

CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13414	MECHANICAL	Page No:1 of 1
Issue Date	07-10-2023		
SRF No & Date	SRF/23/00743-0001 & 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,
PASUPATHIPALAYAM-639004, KARUR DISTRICT.

Details of Device Under Calibration (DUC)

Description : CENTRIFUGE	Make & Model : REMI & NA
Range : 3500 RPM	Sr. No : ZBFN16388
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	1000	999.0	1.0	4.2
2	2000	1999.6	0.4	4.2
3	3500	3499.7	0.3	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

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

CERTIFICATE NO: SBS/CL/23/13415		MEDICAL DEVICES		Page No:1 of 1
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00743-0002 & 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, PASUPATHIPALAYAM-639004,KARUR DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	ELECTRICAL SAFETY(MICROSCOPE)	Make & Model	OLYMPUS & NA	
Range	MULTI	Sr. No	i111065	
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 Resistance >20MΩ	Measured values in MΩ 81	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 182	Uncertainty in % (±) 9.7
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 216	Uncertainty in % (±) 8.8

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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/23/13416

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PASUPATHIPALAYAM-639004,KARUR DISTRICT.

SRF No.	SRF/23/00743-0003
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	HANDY PIPETTE
Range	10-100µl	Model	NA
Resolution	0.2µl	Material	PVC
Serial Number	11802161	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. / 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

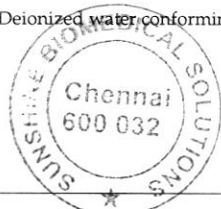
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.92	9.94	9.95	9.98	9.93	9.95	-0.05	0.02	0.47
		9.92	9.93	9.98	9.97	9.94				
2	50.0	49.85	49.87	49.86	49.89	49.88	49.85	-0.15	0.02	0.47
		49.82	49.85	49.87	49.83	49.82				
3	100.0	99.85	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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- 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/23/13417

Page. No: 1 of 1

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GOVERNMENT PRIMARY HEALTH CENTRE,
PASUPATHIPALAYAM-639004,KARUR DISTRICT.

SRF No.	SRF/23/00743-0004
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	VERTAX
Range	100-1000µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	31711593	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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

Result of Calibration in µl

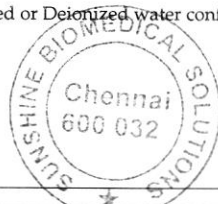
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.91	99.94	99.97	99.96	99.95	99.94	-0.06	0.03	0.47
		99.93	99.95	99.90	99.98	99.95				
2	500	499.90	499.95	499.90	499.90	499.95	499.90	-0.10	0.03	0.47
		499.89	499.88	499.85	499.85	499.90				
3	1000	999.89	999.88	999.89	999.87	999.90	999.89	-0.11	0.02	0.47
		999.93	999.90	999.91	999.89	999.87				

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