



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12741

Page. No: 1 of 1

Customer Name & Address

| | | |
|---|---|---|
| GOVERNMENT PRIMARY HEALTH CENTRE, DADHAPURAM-604307,VILLUPURAM DISTRICT. | SRF No. SRF Date Date of Receipt Date of Calibration Due Date for Calibration Issue Date | SRF/23/00596-0001 04-10-2023 04-10-2023 04-10-2023 03-10-2024 05-10-2023 |
|---|---|---|

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | MICRO PIPETTE | Make | THERMO SCIENTIFIC |
| Range | 100-1000µl | Model | FINNPIPETTE F3 |
| Resolution | 1µl | Material | PVC |
| Serial Number | RW09015 | 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

| 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

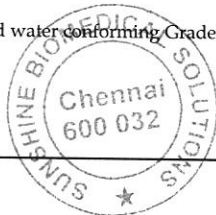
| Result of Calibration in µl | | | | | | | | | | |
|-----------------------------|---------------|-------------------|--------|--------|--------|--------|------------|------------------|--------------|-----------------------------|
| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
| 1 | 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 | | | | |

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,


 (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,
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12742

Page. No: 1 of 1

Customer Name & Address

| | | |
|---|---|---|
| GOVERNMENT PRIMARY HEALTH CENTRE, DADHAPURAM-604307,VILLUPURAM DISTRICT. | SRF No. SRF Date Date of Receipt Date of Calibration Due Date for Calibration Issue Date | SRF/23/00596-0002 04-10-2023 04-10-2023 04-10-2023 03-10-2024 05-10-2023 |
|---|---|---|

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|------------|
| Description | MICRO PIPETTE | Make | DRAGON LAB |
| Range | 100-1000µl | Model | NA |
| Resolution | 5µl | Material | PVC |
| Serial Number | YE17CAG0140070 | 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

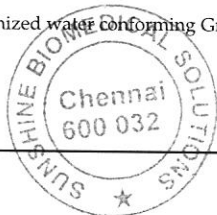
| SI. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|---------|---------------|-------------------|--------|--------|--------|--------|------------|------------------|--------------|-----------------------------|
| | | | | | | | | | | |
| 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 | 999.79 | 999.78 | 999.76 | 999.79 | 999.78 | 999.78 | -0.22 | 0.01 | 0.47 |
| | | 999.78 | 999.79 | 999.76 | 999.78 | 999.79 | | | | |

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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,
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12743

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
DADHAPURAM-604307,VILLUPURAM DISTRICT.

| | |
|--------------------------|-------------------|
| SRF No. | SRF/23/00596-0003 |
| SRF Date | 04-10-2023 |
| Date of Receipt | 04-10-2023 |
| Date of Calibration | 04-10-2023 |
| Due Date for Calibration | 03-10-2024 |
| Issue Date | 05-10-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|--------------|
| Description | MICRO PIPETTE | Make | RIGHT Q PLUS |
| Range | 10-100µl | Model | NA |
| Resolution | 1µl | Material | PVC |
| Serial Number | NA | Operating Range | 10-100µl |
| ID Number | NA | Condition of UUC | Good |
| Cal. At | Mechanical Lab | Instrument Location | LABORATORY |

Environmental Condition

| | | | |
|-----------------------------|------|------------------------|------|
| Temperature (°C) | 23.6 | Humidity (%RH) | 54 |
| Atmospheric Pressure (mbar) | 1006 | Water Temperature (°C) | 21.6 |

Calibration Method Used

| | |
|-----------------------------------|-----------------|
| National / International Standard | ISO 8655-6:2002 |
| 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

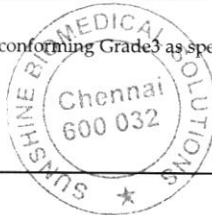
| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|---------|---------------|-------------------|-------|-------|-------|-------|------------|------------------|--------------|-----------------------------|
| | | | | | | | | | | |
| 1 | 10 | 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 | 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 | 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 | | | | |

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