



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/14620</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	14-10-2023			
SRF No & Date	SRF/23/00884-0001 & 13-10-2023			
Receipt Date	13-10-2023			
Calibration Date	13-10-2023			
Calibration Due	12-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, MATHIGIRI-635110, KRISHNAGIRI DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH	
Range	: MULTI	Sr. No	: ATCD2310818RBK	
Resolution	: MULTI	Identification No	: NA	
DUC Condition	: SATISFACTORY	Location	: LABORATORY	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature: 25.3°C	Relative Humidity	56% RH	
Calibration Procedure No	SBS/CP/MD/20	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
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	<b>Insulation Resistance</b> >20MΩ	<b>Measured values in MΩ</b> 70	<b>Uncertainty in % (±)</b> 13.92
2	<b>Earth Leakage</b> <5000µA for B, BF, CF	<b>Measured values in µA</b> 126	<b>Uncertainty in % (±)</b> 8.1
3	<b>Enclosure Leakage</b> <500µA for B, BF, CF	<b>Measured values in µA</b> 194	<b>Uncertainty in % (±)</b> 7.4

#### 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

Authorised Signatory

  
(Calibration Engineer)  
E.ESWAR



  
 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/23/14621	MECHANICAL	Page No:1 of 1	
Issue Date	14-10-2023			
SRF No & Date	SRF/23/00884-0002 & 13-10-2023			
Receipt Date	13-10-2023			
Calibration Date	13-10-2023			
Calibration Due	12-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, MATHIGIRI-635110, KRISHNAGIRI DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: CENTRIFUGE	Make & Model	: SS ENTERPRISES & NA	
Range	: 3500 RPM	Sr. No	: 9035	
Resolution	: 1 RPM	Identification No	: NA	
DUC Condition	: Satisfactory	Location	: LABORATORY	
<b>Environmental Conditions &amp; Standard Operating Procedure Details</b>				
Environmental Details	Temperature: 25.4°C	Relative Humidity	54% 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

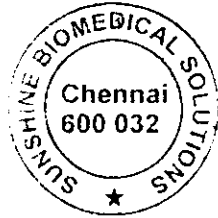
S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.6	1.4	4.2
2	2000	1999.8	0.2	4.2
3	3000	2998.7	1.3	4.2

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6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

  
(Calibration Engineer)  
E.ESWAR



Authorised Signatory

 Quality Manager  
(C.SIVABALAN)  Chief Executive

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## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/14622</b>	<b>MEDICAL DEVICES</b>	<b>Page No:1 of 1</b>
Issue Date	14-10-2023	
SRF No & Date	SRF/23/00884-0003 & 13-10-2023	
Receipt Date	13-10-2023	
Calibration Date	13-10-2023	
Calibration Due	12-10-2024	

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE,  
MATHIGIRI-6351 10, KRISHNAGIRI DISTRICT.

**Details of Device Under Calibration (DUC)**

Description : ELECTRICAL SAFETY(MICROSCOPE)	Make & Model : COSLAB & NA
Range : MULTI	Sr. No : STD-9
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/29	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	<b>Insulation Resistance</b> >20MΩ	<b>Measured values in MΩ</b> 100	<b>Uncertainty in % ( ± )</b> 13.92
2	<b>Earth Leakage</b> <5000µAfor B,BF,CF	<b>Measured values in µA</b> 164	<b>Uncertainty in % ( ± )</b> 7.6
3	<b>Enclosure Leakage</b> <500µAfor B,BF,CF	<b>Measured values in µA</b> 234	<b>Uncertainty in % ( ± )</b> 7.2

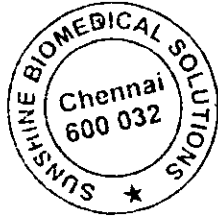
**REMARKS**

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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

Authorised Signatory

  
(Calibration Engineer)  
E.ESWAR



  
Technical Manager  
C.SHANMUGARAJ

Chief Executive

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14623

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE, MATHIGIRI-635110, KRISHNAGIRI DISTRICT.	SRF No.	SRF/23/00884-0004
	SRF Date	13-10-2023
	Date of Receipt	12-10-2023
	Date of Calibration	13-10-2023
	Due Date for Calibration	12-10-2024
	Issue Date	14-10-2023

**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)	23.8	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

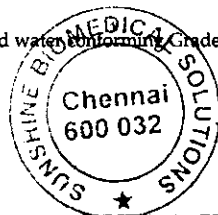
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
		1	100	99.48	99.46	99.47				
2	500	500.20	500.22	500.24	500.26	500.28	500.25	0.25	0.02	0.47
3	1000	1000.30	1000.32	1000.34	1000.36	1000.36	1000.37	0.37	0.04	0.47

**Remarks**

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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. Madhiban*  
(Calibration Engineer)  
M.ADHIBAN



Authorised by:

*C. Sivabalan*  
(Quality Manager/Chief Executive)  
C.SIVABALAN

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14624

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE, MATHIGIRI-635110, KRISHNAGIRI DISTRICT.	SRF No.	SRF/23/00884-0005
	SRF Date	13-10-2023
	Date of Receipt	12-10-2023
	Date of Calibration	13-10-2023
	Due Date for Calibration	12-10-2024
	Issue Date	14-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	MICROLUX
Range	5-50µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	10-50µl
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)	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	TVCSP122/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

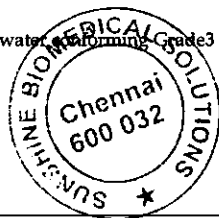
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.87	9.86	9.87	9.87	9.88	9.87	-0.13	0.01	0.47
		9.88	9.86	9.87	9.88	9.89				
2	30	29.76	29.77	29.78	29.79	29.76	29.78	-0.22	0.01	0.47
		29.77	29.78	29.79	29.78	29.78				
3	50	49.88	49.87	49.88	49.87	49.88	49.87	-0.13	0.01	0.47
		49.87	49.86	49.86	49.87	49.88				

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Calibrated By,

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



Authorised by:

*C. SIVABALAN*  
(Quality Manager/Chief Executive)  
C.SIVABALAN

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