

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/15024		MEDICAL DEVICES		Page No:1 of 1
Issue Date		18-10-2023		
SRF No & Date		SRF/23/00925-0001 & 18-10-2023		
Receipt Date		18-10-2023		
Calibration Date		18-10-2023		
Calibration Due		17-10-2024		
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, MOOVANUR-621008,TRICHY DISTRICT.				
Details of Device Under Calibration (DUC)				
Description : SEMI AUTO ANALYZER		Make & Model : ROBONIK & PRIETEST TOUCH		
Range : MULTI		Sr. No : ATCD2740818RBK		
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

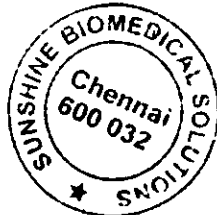
RESULTS			
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resistance >20MΩ	Measured values in MΩ 87	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 195	Uncertainty in % (±) 9.3
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 241	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

KSPJ
(Calibration Engineer)
K.SATHYAMOORTHY



Authorised Signatory

CSL
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/23/15025	MECHANICAL	Page No:1 of 1
Issue Date	18-10-2023		
SRF No & Date	SRF/23/00925-0002 & 18-10-2023		
Receipt Date	18-10-2023		
Calibration Date	18-10-2023		
Calibration Due	17-10-2024		

Customer Name & Address
 GOVERNMENT PRIMARY HEALTH CENTRE,
 MOOVANUR-621008, TRICHY DISTRICT.

Details of Device Under Calibration (DUC)

Description : CENTRIFUGE	Make & Model : LABOTECH & BDI-152
Range : 3500 RPM	Sr. No : 76792
Resolution : 1 RPM	Identification No : NA
DUC Condition : Satisfactory	Location : LABORATORY

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

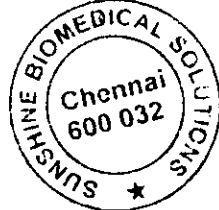
S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	500	498.9	1.1	4.2
2	1500	1499.5	0.5	4.2
3	3000	2999.5	0.5	4.2

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

Calibrated By

 (Calibration Engineer)
 K.SATHYAMOORTHY



Authorised Signatory

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

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15026

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MOOVANUR-621008, TRICHY DISTRICT.

SRF No.	SRF/23/00925-0003
SRF Date	18-10-2023
Date of Receipt	18-10-2023
Date of Calibration	18-10-2023
Due Date for Calibration	17-10-2024
Issue Date	18-10-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICROLUX
Range	5-50µl	Model	NA
Resolution	0.5µl	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

Temperature (°C)	23.9	Humidity (%RH)	55
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6

Calibration Method Used

National / International Standard	ISO 8655-6:2002
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

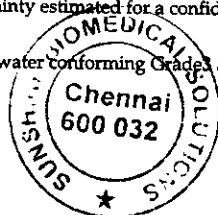
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.94	9.97	9.94	9.96	9.93	9.95	-0.05	0.02	0.47
		9.98	9.95	9.92	9.97	9.96				
2	50.0	49.85	49.86	49.87	49.82	49.83	49.85	-0.15	0.02	0.47
		49.87	49.85	49.82	49.89	49.87				
3	100.0	99.94	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				

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- 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 Grades as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)
M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)
C.SIVABALAN

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15027

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MOOVANUR-621008, TRICHY DISTRICT.

SRF No.	SRF/23/00925-0004
SRF Date	18-10-2023
Date of Receipt	18-10-2023
Date of Calibration	18-10-2023
Due Date for Calibration	17-10-2024
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

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

Result of Calibration in µl

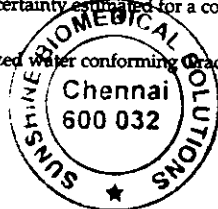
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.85	99.87	99.85	99.84	99.95	99.89	-0.11	0.04	0.47
		99.89	99.95	99.90	99.87	99.90				
2	500	499.90	499.95	499.90	499.90	499.95	499.90	-0.10	0.03	0.47
		499.89	499.88	499.85	499.85	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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Calibrated By,


 (Calibration Engineer)
 MRAGUL



Authorised by:


 (Quality Manager/Chief Executive)
 C.SIVABALAN

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