



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/11812

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PUNNAI-631001,VELLORE DISTRICT.

| | |
|--------------------------|-------------------|
| SRF No. | SRF/23/00425-0001 |
| SRF Date | 27-09-2023 |
| Date of Receipt | 25-09-2023 |
| Date of Calibration | 27-09-2023 |
| Due Date for Calibration | 26-09-2024 |
| Issue Date | 28-09-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | Micro Pipette | Make | THERMO SCIENTIFIC |
| Range | 10-100µl | Model | FINNPIPETTE F3 |
| Resolution | 0.2µl | Material | PVC |
| Serial Number | QW10103 | 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) | 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

| Sl. No. | Description | ID.No. / Sl. 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

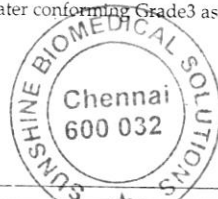
| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|---------|---------------|-------------------|-------|-------|-------|-------|------------|------------------|--------------|-----------------------------|
| | | | | | | | | | | |
| 1 | 10.0 | 9.95 | 9.97 | 9.94 | 9.96 | 9.98 | 9.95 | -0.05 | 0.02 | 0.47 |
| | | 9.94 | 9.95 | 9.93 | 9.97 | 9.93 | | | | |
| 2 | 50.0 | 49.86 | 49.87 | 49.85 | 49.88 | 49.89 | 49.89 | -0.11 | 0.03 | 0.47 |
| | | 49.90 | 49.91 | 49.93 | 49.92 | 49.87 | | | | |
| 3 | 100.0 | 99.85 | 99.85 | 99.85 | 99.85 | 99.95 | 99.89 | -0.11 | 0.04 | 0.47 |
| | | 99.89 | 99.95 | 99.90 | 99.87 | 99.90 | | | | |

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/23/11813

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PUNNAI-631001,VELLORE DISTRICT.

| | |
|--------------------------|-------------------|
| SRF No. | SRF/23/00426-0002 |
| SRF Date | 27-09-2023 |
| Date of Receipt | 25-09-2023 |
| Date of Calibration | 27-09-2023 |
| Due Date for Calibration | 26-09-2024 |
| Issue Date | 28-09-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | Micro Pipette | Make | THERMO SCIENTIFIC |
| Range | 100-1000µl | Model | FINNPIPETTE F3 |
| Resolution | 1µl | Material | PVC |
| Serial Number | QW10277 | 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) | 23.6 | Humidity (%RH) | 58 | 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 | 99.92 | 99.94 | 99.97 | 99.93 | 99.96 | 99.92 | -0.08 | 0.03 | 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 | 999.87 | -0.13 | 0.02 | 0.47 |
| | | 999.85 | 999.84 | 999.88 | 999.86 | 999.87 | | | | |

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,

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.