SUNSHINE

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/14890	MEDICAL DEVICES	Page No:1 of 1
Issue Date	17-10-2023	
SRF No & Date	SRF/23/00906-0001 & 16-10-2023	
Receipt Date	16-10-2023	
Calibration Date	16-10-2023	
Calibration Due	15-10-2024	

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MUTTAM-608309,CUDDALORE DISTRICT.

Details of Device Under Calibration (DUC)

Description	:	SEMI AUTO ANALYZER	Make & Model	:	ROBONIK & PRIETEST TOUCH
Range	:	MULTI	Sr. No	:	AT0171010RBK
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/ Sl 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	92	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	172	7.5
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	221	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

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised Signatory

Technical Manager
C.SHANMUGARAJ

Chief Executive

SUNSHINE

CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/14891	MECHANICAL	Page No:1 of 1

Issue Date	17-10-2023
SRF No & Date	SRF/23/00906-0002 & 16-10-2023
Receipt Date	16-10-2023
Calibration Date	16-10-2023
Calibration Due	15-10-2024

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MUTTAM-608309,CUDDALORE DISTRICT.

Details of Device Under Calibration (DUC)

Description	:	CENTRIFUGE	Make & Model	:	REMI & NA
Range	:	5250 RPM	Sr. No	:	ZBEN-12429
Resolution	:	10 RPM	Identification No	:	NA
DUC Condition	:	Satisfactory	Location	:	LABORATORY

Environmental Conditions & Standard Operating Procedure Details

Environmental Details	Temperature: 25.4°C	Relative Humidity	54% Rh
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE

Reference Standards Details

S.No	Description	Make/ Sl 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	998.6	1.4	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	4.2

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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

SUNSHINE BIOMEDICAL SOLUTIONS
Chennai
600 032

Authorised Signatory
Quality Manager
(C.SIVABALAN)
Chief Executive

SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14892

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,

MUTTAM-608309,CUDDALORE DISTRICT.

SRF No.	SRF/23/00906-0003
SRF Date	16-10-2023
Date of Receipt	15-10-2023
Date of Calibration	16-10-2023
Due Date for Calibration	15-10-2024
Issue Date	17-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	PW14218	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. / Sl. 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	9.93	9.92	9.91	9.92	-0.08	0.01	0.47
		9.92	9.90	9.93	9.94	9.95				
2	50.0	49.95	49.96	49.97	49.98	49.99	49.95	-0.05	0.03	0.47
		49.90	49.91	49.92	49.92	49.96				
3	100.0	99.96	99.97	99.98	99.97	99.96	99.97	-0.03	0.01	0.47
		99.96	99.97	99.98	99.99	99.96				

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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.

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Calibrated By,

(Calibration Engineer)

M.RAGUL

Authorised by:

(Quality Manager/Chief Executive)

C.SIVABALAN

SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14893

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MUTTAM-608309,CUDDALORE DISTRICT.

SRF No.	SRF/23/00906-0004
SRF Date	16-10-2023
Date of Receipt	15-10-2023
Date of Calibration	16-10-2023
Due Date for Calibration	15-10-2024
Issue Date	17-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	QW10290	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. / Sl. 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	99.94	99.96	99.97	99.95	99.90	99.96	-0.04	0.02	0.47
		99.96	99.95	99.97	99.98	99.98				
2	500	499.85	499.82	499.83	499.82	499.81	499.83	-0.17	0.01	0.47
		499.82	499.83	499.84	499.85	499.82				
3	1000	999.88	999.89	999.87	999.88	999.85	999.87	-0.13	0.01	0.47
		999.85	999.86	999.85	999.87	999.87				

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(Calibration Engineer)
M.RAGUL

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(Quality Manager/Chief Executive)
C.SIVABALAN