

CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13444	MECHANICAL	Page No:1 of 1
Issue Date	07-10-2023		
SRF No & Date	SRF/23/00750-0001 & 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,
KARVIZHI-638151, KARUR DISTRICT.

Details of Device Under Calibration (DUC)

Description : CENTRIFUGE	Make & Model : NA & NA
Range : 3500 RPM	Sr. No : 20111274
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	2500	2499.5	0.5	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

K.Sathy
(Calibration Engineer)
K.SATHYAMOORTHY



Authorised Signatory

C. Sivalalan (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

CERTIFICATE NO: SBS/CL/23/13445	MEDICAL DEVICES	Page No:1 of 1
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Issue Date	07-10-2023
SRF No & Date	SRF/23/00750-0002 & 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,
 KARVIZHI-638151,KARUR DISTRICT.

Details of Device Under Calibration (DUC)

Description : ELECTRICAL SAFETY (MICROSCOPE)	Make & Model : LABOTECH & NA
Range : MULTI	Sr. No : 3989
Resolution : MULTI	Identification No : NA
DUC Condition : SATISFACTORY	Location : LABORATORY

Environmental Conditions & Calibration Procedure Details

Environmental Details	Temperature:25.6 ° C	Relative Humidity	52% RH
Calibration Procedure No	SBS/CP/MD/29	Calibration done at	ONSITE

Reference Standards Details

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 99	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 165	Uncertainty in % (±) 7.6
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 225	Uncertainty in % (±) 7.2

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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/23/13446

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, KARVIZHI-638151, KARUR DISTRICT.	SRF No.	SRF/23/00750-0003
	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 FISHER
Range	10-100µl	Model	NA
Resolution	0.2µl	Material	PVC
Serial Number	RW01272	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	9.96	9.97	9.96	9.97	9.96	9.96	-0.04	0.01	0.47	
		9.97	9.96	9.97	9.96	9.95					
2	50.0	49.85	49.86	49.85	49.85	49.84	49.84	-0.16	0.01	0.47	
		49.82	49.83	49.85	49.86	49.82					
3	100.0	99.77	99.76	99.75	99.74	99.76	99.75	-0.25	0.02	0.47	
		99.76	99.75	99.74	99.73	99.72					

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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

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13447

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
KARVIZHI-638151, KARUR DISTRICT.

SRF No.	SRF/23/00750-0004
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 FISHER
Range	100-1000µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	RW02908	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

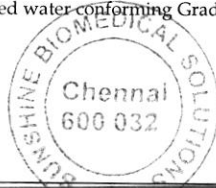
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
		1	100	99.81	99.82	99.83				
		99.82	99.83	99.84	99.85	99.87				
2	500	499.95	499.96	499.95	499.96	499.97	499.96	-0.04	0.01	0.47
		499.96	499.97	499.98	499.98	499.96				
3	1000	999.85	999.86	999.87	999.88	999.85	999.86	-0.14	0.01	0.47
		999.87	999.85	999.86	999.87	999.86				

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Calibrated By,

M. Adhivan
(Calibration Engineer)
MADHIBAN



Authorised by:

C. Sivabalan
(Quality Manager/Chief Executive)
C.SIVABALAN

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