



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/13213</b>	<b>MEDICAL DEVICES</b>	<b>Page No:1 of 1</b>
Issue Date	07-10-2023	
SRF No & Date	SRF/23/00696-0001 & 06-10-2023	
Receipt Date	06-10-2023	
Calibration Date	06-10-2023	
Calibration Due	05-10-2024	

### Customer Name & Address

GOVERNMENT PRIMARY HEALTH CARE CENTRE,  
KEEZHAIYUR-609304, MAYILADUTHURAI DISTRICT.

### Details of Device Under Calibration (DUC)

Description	: SEMI AUTOANALYZER	Make & Model	: ROBONIK & PRISTEST TOUCH
Range	: MULTI	Sr. No	: ATCD4301220RBK
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 Resisitance	Measured values in MΩ	Uncertainty in % ( ± )
	>20MΩ	88	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % ( ± )
	<5000μAfor B,BF,CF	204	9.1
3	Enclosure Leakage	Measured values in μA	Uncertainty in % ( ± )
	<500μAfor B,BF,CF	214	8.9

#### 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

*Ksthy*  
(Calibration Engineer)  
K.SATHYA MOORTHY



Authorised Signatory

*CSL*  
Technical Manager  
C.SHANMUGARAJ

Chief Executive

## SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO:</b>	SBS/CL/23/13214	<b>MECHANICAL</b>	Page No:1 of 1
Issue Date	07-10-2023		
SRF No & Date	SRF/23/00696-0002 & 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,  
 KEEZHAIYUR-609304, MAYILADUTHURAI DISTRICT.

### Details of Device Under Calibration (DUC)

Description : CENTRIFUGE	Make & Model : REMI & C-852/8
Range : 4250 RPM	Sr. No : ZIIN-36034
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	57% 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 ( ± )
	<b>RPM</b>	<b>RPM</b>	<b>RPM</b>	<b>%</b>
1	1000	999.7	0.3	4.2
2	2000	1999.7	0.3	4.2
3	3000	2999.6	0.4	4.2

### 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.Sathy*  
 (Calibration Engineer)  
 K.SATHYA MOORTHY



Authorised Signatory

*C. Divya*  
 Quality Manager  
 C.SIVABALAN       Chief Executive

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13215

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, KEEZHAIYUR-609304, MAYILADUTHURAI DISTRICT.	SRF No.	SRF/23/00696-0003
	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	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	10µl	Material	PVC
Serial Number	YE227AX470519	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)	23.2	Humidity (%RH)	53	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											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.86	99.82	99.84	99.86	99.84	99.85	-0.15	0.01	0.47	
		99.86	99.84	99.86	99.85	99.84					
2	500	499.80	499.81	499.80	499.81	499.80	499.84	-0.17	0.03	0.47	
		499.87	499.86	499.87	499.86	499.87					
3	1000	999.90	999.91	999.90	999.91	999.90	999.91	-0.09	0.01	0.47	
		999.92	999.93	999.92	999.93	999.92					

**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 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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**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13216

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, KEEZHAIYUR-609304, MAYILADUTHURAI DISTRICT.	SRF No.	SRF/23/00696-0004
	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	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	BW03347	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. / SI. 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	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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Calibrated By,

*M. Adhiban*  
(Calibration Engineer)  
M.ADHIBAN



Authorised by:

*C. Sivabalan*  
(Quality Manager/Chief Executive)  
C.SIVABALAN

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