



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/13946</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00647-0002 & 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, MELMANGALAM-625603, THENI DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	ELECTRICAL SAFETY (MICROSCOPE)	Make & Model	LABOMED & NA	
Range	MULTI	Sr. No	221035405	
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

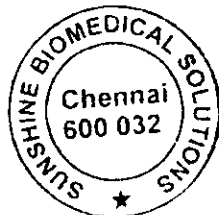
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance >20MΩ	Measured values in MΩ 86	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 191	Uncertainty in % (±) 9.4
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 232	Uncertainty in % (±) 8.5

#### 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

  
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

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Customer Name & Address		SRF No.	
GOVERNMENT PRIMARY HEALTH CENTRE, MELMANGALAM-625603, THENI DISTRICT.		SRF/23/00647-0003	
		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	RW09390	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						
SI. 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				

**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: (Calibration Engineer)  
M.RAGUL

Authorized 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/23/13948

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
MELMANGALAM-625603, THENI DISTRICT.

SRF No.	SRF/23/00647-0004
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	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW12472	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**

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	99.94	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	999.74	999.76	999.78	999.77	999.75	999.77	-0.23	0.02	0.47
		999.75	999.77	999.78	999.77	999.79				

**Remarks**

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- 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 Grade3 as specified in ISO 3696.

Calibrated By,

  
(Calibration Engineer)  
M.RAGUL



Authorized by:

  
(Quality Manager/Chief Executive)  
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