

## CALIBRATION CERTIFICATE

|  |                                |                        |                         |            |
|--|--------------------------------|------------------------|-------------------------|------------|
| CERTIFICATE NO:  | SBS/CL/23/13426                | MECHANICAL             | Page No:1 of 1          |            |
| Issue Date   | 07-10-2023                     |                        |                         |            |
| SRF No & Date  | SRF/23/00746-0001 & 07-10-2023 |                        |                         |            |
| Receipt Date   | 07-10-2023                     |                        |                         |            |
| Calibration Date   | 07-10-2023                     |                        |                         |            |
| Calibration Due  | 06-10-2024                     |                        |                         |            |
| <u>Customer Name &amp; Address</u>   |                                |                        |                         |            |
| GOVERNMENT PRIMARY HEALTH CENTRE,<br>CHINNADHARAPURAM-639202,KARUR DISTRICT. |                                |                        |                         |            |
| <b>Details of Device Under Calibration (DUC)</b>                             |                                |                        |                         |            |
| Description  | CENTRIFUGE                     | Make & Model           | NA & NA                 |            |
| Range  | 3500 RPM                       | Sr. No                 | 9175                    |            |
| Resolution   | 1 RPM                          | Identification No      | NA                      |            |
| DUC Condition  | Satisfactory                   | Location               | LABORATORY              |            |
| <b>Environmental Conditions &amp; Standard Operating Procedure Details</b>   |                                |                        |                         |            |
| Environmental Details  | Temperature: 25.5°C            | Relative Humidity      | 52%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 |

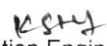
### CALIBRATION RESULTS

| S.No | DEVICE UNDER CALIBRATION | STANDARD INSTRUMENTS | DEVIATION | EXPANDED UNCERTAINTY |
|------|--------------------------|----------------------|-----------|----------------------|
|      | RPM                      | RPM                  | RPM       | %                    |
| 1    | 1000                     | 999.0                | 1.0       | 4.2                  |
| 2    | 2000                     | 1999.6               | 0.4       | 4.2                  |
| 3    | 3000                     | 2999.5               | 0.5       | 4.2                  |

### REMARKS

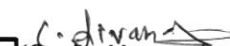
- 1.This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated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

|  |                                |                          |                |                       |
|--|--------------------------------|--------------------------|----------------|-----------------------|
| <b>CERTIFICATE NO: SBS/CL/23/13427</b>                                       |                                | <b>MEDICAL DEVICES</b>   |                | <b>Page No:1 of 1</b> |
| Issue Date   | 07-10-2023                     |                          |                |                       |
| SRF No & Date  | SRF/23/00746-0002 & 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>CHINNADHARAPURAM-639202,KARUR DISTRICT. |                                |                          |                |                       |
| <b>Details of Device Under Calibration (DUC)</b>                             |                                |                          |                |                       |
| Description  | ELECTRICAL SAFETY(MICROSCOPE)  | Make & Model             | LABOSCOPE & NA |                       |
| Range  | MULTI                          | Sr. No                   | 21882          |                       |
| 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    | <b>Insulation Resistance</b><br>>20MΩ         | Measured values in MΩ<br>83  | Uncertainty in % ( ± )<br>13.92 |
| 2    | <b>Earth Leakage</b><br><5000µAfor B,BF,CF    | Measured values in µA<br>171 | Uncertainty in % ( ± )<br>10.0  |
| 3    | <b>Enclosure Leakage</b><br><500µAfor B,BF,CF | Measured values in µA<br>222 | Uncertainty in % ( ± )<br>8.7   |

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- 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/23/13428 Page. No: 1 of 1

|  |                          |                   |
|--|--------------------------|-------------------|
| Customer Name & Address  |                          |                   |
| GOVERNMENT PRIMARY HEALTH CENTRE,<br>CHINNADHARAPURAM-639202,KARUR DISTRICT. | SRF No.                  | SRF/23/00746-0003 |
|  | 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 FISHER |
| Range                             | 10-100µl       | Model               | NA            |
| Resolution                        | 0.2µl          | Material            | PVC           |
| Serial Number                     | 111610722      | 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)            | 23.8 | 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    |

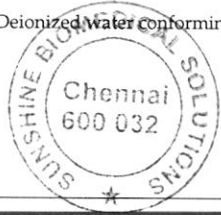
| Standard Used |                             |                  |                     |              |                    |            |
|---------------|-----------------------------|------------------|---------------------|--------------|--------------------|------------|
| SI. No.       | Description                 | ID.No. / SI. No. | Certificate No.     | Make/Model   | Traceability       | Valid till |
| 1             | Electronic Weighing Balance | 15112918         | 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                           | 10.0          | 9.84              | 9.87  | 9.86  | 9.85  | 9.82  | 9.85       | -0.15            | 0.02         | 0.47                        |  |
|                             |               | 9.86              | 9.89  | 9.82  | 9.88  | 9.84  |            |                  |              |                             |  |
| 2                           | 50.0          | 49.85             | 49.87 | 49.86 | 49.89 | 49.88 | 49.85      | -0.15            | 0.02         | 0.47                        |  |
|                             |               | 49.82             | 49.85 | 49.87 | 49.83 | 49.82 |            |                  |              |                             |  |
| 3                           | 100.0         | 99.85             | 99.87 | 99.85 | 99.84 | 99.86 | 99.87      | -0.13            | 0.02         | 0.47                        |  |
|                             |               | 99.89             | 99.87 | 99.89 | 99.87 | 99.90 |            |                  |              |                             |  |

**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. 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.RAGUL



Authorised by:  
  
(Quality Manager/Chief Executive)  
C.SIVABALAN

### SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13429

Page. No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
CHINNADHARAPURAM-639202,KARUR DISTRICT.

|                          |                   |
|--------------------------|-------------------|
| SRF No.                  | SRF/23/00746-0004 |
| 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 FISHER |
| Range         | 100-1000µl     | Model               | NA            |
| Resolution    | 1µl            | Material            | PVC           |
| Serial Number | 111610105      | 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)         | 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         | TVCSP122/12/2115-01 | A&D & GH-252 | National Standards | 09-12-2023 |

Z Factor: 1.00319

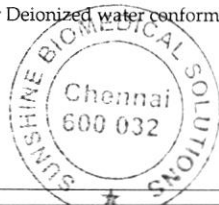
| Result of Calibration in µl |               |                   |        |        |        |        |            |                  |              |                             |  |
|-----------------------------|---------------|-------------------|--------|--------|--------|--------|------------|------------------|--------------|-----------------------------|--|
| 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 |            |                  |              |                             |  |

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