

## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13365	MECHANICAL	Page No:1 of 1
Issue Date	07-10-2023		
SRF No & Date	SRF/23/00732-0001 & 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,  
KALLAPALLI-639105,KARUR DISTRICT.

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

Description : CENTRIFUGE	Make & Model : B.D INSTRUMENTATION & 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: 25.5°C	Relative Humidity	52%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	500	499.0	1.0	4.2
2	1500	1499.6	0.4	4.2
3	3000	2999.5	0.5	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

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



Authorised Signatory

*C. SIVABALAN*  
 (Quality Manager)     (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/23/13366</b>		<b>MEDICAL DEVICES</b>		Page No:1 of 1
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00732-0002 & 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, KALLAPALLI-639105,KARUR DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	ELECTRICAL SAFETY(MICROSCOPE)	Make & Model	LABOMED & NA	
Range	MULTI	Sr. No	190513588	
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> 87	<b>Uncertainty in % ( ± )</b> 13.92
2	<b>Earth Leakage</b> <5000µAfor B,BF,CF	<b>Measured values in µA</b> 195	<b>Uncertainty in % ( ± )</b> 9.3
3	<b>Enclosure Leakage</b> <500µAfor B,BF,CF	<b>Measured values in µA</b> 222	<b>Uncertainty in % ( ± )</b> 8.7

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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

*KSH*  
(Calibration Engineer)  
K.SATHYAMOORTHY



Authorised Signatory

*CS*  
Technical Manager  
(C.SHANMUGARAJ)

Chief Executive

## SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13367

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
KALLAPALLI-639105, KARUR DISTRICT.

SRF No.	SRF/23/00732-0003
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	RW02903	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)	23.8	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**

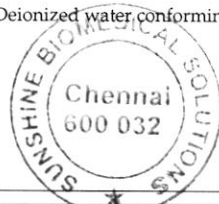
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.92	9.94	9.95	9.98	9.93	9.95	-0.05	0.02	0.47
		9.92	9.93	9.98	9.97	9.94				
2	50.0	49.85	49.87	49.86	49.89	49.88	49.85	-0.15	0.02	0.47
		49.82	49.85	49.87	49.83	49.82				
3	100.0	99.85	99.87	99.85	99.84	99.86	99.87	-0.13	0.02	0.47
		99.89	99.87	99.89	99.87	99.90				

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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

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**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13368 Page. No: 1 of 1

Customer Name & Address		SRF No.	SRF/23/00732-0004
GOVERNMENT PRIMARY HEALTH CENTRE, KALLAPALLI-639105,KARUR DISTRICT.		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	RW01253	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)	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	99.85	99.87	99.85				
		99.89	99.89	99.90	99.87	99.90				
2	500	499.90	499.95	499.90	499.90	499.95	499.90	-0.10	0.03	0.47
		499.89	499.88	499.85	499.85	499.90				
3	1000	999.89	999.88	999.89	999.87	999.90	999.88	-0.12	0.03	0.47
		999.83	999.84	999.91	999.88	999.89				

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(Calibration Engineer)  
M.RAGUL



Authorised by:  
  
 (Quality Manager/Chief Executive)  
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