



CALIBRATION CERTIFICATE

| | | | |
|------------------------|--------------------------------|-------------------|----------------|
| CERTIFICATE NO: | SBS/CL/23/14302 | MECHANICAL | Page No:1 of 1 |
| Issue Date | 12-10-2023 | | |
| SRF No & Date | SRF/23/00671-0001 & 11-10-2023 | | |
| Receipt Date | 11-10-2023 | | |
| Calibration Date | 11-10-2023 | | |
| Calibration Due | 10-10-2024 | | |

Customer Name & Address
 GOVERNMENT PRIMARY HEALTH CENTRE,
 KALLAKUDI-621652,TRICHY DISTRICT.

| Details of Device Under Calibration (DUC) | | | |
|---|--------------|-------------------|---------------------------|
| Description | CENTRIFUGE | Make & Model | B.D INSTRUMENTS & BDI-152 |
| Range | 3500 RPM | Sr. No | NA |
| Resolution | 1 RPM | Identification No | NA |
| DUC Condition | Satisfactory | Location | LABORATORY |

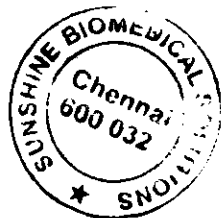
| Environmental Conditions & Standard Operating Procedure Details | | | |
|---|----------------------|---------------------|--------|
| Environmental Details | Temperature: 25.6 °C | Relative Humidity | 57% Rh |
| Calibration Procedure No | SBS/CP/ML/04 | Calibration done at | ONSITE |

| Reference Standards Details | | | | |
|-----------------------------|--------------------|------------------------|-------------------------|------------|
| 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 | 999.8 | 0.2 | 4.2 |
| 2 | 2000 | 1999.7 | 0.3 | 4.2 |
| 3 | 3000 | 2999.7 | 0.3 | 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
K. Sathyamoorthy
 (Calibration Engineer)
 K.SATHYAMOORTHY



Authorised Signatory

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/23/14303 | | MEDICAL DEVICES | | Page No:1 of 1 |
| Issue Date | 12-10-2023 | | | |
| SRF No & Date | SRF/23/00671-0002 & 11-10-2023 | | | |
| Receipt Date | 11-10-2023 | | | |
| Calibration Date | 11-10-2023 | | | |
| Calibration Due | 10-10-2024 | | | |
| Customer Name & Address | | | | |
| GOVERNMENT PRIMARY HEALTH CENTRE, KALLAKUDI-621652, TRICHY DISTRICT. | | | | |
| Details of Device Under Calibration (DUC) | | | | |
| Description | : SEMI AUTO ANALYZER | Make & Model | : ALPHA & ALPHA CHEM100 | |
| Range | : MULTI | Sr. No | : BCAA18053031 | |
| Resolution | : MULTI | Identification No | : NA | |
| DUC Condition | : SATISFACTORY | Location | : LABORATORY | |
| Environmental Conditions & Calibration Procedure Details | | | | |
| Environmental Details | Temperature:25.6 ° C | Relative Humidity | 52% RH | |
| Calibration Procedure No | SBS/CP/MD/20 | Calibration done at | ONSITE | |
| Reference Standards Details | | | | |
| 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

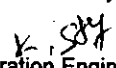
RESULTS

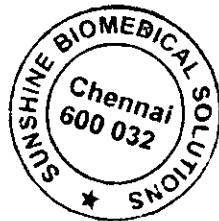
| S.no | SPECIFICATION | MEASURED VALUES | EXPANDED UNCERTAINTY (±) |
|------|--|------------------------------|---------------------------------|
| 1 | Insulation Resistance >20MΩ | Measured values in MΩ 86 | Uncertainty in % (±) 13.92 |
| 2 | Earth Leakage <5000µAfor B,BF,CF | Measured values in µA 178 | Uncertainty in % (±) 7.5 |
| 3 | Enclosure Leakage <500µAfor B,BF,CF | Measured values in µA 224 | Uncertainty in % (±) 7.2 |

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


(Calibration Engineer)
K.SATHYAMOORTHY



Authorised Signatory


 Technical Manager
C.SHANMUGARAJ

Chief Executive

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/23/14304

Page. No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
KALLAKUDI-621652, TRICHY DISTRICT.

| | |
|--------------------------|-------------------|
| SRF No. | SRF/23/00671-0003 |
| SRF Date | 11-10-2023 |
| Date of Receipt | 11-10-2023 |
| Date of Calibration | 11-10-2023 |
| Due Date for Calibration | 10-10-2024 |
| Issue Date | 12-10-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | Micro Pipette | Make | THERMO SCIENTIFIC |
| Range | 10-100µl | Model | FINNPIPETTE F3 |
| Resolution | 0.2µl | Material | PVC |
| Serial Number | RW09584 | Operating Range | 10-100µl |
| ID Number | NA | Condition of UUC | Good |
| Cal. At | Mechanical Lab | Instrument Location | LAB |

Environmental Condition

Calibration Method Used

| | | | | | |
|-----------------------------|------|------------------------|------|-----------------------------------|-----------------|
| Temperature (°C) | 23.8 | 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

| 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

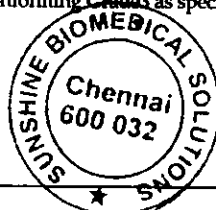
| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|---------|---------------|-------------------|-------|-------|-------|-------|------------|------------------|--------------|-----------------------------|
| | | | | | | | | | | |
| 1 | 10.0 | 9.98 | 9.97 | 9.95 | 9.97 | 9.96 | 9.97 | -0.03 | 0.01 | 0.47 |
| | | 9.98 | 9.97 | 9.96 | 9.97 | 9.96 | | | | |
| 2 | 50.0 | 49.97 | 49.96 | 49.85 | 49.86 | 49.89 | 49.88 | -0.12 | 0.05 | 0.47 |
| | | 49.89 | 49.88 | 49.85 | 49.86 | 49.82 | | | | |
| 3 | 100.0 | 99.98 | 99.97 | 99.96 | 99.94 | 99.95 | 99.96 | -0.04 | 0.02 | 0.47 |
| | | 99.98 | 99.96 | 99.95 | 99.92 | 99.97 | | | | |

Remarks

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- 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 Grade 3 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,
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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14305

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
KALLAKUDI-621652,TRICHY DISTRICT.

| | |
|--------------------------|-------------------|
| SRF No. | SRF/23/00671-0004 |
| SRF Date | 11-10-2023 |
| Date of Receipt | 11-10-2023 |
| Date of Calibration | 11-10-2023 |
| Due Date for Calibration | 10-10-2024 |
| Issue Date | 12-10-2023 |

Details of Unit Under Calibration

| | | | |
|---------------|----------------|---------------------|-------------------|
| Description | Micro Pipette | Make | THERMO SCIENTIFIC |
| Range | 100-1000µl | Model | FINNPIPETTE F3 |
| Resolution | 1µl | Material | PVC |
| Serial Number | RW11862 | Operating Range | 10-100µl |
| ID Number | NA | Condition of UUC | Good |
| Cal. At | Mechanical Lab | Instrument Location | LAB |

| Environmental Condition | | | | Calibration Method Used | |
|-----------------------------|------|------------------------|------|-----------------------------------|-----------------|
| Temperature (°C) | 23.8 | 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

| 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

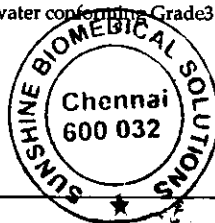
| Sl. No. | Nominal Value | Observed Readings | | | | | Mean Value | Systematic Error | Random Error | Measurement Uncertainty (±) |
|---------|---------------|-------------------|--------|--------|--------|--------|------------|------------------|--------------|-----------------------------|
| | | | | | | | | | | |
| 1 | 100 | 99.99 | 99.96 | 99.94 | 99.98 | 99.97 | 99.96 | -0.04 | 0.02 | 0.47 |
| | | 99.93 | 99.95 | 99.94 | 99.98 | 99.97 | | | | |
| 2 | 500 | 499.83 | 499.87 | 499.83 | 499.82 | 499.82 | 499.84 | -0.16 | 0.03 | 0.47 |
| | | 499.80 | 499.80 | 499.85 | 499.85 | 499.90 | | | | |
| 3 | 1000 | 999.88 | 999.87 | 999.89 | 999.88 | 999.87 | 999.90 | -0.10 | 0.02 | 0.47 |
| | | 999.90 | 999.90 | 999.91 | 999.92 | 999.95 | | | | |

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- 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

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