



## CALIBRATION CERTIFICATE


CERTIFICATE NO:	SBS/CL/23/13867	MECHANICAL	Page No:1 of 1	
Issue Date	15-09-2023			
SRF No & Date	SRF/23/00829-0001 & 14-09-2023			
Receipt Date	14-09-2023			
Calibration Date	14-09-2023			
Calibration Due	13-09-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT PRIMARY HEALTH CENTRE, KATTUKOTTAI-636453,SALEM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: CENTRIFUGE	Make & Model	: B.D INSTRUMENTATIONS & BDI-	
Range	: 3500 RPM	Sr. No	: NA	
Resolution	: 1 RPM	Identification No	: NA	
DUC Condition	: Satisfactory	Location	: LABORATORY	
<b>Environmental Conditions &amp; Standard Operating Procedure Details</b>				
Environmental Details	Temperature: 25.6 °C	Relative Humidity	57% 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

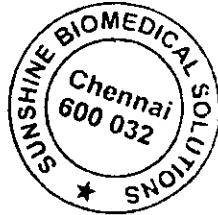
### **CALIBRATION RESULTS**


S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY ( ± )
	RPM	RPM	RPM	%
1	1000	999.7	0.3	4.2
2	2000	1999.5	0.5	4.2
3	3500	3499.4	0.6	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)  
P.PRASANNA



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

CERTIFICATE NO: SBS/CL/23/13868	MEDICAL DEVICES	Page No:1 of 1
Issue Date	15-09-2023	
SRF No & Date	SRF/23/00829-0002 & 14-09-2023	
Receipt Date	14-09-2023	
Calibration Date	14-09-2023	
Calibration Due	13-09-2024	

### Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
KATTUKOTTAI-636453, SALEM DISTRICT.

### Details of Device Under Calibration (DUC)

Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH
Range	: MULTI	Sr. No	: AT1400211RBK
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

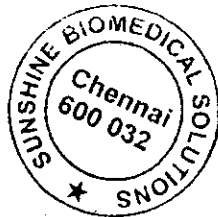
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resitance >20MΩ	Measured values in MΩ 99	Uncertainty in % ( ± ) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 166	Uncertainty in % ( ± ) 7.6
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 226	Uncertainty in % ( ± ) 7.2

#### REMARKS

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- The recalibration interval should be determined on the user requirement.
- The results stated in this certificate relate only to the item calibrated.
- The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
- Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

  
(Calibration Engineer)  
P.PRASANNA



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,  
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## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13869	THERMAL	Page No:1 of 1
Issue Date	15-09-2023		
SRF No & Date	SRF/23/00829-0003 & 14-09-2023		
Receipt Date	14-09-2023		
Calibration Date	14-09-2023		
Calibration Due	13-09-2024		
<b>Customer Name &amp; Address</b>			
GOVERNMENT PRIMARY HEALTH CENTRE, KATTUKOTTAI-636453,SALEM DISTRICT.			
<b>Details of Device Under Calibration (DUC)</b>			
Description	TEMPERATURE INDICATOR WITH SENSOR OF (REFRIGERATOR)	Make & Model	LG & GL/1950MGE4/2014
Range	2-8 °C	Sr. No	NA
Resolution	0.1 °C	Identification No	NA
DUC Condition	Satisfactory	Location	LABORATORY
<b>Environmental Conditions &amp; Calibration Procedure Details</b>			
Environmental Details	Temperature: 25.8°C	Relative Humidity	54% Rh
Calibration Procedure No	SBS/CP/TH/04	Calibration done at	ONSITE
<b>Reference Standards Details</b>			
S.No	Description	Make/ SI No:	Certificate No
1	RTD Sensor with paperless Recorder	Tempsens & Tempsens / TD09200218	TMS/22/62 01
			Validity
			10-11-2023

### CALIBRATION RESULTS

S.No.	DEVICE UNDER CALIBRATION READINGS	STANDARD INSTRUMENTS READINGS	DEVIATION	EXPANDED UNCERTAINTY (±)
	°C	°C	°C	°C
1	2.0	1.7	0.3	0.62
2	5.0	4.8	0.2	0.62
3	8.0	7.9	0.1	0.62

### 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
7. Temperature Scale:International Temperature Scale,1990(ITS-90)

Calibrated By

  
(Calibration Engineer)  
P.PRASANNA



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,  
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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13870 Page No: 1 of 1

Customer Name & Address  GOVERNMENT PRIMARY HEALTH CENTRE, KATTUKOTTAI-636453,SALEM DISTRICT.	SRF No. SRF Date Date of Receipt Date of Calibration Due Date for Calibration Issue Date	SRF/23/00829-0004 14-09-2023 13-09-2023 14-09-2023 13-09-2024 15-09-2023
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Details of Unit Under Calibration			
Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW11522	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)	23.2	Humidity (%RH)	53	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

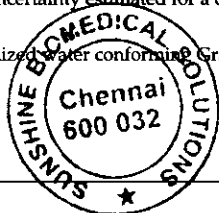
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.94	99.95	99.92	99.96	99.94	99.94	-0.06	0.02	0.47	
		99.91	99.92	99.94	99.95	99.96					
2	500	499.85	499.87	499.88	499.87	499.89	499.88	-0.12	0.01	0.47	
		499.87	499.89	499.90	499.88	499.89					
3	1000	999.99	999.98	999.97	999.96	999.95	999.95	-0.05	0.03	0.47	
		999.95	999.90	999.91	999.94	999.95					

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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

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/23/13871

Page No : 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
KATTUKOTTAI-636453,SALEM DISTRICT.

SRF No.	SRF/23/00829-0005
SRF Date	14-09-2023
Date of Receipt	13-09-2023
Date of Calibration	14-09-2023
Due Date for Calibration	13-09-2024
Issue Date	15-09-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW09120	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)	23.2	Humidity (%RH)	53	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**

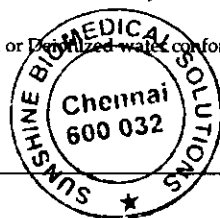
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.87	9.86	9.88	9.88	9.88	9.87	-0.13	0.01	0.47	
		9.88	9.88	9.87	9.86	9.87					
2	50.0	49.80	49.80	49.82	49.81	49.85	49.81	-0.19	0.02	0.47	
		49.82	49.80	49.82	49.82	49.78					
3	100.0	99.84	99.86	99.87	99.87	99.88	99.87	-0.13	0.01	0.47	
		99.87	99.88	99.86	99.87	99.88					

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- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

  
(Calibration Engineer)  
M.RAGUL



Authorized by:

  
Quality Manager/Chief Executive  
C.SIVABALAN

## SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13872

Page. No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, KATTUKOTTAI-636453, SALEM DISTRICT.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SRF No.</td> <td>SRF/23/00829-0006</td> </tr> <tr> <td>SRF Date</td> <td>14-09-2023</td> </tr> <tr> <td>Date of Receipt</td> <td>13-09-2023</td> </tr> <tr> <td>Date of Calibration</td> <td>14-09-2023</td> </tr> <tr> <td>Due Date for Calibration</td> <td>13-09-2024</td> </tr> <tr> <td>Issue Date</td> <td>15-09-2023</td> </tr> </table>	SRF No.	SRF/23/00829-0006	SRF Date	14-09-2023	Date of Receipt	13-09-2023	Date of Calibration	14-09-2023	Due Date for Calibration	13-09-2024	Issue Date	15-09-2023
SRF No.	SRF/23/00829-0006												
SRF Date	14-09-2023												
Date of Receipt	13-09-2023												
Date of Calibration	14-09-2023												
Due Date for Calibration	13-09-2024												
Issue Date	15-09-2023												

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROLUX
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				Calibration Method Used	
Temperature (°C)	23.2	Humidity (%RH)	53	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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

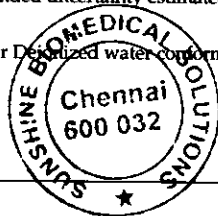
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.95	9.96	9.94	9.93	9.92	9.94	-0.06	0.01	0.47
		9.95	9.94	9.96	9.94	9.95				
2	50	49.95	49.96	49.97	49.98	49.98	49.97	-0.03	0.01	0.47
		49.97	49.98	49.96	49.97	49.98				
3	100	99.96	99.95	99.97	99.98	99.96	99.96	-0.04	0.01	0.47
		99.96	99.97	99.96	99.95	99.94				

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Calibrated By,

(Calibration Engineer)  
 M.RAGUL



Authorised by:

(Quality Manager/Cert Executive)  
 C.SIVABALAN

## SUNSHINE BIOMEDICAL SOLUTIONS

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