

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12129

Page No: 1 of 1

Customer Name & Address

| | | |
|---|--------------------------|-------------------|
| GOVERNMENT PRIMARY HEALTH CENTRE, KULLAMPALAYAM-638701, TIRUPPUR DISTRICT. | SRF No. | SRF/23/00463-0003 |
| | SRF Date | 30-09-2023 |
| | Date of Receipt | 28-09-2023 |
| | Date of Calibration | 30-09-2023 |
| | Due Date for Calibration | 29-09-2024 |
| | Issue Date | 01-10-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|------------|
| Description | MICRO PIPETTE | Make | MICROLUX |
| Range | 100-1000µl | Model | NA |
| Resolution | 10µl | 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) | 23.9 | 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 | 100 | 99.94 | 99.95 | 99.96 | 99.97 | 99.95 | 99.94 | -0.06 | 0.02 | 0.47 |
| | | 99.93 | 99.92 | 99.91 | 99.92 | 99.91 | | | | |
| 2 | 500 | 499.96 | 499.97 | 499.95 | 499.96 | 499.95 | 499.96 | -0.04 | 0.02 | 0.47 |
| | | 499.97 | 499.92 | 499.95 | 499.98 | 499.96 | | | | |
| 3 | 1000 | 999.95 | 999.97 | 999.98 | 999.97 | 999.98 | 999.95 | -0.05 | 0.02 | 0.47 |
| | | 999.94 | 999.92 | 999.93 | 999.95 | 999.94 | | | | |

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. 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,
M. Adhiban
(Calibration Engineer)
M.ADHIBAN



Authorised by:
C. Sivabalan
(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/23/12130

Page No: 1 of 1

Customer Name & Address

| | | |
|---|--------------------------|-------------------|
| GOVERNMENT PRIMARY HEALTH CENTRE, KULLAMPALAYAM-638701, TIRUPPUR DISTRICT. | SRF No. | SRF/23/00463-0004 |
| | SRF Date | 30-09-2023 |
| | Date of Receipt | 28-09-2023 |
| | Date of Calibration | 30-09-2023 |
| | Due Date for Calibration | 29-09-2024 |
| | Issue Date | 01-10-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | MICRO PIPETTE | Make | THERMO SCIENTIFIC |
| Range | 10-100µl | Model | FINNPIPETTE F3 |
| Resolution | 0.2µl | Material | PVC |
| Serial Number | RW10863 | 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 | TVCSPL22/12/2115-01 | A&D & GH-252 | National Standards | 09-12-2023 |

Z Factor: 1.00319

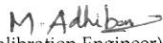
Result of Calibration in µl

| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|---------|---------------|-------------------|-------|-------|-------|-------|------------|------------------|--------------|-----------------------------|
| | | | | | | | | | | |
| 1 | 10.0 | 9.85 | 9.86 | 9.87 | 9.88 | 9.87 | 9.85 | -0.15 | 0.02 | 0.47 |
| | | 9.84 | 9.86 | 9.83 | 9.82 | 9.83 | | | | |
| 2 | 50.0 | 49.86 | 49.87 | 49.83 | 49.82 | 49.81 | 49.85 | -0.15 | 0.02 | 0.47 |
| | | 49.87 | 49.86 | 49.86 | 49.87 | 49.85 | | | | |
| 3 | 100.0 | 99.85 | 99.86 | 99.87 | 99.88 | 99.87 | 99.86 | -0.14 | 0.02 | 0.47 |
| | | 99.83 | 99.86 | 99.87 | 99.82 | 99.86 | | | | |

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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.ADHIBAN



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/23/12131 Page. No: 1 of 1

| | | | |
|---|--|--------------------------|-------------------|
| Customer Name & Address | | SRF No. | SRF/23/00463-0005 |
| GOVERNMENT PRIMARY HEALTH CENTRE, KULLAMPALAYAM-638701, TIRUPPUR DISTRICT. | | SRF Date | 30-09-2023 |
| | | Date of Receipt | 28-09-2023 |
| | | Date of Calibration | 30-09-2023 |
| | | Due Date for Calibration | 29-09-2024 |
| | | Issue Date | 01-10-2023 |

| Details of Unit Under Calibration | | | |
|-----------------------------------|----------------|---------------------|-------------------|
| Description | MICRO PIPETTE | Make | THERMO SCIENTIFIC |
| Range | 100-1000µl | Model | FINNPIPETTE F3 |
| Resolution | 1µl | Material | PVC |
| Serial Number | RW13828 | 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 | 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 | 99.87 | 99.87 | 99.86 | 99.85 | 99.85 | 99.86 | -0.14 | 0.02 | 0.47 | |
| | | 99.89 | 99.87 | 99.85 | 99.87 | 99.82 | | | | | |
| 2 | 500 | 499.85 | 499.86 | 499.87 | 499.86 | 499.82 | 499.85 | -0.15 | 0.02 | 0.47 | |
| | | 499.82 | 499.83 | 499.85 | 499.86 | 499.86 | | | | | |
| 3 | 1000 | 999.85 | 999.86 | 999.87 | 999.86 | 999.87 | 999.86 | -0.14 | 0.01 | 0.47 | |
| | | 999.86 | 999.85 | 999.84 | 999.86 | 999.87 | | | | | |

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Calibrated By,

M. Adhiban
(Calibration Engineer)
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