



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO:</b> SBS/CL/23/14994	<b>MEDICAL DEVICES</b>	<b>Page No:</b> 1 of 1
Issue Date	17-10-2023	
SRF No & Date	SRF/23/00920-0001 & 17-10-2023	
Receipt Date	17-10-2023	
Calibration Date	17-10-2023	
Calibration Due	16-10-2024	

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
VELIYANUR-621014, TRICHY DISTRICT.

**Details of Device Under Calibration (DUC)**

Description : SEMI AUTO ANALYZER	Make & Model : ROBONIK & PRIETEST TOUCH
Range : MULTI	Sr. No : AT2071114RBK
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	<b>Insulation Resistance</b> >20MΩ	<b>Measured values in MΩ</b> 88	<b>Uncertainty in % ( ± )</b> 13.92
2	<b>Earth Leakage</b> <5000µA for B,BF,CF	<b>Measured values in µA</b> 168	<b>Uncertainty in % ( ± )</b> 7.6
3	<b>Enclosure Leakage</b> <500µA for B,BF,CF	<b>Measured values in µA</b> 235	<b>Uncertainty in % ( ± )</b> 7.2

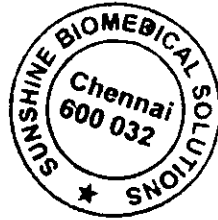
**REMARKS**

- 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

*K.Sathy*

(Calibration Engineer)  
K.SATHYAMOORTHY



Authorised Signatory

*C.Sho*  
 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/23/14995 Page No : 1 of 1

Customer Name & Address		SRF No.	
GOVERNMENT PRIMARY HEALTH CENTRE, VELIYANUR-621014, TRICHY DISTRICT.		SRF/23/00920-0002	
		SRF Date	
		17-10-2023	
		Date of Receipt	
		16-10-2023	
		Date of Calibration	
17-10-2023		Due Date for Calibration	
16-10-2024		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	NA	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

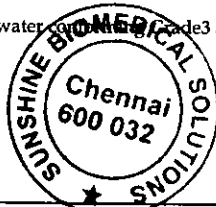
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.91	9.92	9.90	9.92	9.93	9.92	-0.08	0.01	0.47
		9.92	9.93	9.92	9.93	9.91				
2	50.0	49.95	49.96	49.95	49.95	49.96	49.96	-0.04	0.01	0.47
		49.96	49.97	49.98	49.97	49.96				
3	100.0	99.89	99.88	99.89	99.87	99.88	99.87	-0.13	0.01	0.47
		99.88	99.87	99.85	99.86	99.87				

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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 grade3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)  
M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)  
C.SIVABALAN

### 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/23/14996

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, VELIYANUR-621014,TRICHY DISTRICT.	SRF No.	SRF/23/00920-0003
	SRF Date	17-10-2023
	Date of Receipt	16-10-2023
	Date of Calibration	17-10-2023
	Due Date for Calibration	16-10-2024
	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	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

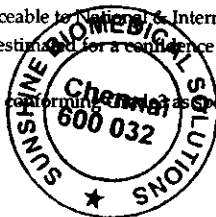
Result of Calibration in µl										
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.85	99.86	99.87	99.85	99.84	99.84	-0.16	0.02	0.47
		99.83	99.82	99.85	99.81	99.82				
2	500	499.88	499.87	499.86	499.85	499.84	499.85	-0.15	0.02	0.47
		499.85	499.87	499.85	499.84	499.83				
3	1000	999.95	999.97	999.95	999.94	999.93	999.94	-0.06	0.02	0.47
		999.92	999.91	999.93	999.94	999.95				

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