



## CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/15897		MEDICAL DEVICES		Page No:1 of 1
Issue Date	28-10-2023			
SRF No & Date	SRF/23/00969-0001 & 27-10-2023			
Receipt Date	27-10-2023			
Calibration Date	27-10-2023			
Calibration Due	26-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT COMMUNITY HEALTH CENTRE, NATHAM,ULUPPAGUDI-624401,DINDIGUL DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH	
Range	: MULTI	Sr. No	: ATCD0420621BK	
Resolution	: MULTI	Identification No	: NA	
DUC Condition	: SATISFACTORY	Location	: BIOCHEMISTRY LAB	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature:25.6°C	Relative Humidity	52% RH	
Calibration Procedure No	SBS/CP/MD/20	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
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

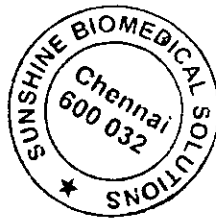
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resistance >20MΩ	Measured values in MΩ 80	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 161	Uncertainty in % (±) 10.4
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 218	Uncertainty in % (±) 8.8

#### 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



Authorised Signatory

  
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

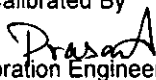
CERTIFICATE NO:	SBS/CL/23/15898	MECHANICAL	Page No:1 of 1	
Issue Date	28-10-2023			
SRF No & Date	SRF/23/00969-0002 & 27-10-2023			
Receipt Date	27-10-2023			
Calibration Date	27-10-2023			
Calibration Due	26-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT COMMUNITY HEALTH CENTRE, NATHAM,ULUPPAGUDI-624401,DINDIGUL DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: CENTRIFUGE	Make & Model	: MICROSIL & MK-10	
Range	: 3500 RPM	Sr. No	: 42/385	
Resolution	: 1 RPM	Identification No	: NA	
DUC Condition	: Satisfactory	Location	: BIOCHEMISTRY LAB	
<b>Environmental Conditions &amp; Standard Operating Procedure Details</b>				
Environmental Details	Temperature: 25.4°C	Relative Humidity	54% Rh	
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
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

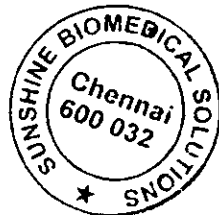
### CALIBRATION RESULTS


S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	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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- 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



Authorised Signatory  
  
 Quality Manager  
(C.SIVABALAN)       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/23/15899

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**Customer Name & Address**

GOVERNMENT COMMUNITY HEALTH CENTRE, NATHAM, ULUPPAGUDI-624401, DINDIGUL DISTRICT.	SRF No.	SRF/23/00969-0003
	SRF Date	27-10-2023
	Date of Receipt	26-10-2023
	Date of Calibration	27-10-2023
	Due Date for Calibration	26-10-2024
	Issue Date	28-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	PW00625	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	TVCSP122/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

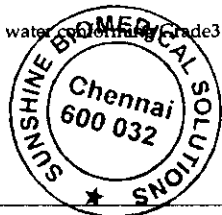
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
		1	10.0	9.64	9.65	9.66				
		9.63	9.62	9.62	9.64	9.62				
2	50.0	49.64	49.68	49.66	49.67	49.65	49.64	-0.36	0.02	0.47
		49.62	49.63	49.64	49.62	49.62				
3	100.0	98.65	98.62	98.63	98.64	98.63	98.64	-1.36	0.01	0.47
		98.66	98.64	98.65	98.62	98.64				

**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, Grade 3 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/23/15900

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**Customer Name & Address**

GOVERNMENT COMMUNITY HEALTH CENTRE, NATHAM, ULUPPAGUDI-624401, DINDIGUL DISTRICT.	SRF No.	SRF/23/00969-0004
	SRF Date	27-10-2023
	Date of Receipt	26-10-2023
	Date of Calibration	27-10-2023
	Due Date for Calibration	26-10-2024
	Issue Date	28-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW13628	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

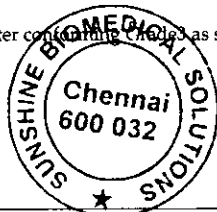
Z Factor: 1.00319

Result of Calibration in µl										
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.92	99.91	99.92	99.91	99.90	99.91	-0.09	0.01	0.47
		99.92	99.91	99.91	99.92	99.92				
2	500	499.67	499.68	499.67	499.68	499.67	499.68	-0.32	0.01	0.47
		499.68	499.67	499.68	499.68	499.67				
3	1000	999.66	999.65	999.64	999.63	999.62	999.63	-0.37	0.02	0.47
		999.65	999.64	999.62	999.62	999.61				

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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 containing Chlorine as specified in ISO 3696.

Calibrated By,  
  
 (Calibration Engineer)  
 M.RAGUL



Authorised by:  
  
 (Quality Manager/Chief Executive)  
 C.SIVABALAN

### SUNSHINE BIOMEDICAL SOLUTIONS

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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15901

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT COMMUNITY HEALTH CENTRE, NATHAM, ULUPPAGUDI-624401, DINDIGUL DISTRICT.	SRF No.	SRF/23/00969-0005
	SRF Date	27-10-2023
	Date of Receipt	26-10-2023
	Date of Calibration	27-10-2023
	Due Date for Calibration	26-10-2024
	Issue Date	28-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	PW01465	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**

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**

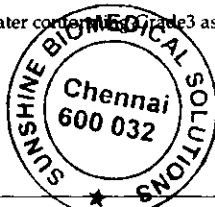
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.89	9.90	9.91	9.93	9.95	9.94	-0.06	0.03	0.47
		9.92	9.95	9.96	9.98	9.97				
2	50.0	49.88	49.87	49.80	49.82	49.86	49.87	-0.13	0.04	0.47
		49.85	49.87	49.86	49.94	49.92				
3	100.0	99.98	99.99	99.86	99.87	99.94	99.79	-0.21	0.33	0.47
		99.84	99.86	98.85	99.83	99.84				

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Calibrated By,

(Calibration Engineer)  
 M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)  
 C.SIVABALAN

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