



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/13965</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	10-10-2023			
SRF No & Date	SRF/23/00845-0001 & 09-10-2023			
Receipt Date	09-10-2023			
Calibration Date	09-10-2023			
Calibration Due	08-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, PILLAIYARPALAYAM-631501,KANCHIPURAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	ELECTRICAL SAFETY(MICROSCOPE)	Make & Model	OLYMPUS INDIA & CH20iBIMF	
Range	MULTI	Sr. No	111B193	
Resolution	MULTI	Identification No	NA	
DUC Condition	SATISFACTORY	Location	LABORATORY	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature:25.6°C	Relative Humidity	52% RH	
Calibration Procedure No	SBS/CP/MD/29	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> 98	<b>Uncertainty in % ( ± )</b> 13.92
2	<b>Earth Leakage</b> <5000µAfor B,BF,CF	<b>Measured values in µA</b> 175	<b>Uncertainty in % ( ± )</b> 7.5
3	<b>Enclosure Leakage</b> <500µAfor B,BF,CF	<b>Measured values in µA</b> 226	<b>Uncertainty in % ( ± )</b> 7.2

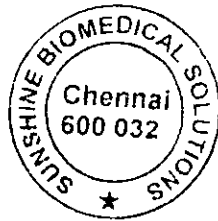
#### REMARKS

- 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

Authorised Signatory

*K.Sathy*  
(Calibration Engineer)  
K.SATHYAMOORTHY



*C.Shanmugara*  
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

<b>CERTIFICATE NO: SBS/CL/23/13966</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	10-10-2023			
SRF No & Date	SRF/23/00845-0002 & 09-10-2023			
Receipt Date	09-10-2023			
Calibration Date	09-10-2023			
Calibration Due	08-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, PILLAIYARPALAYAM-631501,KANCHIPURAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	SEMI AUTO ANALYZER	Make & Model	ROBONIK & PRIETEST TOUCH	
Range	MULTI	Sr. No	ATCD1410818RBK	
Resolution	MULTI	Identification No	NA	
DUC Condition	SATISFACTORY	Location	LABORATORY	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature:25.6°C	Relative Humidity	52% RH	
Calibration Procedure No	SBS/CP/MD/20	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
<b>S.No</b>	<b>Description</b>	<b>Make/ Si No:</b>	<b>Certificate No</b>	<b>Validity</b>
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> 154	<b>Uncertainty in % ( ± )</b> 7.8
3	<b>Enclosure Leakage</b> <500µAfor B,BF,CF	<b>Measured values in µA</b> 204	<b>Uncertainty in % ( ± )</b> 7.3

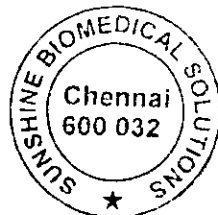
#### REMARKS

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- 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

*KSM*  
(Calibration Engineer)  
K.SATHYAMOORTHY



*C.S*  
Technical Manager  
C.SHANMUGARAJ

Chief Executive

## SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13967	MECHANICAL	Page No:1 of 1	
Issue Date	10-10-2023			
SRF No & Date	SRF/23/00845-0003 & 09-10-2023			
Receipt Date	09-10-2023			
Calibration Date	09-10-2023			
Calibration Due	08-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, PILLAIYARPALAYAM-631501,KANCHIPURAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	CENTRIFUGE	Make & Model	REMI & R-8C	
Range	5250 RPM	Sr. No	NA	
Resolution	10 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

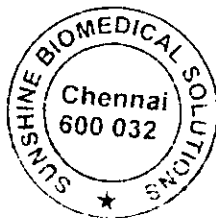
S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.6	1.4	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	4.2

### 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

*K.S.M.*  
(Calibration Engineer)  
K.SATHYAMOORTHY



Authorised Signatory

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

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13968

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE, PILLAIYARPALAYAM-631501, KANCHIPURAM DISTRICT.	SRF No.	SRF/23/00845-0004
	SRF Date	09-10-2023
	Date of Receipt	07-10-2023
	Date of Calibration	09-10-2023
	Due Date for Calibration	08-10-2024
	Issue Date	10-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	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)	23.9	Humidity (%RH)	55	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

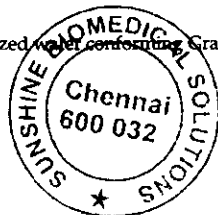
**Z Factor: 1.00319**

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.91	9.92	9.93	9.92	9.91	9.92	-0.08	0.01	0.47	
		9.92	9.90	9.93	9.94	9.95					
2	50.0	49.95	49.96	49.97	49.98	49.99	49.95	-0.05	0.03	0.47	
		49.90	49.91	49.92	49.92	49.96					
3	100.0	99.96	99.97	99.98	99.97	99.96	99.97	-0.03	0.01	0.47	
		99.96	99.97	99.98	99.99	99.96					

**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,  
  
 (Calibration Engineer)  
 M.RAGUL



Authorised by:  
  
 Quality Manager/Chief Executive)  
 C.SIVABALAN

### SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13969

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE, PILLAIYARPALAYAM-631501, KANCHIPURAM DISTRICT.	SRF No.	SRF/23/00845-0005
	SRF Date	09-10-2023
	Date of Receipt	07-10-2023
	Date of Calibration	09-10-2023
	Due Date for Calibration	08-10-2024
	Issue Date	10-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	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)	23.9	Humidity (%RH)	55	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

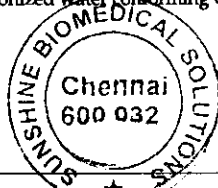
**Z Factor: 1.00319**

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.94	99.96	99.97	99.95	99.90	99.96	-0.04	0.02	0.47	
		99.96	99.95	99.97	99.98	99.98					
2	500	499.85	499.82	499.83	499.82	499.81	499.83	-0.17	0.01	0.47	
		499.82	499.83	499.84	499.85	499.82					
3	1000	999.88	999.89	999.87	999.88	999.85	999.87	-0.13	0.01	0.47	
		999.85	999.86	999.85	999.87	999.87					

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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,  
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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13970

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE, PILLAIYARPALAYAM-631501,KANCHIPURAM DISTRICT.	SRF No.	SRF/23/00845-0006
	SRF Date	09-10-2023
	Date of Receipt	07-10-2023
	Date of Calibration	09-10-2023
	Due Date for Calibration	08-10-2024
	Issue Date	10-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	NA
Range	1000µl	Model	MICROTIPS UNIVERSAL
Resolution	FIXED	Material	PVC
Serial Number	NA	Operating Range	1000µl FIXED
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

**Environmental Condition**

**Calibration Method Used**

Temperature (°C)	23.9	Humidity (%RH)	55	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**

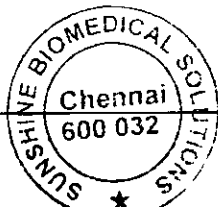
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	1000	999.88	999.89	999.87	999.88	999.85	999.87	-0.13	0.01	0.47
		999.85	999.86	999.85	999.87	999.87				

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Calibrated By:

(Calibration Engineer)  
 M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)  
 C.SIVABALAN

## SUNSHINE BIOMEDICAL SOLUTIONS

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