

## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13401	MECHANICAL	Page No:1 of 1	
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00740-0001 & 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, AYYAMPALAYAM-639113,KARUR DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	CENTRIFUGE	Make & Model	REMI & NA	
Range	3000 RPM	Sr. No	C-854/8	
Resolution	1 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	998.9	1.1	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	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

  
(Calibration Engineer)  
K.SATHYAMOORTHY



Authorised Signatory

  
 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/23/13402</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00740-0002 & 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, AYYAMPALAYAM-639113,KARUR DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	ELECTRICAL SAFETY(MICROSCOPE)	Make & Model	LABOMED & NA	
Range	MULTI	Sr. No	190110792	
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 Resistance >20MΩ	Measured values in MΩ 92	Uncertainty in % ( ± ) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 172	Uncertainty in % ( ± ) 7.5
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 221	Uncertainty in % ( ± ) 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/23/13403

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, AYYAMPALAYAM-639113,KARUR DISTRICT.	SRF No.	SRF/23/00740-0003
	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	HANDYPIPETTE
Range	10-100µl	Model	NA
Resolution	0.2µl	Material	PVC
Serial Number	101700789	Operating Range	10-100µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

**Environmental Condition**

Temperature (°C)	23.9	Humidity (%RH)	55
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6

**Calibration Method Used**

National / International Standard	ISO 8655-6:2002
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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

**Z Factor: 1.00319**

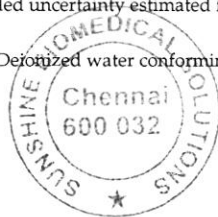
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.90	9.92	9.88	9.91	9.92	9.91	-0.09	0.01	0.47	
		9.91	9.92	9.93	9.92	9.90					
2	50.0	49.78	49.76	49.74	49.72	49.74	49.74	-0.26	0.02	0.47	
		49.76	49.75	49.73	49.72	49.71					
3	100.0	98.92	98.94	98.94	98.96	98.92	98.93	-1.07	0.02	0.47	
		98.91	98.93	98.94	98.92	98.91					

**Remarks**

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- 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.
- 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/23/13404

Page. No : 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, AYYAMPALAYAM-639113, KARUR DISTRICT.	SRF No.	SRF/23/00740-0004
	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	RW11686	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

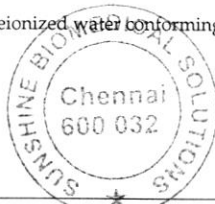
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	100.51	100.52	100.53	100.52	100.51	100.50	0.50	0.02	0.47
		100.49	100.48	100.49	100.49	100.48				
2	500	500.40	500.42	500.43	500.44	500.46	500.43	0.43	0.02	0.47
		500.45	500.44	500.43	500.42	500.41				
3	1000	1001.24	1001.26	1001.23	1001.22	1001.22	1001.22	1.22	0.03	0.47
		1001.18	1001.17	1001.20	1001.24	1001.26				

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