

## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/13651</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00789-0001 & 06-10-2023			
Receipt Date	06-10-2023			
Calibration Date	06-10-2023			
Calibration Due	05-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT PRIMARY HEALTH CENTRE, VADUGACHERY-611109,NAGAPATTINAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: ELECTRICAL SAFETY (CELL COUNTER)	Make & Model	: SYSMEX & XP-100	
Range	: MULTI	Sr. No	: B5692	
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	Insulation Resitance	Measured values in MΩ	Uncertainty in % ( ± )
	>20MΩ	100	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % ( ± )
	<5000µAfor B,BF,CF	167	7.6
3	Enclosure Leakage	Measured values in µA	Uncertainty in % ( ± )
	<500µAfor B,BF,CF	222	7.2

#### REMARKS

- This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 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.
- 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

Authorised Signatory

  
(Calibration Engineer)  
P.PRASANNA



  
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

<b>CERTIFICATE NO: SBS/CL/23/13652</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00789-0002 & 06-10-2023			
Receipt Date	06-10-2023			
Calibration Date	06-10-2023			
Calibration Due	05-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT PRIMARY HEALTH CENTRE, VADUGACHERY-611109,NAGAPATTINAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: ELECTRICAL SAFETY (MICROSCOPE)	Make & Model	: OLYMPUS & CH20I	
Range	: MULTI	Sr. No	: I11L040	
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	Insulation Resisitance >20MΩ	Measured values in MΩ 98	Uncertainty in % ( ± ) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 171	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

Authorised Signatory

  
(Calibration Engineer)  
K.SATHYAMOORTHY

  
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/23/13653

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, VADUGACHERY-611109,NAGAPATTINAM DISTRICT.	SRF No.	SRF/23/00789-0003
	SRF Date	06-10-2023
	Date of Receipt	05-10-2023
	Date of Calibration	06-10-2023
	Due Date for Calibration	05-10-2024
	Issue Date	07-10-2023

**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. / 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	9.91	9.92	9.90	9.92	9.93	9.92	-0.08	0.01	0.47
		9.92	9.93	9.92	9.93	9.91				
2	50.0	49.95	49.96	49.95	49.95	49.96	49.96	-0.04	0.01	0.47
		49.96	49.97	49.98	49.97	49.96				
3	100.0	99.89	99.88	99.89	99.87	99.88	99.87	-0.13	0.01	0.47
		99.88	99.87	99.85	99.86	99.87				

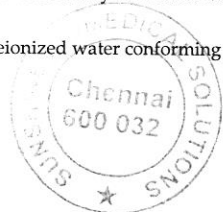
**Remarks**

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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. 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

## SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13654

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, VADUGACHERY-611109,NAGAPATTINAM DISTRICT.	SRF No.	SRF/23/00789-0004
	SRF Date	06-10-2023
	Date of Receipt	05-10-2023
	Date of Calibration	06-10-2023
	Due Date for Calibration	05-10-2024
	Issue Date	07-10-2023

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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

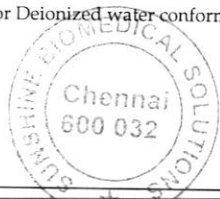
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
		1	100	99.95	99.96	99.94				
2	500	499.95	499.96	499.95	499.96	499.97	499.96	-0.04	0.01	0.47
		499.96	499.97	499.98	499.98	499.96				
3	1000	999.98	999.97	999.95	999.96	999.97	999.97	-0.03	0.01	0.47
		999.96	999.97	999.98	999.96	999.97				

Remarks


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Calibrated By,

  
 (Calibration Engineer)  
 M.ADHIBAN



Authorised by:

  
 (Quality Manager/Chief Executive)  
 C.SIVABALAN

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