. No                 | : ZIHN-31698            |            |
| Resolution   | : 10 RPM                       | Identification No      | : NA                    |            |
| DUC Condition  | : Satisfactory                 | Location               | : LABORATORY            |            |
| <b>Environmental Conditions &amp; Standard Operating Procedure Details</b> |                                |                        |                         |            |
| Environmental Details  | Temperature: 25.3°C            | Relative Humidity      | 55% Rh                  |            |
| Calibration Procedure No   | SBS/CP/ML/04                   | Calibration done at    | ONSITE                  |            |
| <b>Reference Standards Details</b>   |                                |                        |                         |            |
| S.No   | Description                    | Make/ SI No:           | Certificate No          | Validity   |
| 1  | Digital Tachometer             | LINE SEIKI / 175-0034V | JRPM-CCTR-A&S-2023-0013 | 09-06-2024 |


### CALIBRATION RESULTS

| S.No | DEVICE UNDER CALIBRATION | STANDARD INSTRUMENTS | DEVIATION | EXPANDED UNCERTAINTY |
|------|--------------------------|----------------------|-----------|----------------------|
|      | RPM                      | RPM                  | RPM       | %                    |
| 1    | 1000                     | 998.8                | 1.2       | 4.2                  |
| 2    | 2000                     | 1999.5               | 0.5       | 4.2                  |
| 3    | 3000                     | 2999.6               | 0.4       | 4.2                  |

### REMARKS

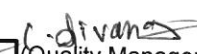
- 1.This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated 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)  
K.SATHYAMOORTHY



Authorised Signatory

  
 (Quality Manager)  (Chief Executive)  
(C.SIVABALAN)

## **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/23/13327  |                                  | MEDICAL DEVICES          |                | Page No:1 of 1 |
| Issue Date   | 07-10-2023                       |                          |                |                |
| SRF No & Date  | SRF/23/00723-0002 & 07-10-2023   |                          |                |                |
| Receipt Date   | 07-10-2023                       |                          |                |                |
| Calibration Date   | 07-10-2023                       |                          |                |                |
| Calibration Due  | 06-10-2024                       |                          |                |                |
| <b>Customer Name &amp; Address</b>                                     |                                  |                          |                |                |
| GOVERNMENT PRIMARY HEALTH CENTRE,<br>AYYARMALAI-639120,KARUR DISTRICT. |                                  |                          |                |                |
| <b>Details of Device Under Calibration (DUC)</b>                       |                                  |                          |                |                |
| Description  | : ELECTRICAL SAFETY (MICROSCOPE) | Make & Model             | : LABOMED & NA |                |
| Range  | : MULTI                          | Sr. No                   | : 190614743    |                |
| Resolution   | : MULTI                          | Identification No        | : NA           |                |
| DUC Condition  | : SATISFACTORY                   | Location                 | : LABORATORY   |                |
| <b>Environmental Conditions &amp; Calibration Procedure Details</b>    |                                  |                          |                |                |
| Environmental Details  | Temperature:25.6 ° C             | Relative Humidity        | 52% RH         |                |
| Calibration Procedure No   | SBS/CP/MD/29                     | Calibration done at      | ONSITE         |                |
| <b>Reference Standards Details</b>                                     |                                  |                          |                |                |
| S.No   | Description                      | Make/ SI No:             | Certificate No | Validity       |
| 1  | Electrical Safety Analyser       | Rigel Medical & 44L-1059 | M-230809-16-4  | 10-08-2024     |

### ELECTRICAL SAFETY

#### RESULTS


| S.no | SPECIFICATION          | MEASURED VALUES       | EXPANDED UNCERTAINTY (±) |
|------|------------------------|-----------------------|--------------------------|
| 1    | Insulation Resisitance | Measured values in MΩ | Uncertainty in % ( ± )   |
|      | >20MΩ                  | 99                    | 13.92                    |
| 2    | Earth Leakage          | Measured values in μA | Uncertainty in % ( ± )   |
|      | <5000μAfor B,BF,CF     | 166                   | 7.6                      |
| 3    | Enclosure Leakage      | Measured values in μA | Uncertainty in % ( ± )   |
|      | <500μAfor B,BF,CF      | 213                   | 7.3                      |

#### REMARKS

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- 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

Authorised Signatory

  
(Calibration Engineer)  
K.SATHYAMOORTHY

  
Technical Manager  
C.SHANMUGARAJ

Chief Executive



## 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/23/13328

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**Customer Name & Address**

|  |                          |                   |
|--|--------------------------|-------------------|
| GOVERNMENT PRIMARY HEALTH CENTRE,<br>AYYARMALAI-639120,KARUR DISTRICT. | SRF No.                  | SRF/23/00723-0003 |
|  | 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         | 10-100µl       | Model               | FINNPIPETTE F3    |
| Resolution    | 0.2µl          | Material            | PVC               |
| Serial Number | RW01282        | 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)            | 23.9 | Humidity (%RH)         | 55   | 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                 | 10.0  | 9.85  | 9.87  | 9.86  |            |                  |              |                             |
| 2                           | 50.0          | 49.82             | 49.97 | 49.82 | 49.81 | 49.82 | 49.85      | -0.15            | 0.05         | 0.47                        |
| 3                           | 100.0         | 99.91             | 99.92 | 99.92 | 99.93 | 99.94 | 99.92      | -0.08            | 0.01         | 0.47                        |

**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.ADHIBAN



Authorised by:

Quality Manager/Chief Executive  
 C.SIVABALAN

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13329

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Customer Name & Address

|   |                          |                   |
|---|--------------------------|-------------------|
| GOVERNMENT PRIMARY HEALTH CENTRE,<br>AYYARMALAI-639120, KARUR DISTRICT. | SRF No.                  | SRF/23/00723-0004 |
|   | 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 | RW02878        | 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)            | 23.9 | Humidity (%RH)         | 55   | 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

| Sl. 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

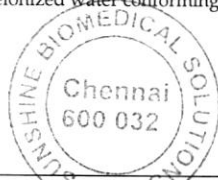
| Result of Calibration in µl |               |                   |        |        |        |        |            |                  |              |                             |
|-----------------------------|---------------|-------------------|--------|--------|--------|--------|------------|------------------|--------------|-----------------------------|
| Sl. No.                     | Nominal Value | Observed Readings |        |        |        |        | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|                             |               | 1                 | 100    | 99.95  | 99.96  | 99.94  |            |                  |              |                             |
| 2                           | 500           | 99.96             | 99.97  | 99.98  | 99.97  | 99.95  | 499.96     | -0.04            | 0.01         | 0.47                        |
| 3                           | 1000          | 499.95            | 499.96 | 499.95 | 499.96 | 499.97 | 999.97     | -0.03            | 0.01         | 0.47                        |

Remarks

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