



CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/14990		MEDICAL DEVICES		Page No:1 of 1
Issue Date	18-10-2023			
SRF No & Date	SRF/23/00919-0001 & 17-10-2023			
Receipt Date	17-10-2023			
Calibration Date	17-10-2023			
Calibration Due	16-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR,TRICHY DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH	
Range	: MULTI	Sr. No	: ATCD1201220RBK	
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/20	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

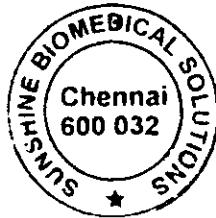
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	88	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000μAfor B,BF,CF	168	7.6
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500μAfor B,BF,CF	235	7.2

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


 Technical Manager
C.SHANMUGARAJ

Chief Executive

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.



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
CERTIFICATE NO: SBS/CL/23/14991		MECHANICAL		Page No:1 of 1
Issue Date		18-10-2023		
SRF No & Date		SRF/23/00919-0002 & 17-10-2023		
Receipt Date		17-10-2023		
Calibration Date		17-10-2023		
Calibration Due		16-10-2024		
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR, TRICHY DISTRICT.				
Details of Device Under Calibration (DUC)				
Description : CENTRIFUGE		Make & Model : MICROSIL & NA		
Range : 3500 RPM		Sr. No : 79/385 MK-10		
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

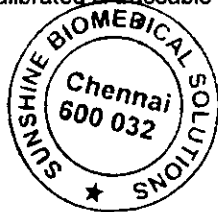
CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	999.9	0.1	4.2
2	2000	1999.8	0.2	4.2
3	3000	2999.7	0.3	4.2

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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

(Calibration Engineer)
K.SATHYAMOORTHY



Authorised Signatory

(Quality Manager)
(C.SIVABALAN)

(Chief Executive)

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14992

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR, TRICHY DISTRICT.	SRF No.	SRF/23/00919-0003
	SRF Date	17-10-2023
	Date of Receipt	16-10-2023
	Date of Calibration	17-10-2023
	Due Date for Calibration	16-10-2024
	Issue Date	18-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	NA	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	9.91	9.92	9.90	9.92	9.93	9.92	-0.08	0.01	0.47	
		9.92	9.93	9.92	9.93	9.91					
2	50.0	49.95	49.96	49.95	49.95	49.96	49.96	-0.04	0.01	0.47	
		49.96	49.97	49.98	49.97	49.96					
3	100.0	99.89	99.88	99.89	99.87	99.88	99.87	-0.13	0.01	0.47	
		99.88	99.87	99.85	99.86	99.87					

Remarks

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- 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. 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,

(Calibration Engineer)
M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)
C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

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Certificate No: SBS/CL/23/14993

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, THANDALAIPUTHUR, TRICHY DISTRICT.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SRF No.</td> <td>SRF/23/00919-0004</td> </tr> <tr> <td>SRF Date</td> <td>17-10-2023</td> </tr> <tr> <td>Date of Receipt</td> <td>16-10-2023</td> </tr> <tr> <td>Date of Calibration</td> <td>17-10-2023</td> </tr> <tr> <td>Due Date for Calibration</td> <td>16-10-2024</td> </tr> <tr> <td>Issue Date</td> <td>18-10-2023</td> </tr> </table>	SRF No.	SRF/23/00919-0004	SRF Date	17-10-2023	Date of Receipt	16-10-2023	Date of Calibration	17-10-2023	Due Date for Calibration	16-10-2024	Issue Date	18-10-2023
SRF No.	SRF/23/00919-0004												
SRF Date	17-10-2023												
Date of Receipt	16-10-2023												
Date of Calibration	17-10-2023												
Due Date for Calibration	16-10-2024												
Issue Date	18-10-2023												

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	NA	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	TVCSP122/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.85	99.86	99.87	99.85	99.84	99.84	-0.16	0.02	0.47	
		99.83	99.82	99.85	99.81	99.82					
2	500	499.88	499.87	499.86	499.85	499.84	499.85	-0.15	0.02	0.47	
		499.85	499.87	499.85	499.84	499.83					
3	1000	999.95	999.97	999.95	999.94	999.93	999.94	-0.06	0.02	0.47	
		999.92	999.91	999.93	999.94	999.95					

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