

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/13655		MEDICAL DEVICES		Page No:1 of 1
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00790-0001 & 06-10-2023			
Receipt Date	06-10-2023			
Calibration Date	06-10-2023			
Calibration Due	05-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, THEMANGALAM-611108,NAGAPATTINAM DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH	
Range	: MULTI	Sr. No	: ATCD4261220RBK	
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

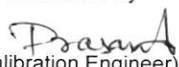
RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resistance >20MΩ	Measured values in MΩ 88	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 175	Uncertainty in % (±) 7.5
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 235	Uncertainty in % (±) 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)
P.PRASANNA

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.

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/13656		MEDICAL DEVICES		Page No:1 of 1
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00790-0002 & 06-10-2023			
Receipt Date	06-10-2023			
Calibration Date	06-10-2023			
Calibration Due	05-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, THEMANGALAM-611108,NAGAPATTINAM DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	ELECTRICAL SAFETY (MICROSCOPE)	Make & Model	OLYMPUS & CH20I	
Range	MULTI	Sr. No	I11/202	
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 90	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 201	Uncertainty in % (±) 7.3
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 215	Uncertainty in % (±) 7.3

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6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

Authorised Signatory


(Calibration Engineer)
P.PRASANNA




Technical Manager
C.SHANMUGARAJ

Chief Executive

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13657

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, THEMANGALAM-611108,NAGAPATTINAM DISTRICT.	SRF No.	SRF/23/00790-0003
	SRF Date	06-10-2023
	Date of Receipt	05-10-2023
	Date of Calibration	06-10-2023
	Due Date for Calibration	05-10-2024
	Issue Date	07-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROLUX
Range	100-1000µl	Model	NA
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

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	10	9.86	9.87	9.85	9.86	9.87	9.86	-0.14	0.01	0.47
		9.86	9.87	9.85	9.84	9.83				
2	50	49.85	49.86	49.87	49.85	49.85	49.84	-0.16	0.02	0.47
		49.82	49.83	49.82	49.82	49.81				
3	100	99.90	99.91	99.92	99.93	99.90	99.92	-0.08	0.01	0.47
		99.92	99.93	99.92	99.91	99.92				

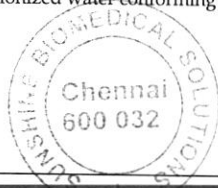
Remarks

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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,

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/23/13658

Page No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
THEMANGALAM-611108,NAGAPATTINAM DISTRICT.

SRF No.	SRF/23/00790-0004
SRF Date	06-10-2023
Date of Receipt	05-10-2023
Date of Calibration	06-10-2023
Due Date for Calibration	05-10-2024
Issue Date	07-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	NA
Range	10-50µl	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)	23.7	Humidity (%RH)	54	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

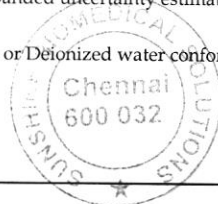
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10	9.91	9.93	9.92	9.94	9.96	9.94	-0.06	0.02	0.47	
		9.94	9.95	9.93	9.95	9.95					
2	30	29.96	29.97	29.98	29.99	29.95	29.95	-0.05	0.03	0.47	
		29.90	29.91	29.93	29.94	29.95					
3	50	49.85	49.84	49.83	49.85	49.86	49.86	-0.14	0.02	0.47	
		49.86	49.87	49.88	49.89	49.90					

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- 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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