



CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/14641		MEDICAL DEVICES		Page No:1 of 1
Issue Date	13-10-2023			
SRF No & Date	SRF/23/00890-0001 & 12-10-2023			
Receipt Date	12-10-2023			
Calibration Date	12-10-2023			
Calibration Due	11-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, V.S.KOTTAI-624306,DINDIGUL DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	: SEMI AUTO ANALYZER	Make & Model	: GENUINE BIOSYSTEM & GB 235	
Range	: MULTI	Sr. No	: BA-CL-823	
Resolution	: MULTI	Identification No	: NA	
DUC Condition	: SATISFACTORY	Location	: PRIMARY HEALTH CENTRE	
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 Resistance >20MΩ	Measured values in MΩ 87	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 195	Uncertainty in % (±) 9.3
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 241	Uncertainty in % (±) 8.4

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)
E.ESWAR



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,
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CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/14642	MECHANICAL	Page No:1 of 1	
Issue Date	13-10-2023			
SRF No & Date	SRF/23/00890-0002 & 12-10-2023			
Receipt Date	12-10-2023			
Calibration Date	12-10-2023			
Calibration Due	11-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, V.S.KOTTAI-624306,DINDIGUL 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	PRIMARY HEALTH CENTRE	
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

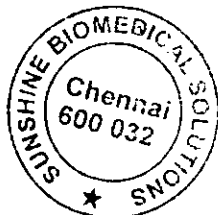
S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	500	499.0	1.0	4.2
2	1500	1499.5	0.5	4.2
3	3000	2999.5	0.5	4.2

REMARKS

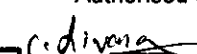
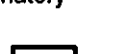
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- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
- 5.The 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)
E.ESWAR



Authorised Signatory

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

SUNSHINE BIOMEDICAL SOLUTIONS

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CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/14643	THERMAL	Page No:1 of 1	
Issue Date	13-10-2023			
SRF No & Date	SRF/23/00890-0003 & 12-10-2023			
Receipt Date	12-10-2023			
Calibration Date	12-10-2023			
Calibration Due	11-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, V.S.KOTTAI-624306,DINDIGUL DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	TEMPERATURE INDICATOR WITH SENSOR OF (REFRIGERATOR)	Make & Model	LG & NA	
Range	2-8 °C	Sr. No	GL-195CLLP/2013	
Resolution	0.1 °C	Identification No	NA	
DUC Condition	Satisfactory	Location	PRIMARY HEALTH CENTRE	
Environmental Conditions & Calibration Procedure Details				
Environmental Details	Temperature: 25.3°C	Relative Humidity	54% Rh	
Calibration Procedure No	SBS/CP/TH/04	Calibration done at	ONSITE	
Reference Standards Details				
S.No	Description	Make/ SI No:	Certificate No	Validity
1	RTD Sensor with paperless Recorder	Tempsens & Tempsens / TD09200218	TMS/22/62 01	10-11-2023

CALIBRATION RESULTS

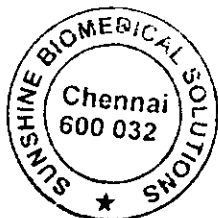
S.No.	DEVICE UNDER CALIBRATION READINGS	STANDARD INSTRUMENTS READINGS	DEVIATION	EXPANDED UNCERTAINTY (±)
	°C	°C	°C	°C
1	2.0	1.8	0.2	0.62
2	4.0	3.7	0.3	0.62
3	8.0	7.7	0.3	0.62

REMARKS

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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
7. Temperature Scale:International Temperature Scale,1990(ITS-90)

Calibrated By


 (Calibration Engineer)
 E.ESWAR



Authorised Signatory



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

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14644

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
V.S.KOTTAI-624306,DINDIGUL DISTRICT.

SRF No.	SRF/23/00890-0004
SRF Date	12-10-2023
Date of Receipt	11-10-2023
Date of Calibration	12-10-2023
Due Date for Calibration	11-10-2024
Issue Date	13-10-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICROLUX
Range	5-50µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	10-50µl
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

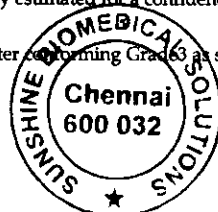
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.94	9.97	9.94	9.96	9.93	9.95	-0.05	0.02	0.47
		9.98	9.95	9.92	9.97	9.96				
2	50	49.85	49.86	49.87	49.82	49.83	49.85	-0.15	0.02	0.47
		49.87	49.85	49.82	49.89	49.87				
3	100	99.94	99.97	99.96	99.95	99.98	99.95	-0.05	0.02	0.47
		99.93	99.95	99.97	99.94	99.95				

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 Grade 3 as specified in ISO 3696.

Calibrated By,

M. Adhiban
(Calibration Engineer)
M.ADHIBAN



Authorised by:

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

SUNSHINE BIOMEDICAL SOLUTIONS

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14645 Page. No: 1 of 1

Customer Name & Address GOVERNMENT PRIMARY HEALTH CENTRE, V.S.KOTTAI-624306,DINDIGUL DISTRICT.		SRF No.	SRF/23/00890-0005
		SRF Date	12-10-2023
		Date of Receipt	11-10-2023
		Date of Calibration	12-10-2023
		Due Date for Calibration	11-10-2024
		Issue Date	13-10-2023

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	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	99.84	99.95	99.89	-0.11	0.04	0.47
		99.89	99.95	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	999.91	-0.09	0.03	0.47
		999.93	999.90	999.91	999.94	999.95				

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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 Grades as specified in ISO 3696.

Calibrated By,

 (Calibration Engineer)
 M.MADHIBAN



Authorised by:

 (Quality Manager/Chief Executive)
 C.SIVABALAN

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