SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/09419

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

SRF No.	SRF/23/00282- 0044
SRF Date	29-07-2023
Date of Receipt	29-07-2023
Date of Calibration	29-07-2023
Due Date for Calibration	28-07-2024
Issue Date	31-07-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	NA
Range	100-1000 µl	Model	NA
Resolution	5 µl	Material	PVC
Serial Number	MH423031	Operating Range	100-1000 µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.6	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	99.93	99.94	99.92	99.95	99.96	99.94	-0.06	0.02	0.47
		99.95	99.93	99.96	99.97	99.93				
2	500	499.84	499.83	499.82	499.85	499.86	499.84	-0.16	0.02	0.47
		499.81	499.82	499.84	499.86	499.85				
3	1000	999.74	999.73	999.72	999.71	999.74	999.73	-0.27	0.02	0.47
		999.70	999.71	999.73	999.74	999.75				

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. 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 to Grade 3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)
M.RAGUL

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised by:

(Quality Manager/Chief Executive)
D.VETRI SELVI

SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/09420

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

SRF No.	SRF/23/00282- 0045
SRF Date	29-07-2023
Date of Receipt	29-07-2023
Date of Calibration	29-07-2023
Due Date for Calibration	28-07-2024
Issue Date	31-07-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100 µl	Model	FINNPIPETTE F3
Resolution	0.2 µl	Material	PVC
Serial Number	RW01360	Operating Range	10-100 µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.6	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	9.93	9.94	9.92	9.95	9.96	9.94	-0.06	0.02	0.47
		9.95	9.93	9.96	9.97	9.93				
2	50	49.83	49.84	49.82	49.85	49.86	49.84	-0.16	0.02	0.47
		49.81	49.82	49.84	49.86	49.85				
3	100	99.74	99.73	99.72	99.76	99.75	99.73	-0.27	0.02	0.47
		99.70	99.71	99.74	99.75	99.73				

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. 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 to grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)
M.RAGUL

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised by:

(Quality Manager/Chief Executive)
D.VETRI SELVI

SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/09421

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

SRF No.	SRF/23/00282- 0046
SRF Date	29-07-2023
Date of Receipt	29-07-2023
Date of Calibration	29-07-2023
Due Date for Calibration	28-07-2024
Issue Date	31-07-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROPET
Range	10-100 µl	Model	NA
Resolution	1 µl	Material	PVC
Serial Number	NA	Operating Range	10-100 µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.6	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	9.97	9.98	9.96	9.95	9.95	9.96	-0.04	0.02	0.47
		9.95	9.93	9.96	9.97	9.93				
2	50	49.95	49.96	49.97	49.96	49.95	49.95	-0.05	0.01	0.47
		49.92	49.95	49.95	49.94	49.96				
3	100	99.92	99.94	99.93	99.96	99.97	99.95	-0.05	0.02	0.47
		99.95	99.96	99.97	99.95	99.96				

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

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised by:

(Quality Manager/Chief Executive)
D.VETRI SELVI

SUNSHINE

CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/09416	MECHANICAL	Page No:1 of 1

Issue Date	31-07-2023
SRF No & Date	SRF/23/00282-0041 & 28-07-2023
Receipt Date	28-07-2023
Calibration Date	28-07-2023
Calibration Due	27-07-2024

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

Details of Device Under Calibration (DUC)

Description	:	CENTRIFUGE	Make & Model	:	REMI & R-8C
Operating Range	:	5250 RPM	Sr. No	:	ZHBN-07182
Least Count	:	10 RPM	Identification No	:	NA
DUC Condition	:	Satisfactory	Location	:	LAB

Environmental Conditions & Standard Operating Procedure Details

Environmental Details	Temperature: 25.6 °C	Relative Humidity	56% 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	999.4	0.6	4.2
2	2000	1999.4	0.6	4.2
3	3500	3499.1	0.9	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

(Calibration Engineer)
K.SATHYAMOORTHY

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised Signatory

☑ Quality Manager (D.VETRI SELVI)

☐ Chief Executive

SUNSHINE

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/09417	MEDICAL DEVICES	Page No:1 of 1
Issue Date	29-07-2023	
SRF No & Date	SRF/23/00278-0042 & 28-07-2023	
Receipt Date	28-07-2023	
Calibration Date	28-07-2023	
Calibration Due	27-07-2024	

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

Details of Device Under Calibration (DUC)

Description	:	ELECTRICAL SAFETY ANALYZER(MICROSCOPE)	Make & Model	:	LABOMED & LX200
Range	:	MULTI	Sr. No	:	190211479
Resolution	:	MULTI	Identification No	:	NA
DUC Condition	:	SATISFACTORY	Location	:	LAB

Environmental Conditions & Calibration Procedure Details

Environmental Details	Temperature: 25.3°C	Relative Humidity	53% RH
Calibration Procedure No	SBS/CP/MD/29	Calibration done at	ONSITE

Reference Standards Details

S.No	Description	Make/ Sl No:	Certificate No	Validity
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	TSC/22-23/7400-3	10-08-2023

ELECTRICAL SAFETY

RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	**Insulation Resistance**	**Measured values in MΩ**	**Uncertainty in % (±)**
	>20MΩ	86	13.92
2	**Earth Leakage**	**Measured values in µA**	**Uncertainty in % (±)**
	<5000µAfor B,BF,CF	131	7.6
3	**Patient Leakage**	**Measured values in µA**	**Uncertainty in % (±)**
	<100µAfor B,BF,<10µAfor CF	41	11.6
4	**Enclosure Leakage**	**Measured values in µA**	**Uncertainty in % (±)**
	<500µAfor B,BF,CF	226	6.8

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.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.Sty
(Calibration Engineer)
K.SATHYAMOORTHY

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised Signatory

☐ Technical Manager (C.SHANMUGARAJ)

☐ Chief Executive

SUNSHINE

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/09418	MEDICAL DEVICES	Page No:1 of 1
Issue Date	31-07-2023	
SRF No & Date	SRF/23/00278-0043 & 28-07-2023	
Receipt Date	28-07-2023	
Calibration Date	28-07-2023	
Calibration Due	27-07-2024	

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

Details of Device Under Calibration (DUC)

Description	:	SEMI AUTO ANALYZER	Make & Model	:	ROBONIK & PRIETEST TOUCH
Range	:	MULTI	Sr. No	:	ATD0470321RBK
Resolution	:	MULTI	Identification No	:	NA
DUC Condition	:	SATISFACTORY	Location	:	LAB

Environmental Conditions & Calibration Procedure Details

Environmental Details	Temperature: 25.6°C	Relative Humidity	54% 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	TSC/22-23/7400-3	10-08-2023

ELECTRICAL SAFETY

RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resistance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	88	13.92
2	Earth Leakage	Measured values in µA	Uncertainty in % (±)
	<5000µAfor B,BF,CF	120	7.8
3	Enclosure Leakage	Measured values in µA	Uncertainty in % (±)
	<500µAfor B,BF,CF	247	6.7

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.

Calibrated By

K.Sty
(Calibration Engineer)
K.SATHYAMOORTHY

SUNSHINE BIOMEDICAL SOLUTIONS
Chennai
600 032

Authorised Signatory

☑ Technical Manager
(C.SHANMUGARAJ)

☐ Chief Executive