

## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13361	MECHANICAL	Page No:1 of 1
Issue Date	07-10-2023		
SRF No & Date	SRF/23/00731-0001 & 07-10-2023		
Receipt Date	07-10-2023		
Calibration Date	07-10-2023		
Calibration Due	06-10-2024		

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
SENGAL-639102,KARUR DISTRICT.

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

Description : CENTRIFUGE	Make & Model : B.D INSTRUMENTATIONS & BDI-152
Range : 3500 RPM	Sr. No : NA
Resolution : 1 RPM	Identification No : NA
DUC Condition : Satisfactory	Location : LABORATORY

**Environmental Conditions & Standard Operating Procedure Details**

Environmental Details	Temperature: 25.3°C	Relative Humidity	55% Rh
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE

**Reference Standards Details**

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	999.1	0.9	4.2
2	2000	1999.6	0.4	4.2
3	3000	2999.6	0.4	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

*KSTy*  
(Calibration Engineer)  
K.SATHYAMOORTHY



Authorised Signatory

*C. SIVABALAN*  
[Signature Box] (Quality Manager) [Signature Box] (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

<b>CERTIFICATE NO: SBS/CL/23/13362</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00731-0002 & 07-10-2023			
Receipt Date	07-10-2023			
Calibration Date	07-10-2023			
Calibration Due	06-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT PRIMARY HEALTH CENTRE, SENGAL-639102,KARUR DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: ELECTRICAL SAFETY (MICROSCOPE)	Make & Model	: LABOMED & NA	
Range	: MULTI	Sr. No	: AG29E12011	
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	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	85	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000μAfor B,BF,CF	176	7.5
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500μAfor B,BF,CF	223	7.2

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- 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



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**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13363

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, SENGAL-639102,KARUR DISTRICT.	SRF No.	SRF/23/00731-0003
	SRF Date	07-10-2023
	Date of Receipt	06-10-2023
	Date of Calibration	07-10-2023
	Due Date for Calibration	06-10-2024
	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	RW01265	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

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

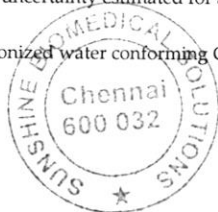
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.86	9.87	9.88	9.85	9.86	9.85	-0.15	0.02	0.47	
		9.82	9.85	9.86	9.84	9.82					
2	50.0	49.77	49.87	49.77	49.72	49.76	49.75	-0.25	0.05	0.47	
		49.71	49.72	49.73	49.74	49.72					
3	100.0	99.80	99.81	99.82	99.83	99.82	99.82	-0.18	0.01	0.47	
		99.81	99.83	99.81	99.82	99.83					

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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.
- 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



Authorised by:

  
 Quality Manager/Chief Executive  
 C.SIVABALAN

**SUNSHINE BIOMEDICAL SOLUTIONS**

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**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13364

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, SENGAL-639102,KARUR DISTRICT.	SRF No.	SRF/23/00731-0004
	SRF Date	07-10-2023
	Date of Receipt	06-10-2023
	Date of Calibration	07-10-2023
	Due Date for Calibration	06-10-2024
	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	RW02960	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

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

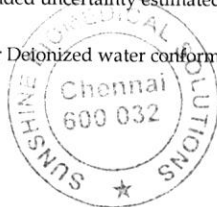
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.81	99.82	99.83	99.81	99.83	99.83	-0.17	0.02	0.47	
		99.82	99.83	99.84	99.85	99.87					
2	500	499.95	499.96	499.95	499.96	499.97	499.96	-0.04	0.01	0.47	
		499.96	499.97	499.98	499.98	499.96					
3	1000	999.77	999.76	999.75	999.74	999.73	999.74	-0.26	0.02	0.47	
		999.72	999.73	999.75	999.74	999.75					

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