



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/15041</b>	<b>MEDICAL DEVICES</b>	<b>Page No:1 of 1</b>
Issue Date	18-10-2023	
SRF No & Date	SRF/23/00930-0001 & 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,  
SIRUGAMBUR-621213, TRICHY DISTRICT.

### Details of Device Under Calibration (DUC)

Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH
Range	: MULTI	Sr. No	: ATCD1151220RBK
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

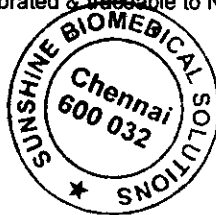
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance >20MΩ	Measured values in MΩ 97	Uncertainty in % ( ± ) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 175	Uncertainty in % ( ± ) 7.5
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 229	Uncertainty in % ( ± ) 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

  
(Calibration Engineer)  
K.SATHYAMOORTHY



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,  
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## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO:</b>	SBS/CL/23/15042	<b>MECHANICAL</b>	Page No:1 of 1	
Issue Date	18-10-2023			
SRF No & Date	SRF/23/00930-0002 & 18-10-2023			
Receipt Date	18-10-2023			
Calibration Date	18-10-2023			
Calibration Due	17-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT PRIMARY HEALTH CENTRE, SIRUGAMBUR-621213,TRICHY DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: CENTRIFUGE	Make & Model	: B.D INSTRUMENT & BDI-153	
Range	: 3500 RPM	Sr. No	: 76798	
Resolution	: 1 RPM	Identification No	: NA	
DUC Condition	: Satisfactory	Location	: LABORATORY	
<b>Environmental Conditions &amp; Standard Operating Procedure Details</b>				
Environmental Details	Temperature: 25.3°C	Relative Humidity	55% 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	999.9	0.1	4.2
2	2000	1999.8	0.2	4.2
3	3000	2999.7	0.3	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

  
(Calibration Engineer)  
K.SATHYAMOORTHY



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,  
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## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15043

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, SIRUGAMBUR-621213, TRICHY DISTRICT.	SRF No.	SRF/23/00930-0003
	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	100-1000µl	Model	NA
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**

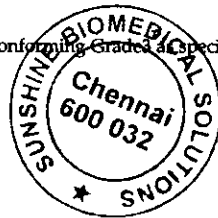
Result of Calibration in µl										
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.85	99.86	99.87	99.85	99.84	99.84	-0.16	0.02	0.47
		99.83	99.82	99.85	99.81	99.82				
2	500	499.88	499.87	499.86	499.85	499.84	499.85	-0.15	0.02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

**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 Grade 1 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/23/15044

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
SIRUGAMBUR-621213,TRICHY DISTRICT.

SRF No.	SRF/23/00930-0004
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	MICROLUX
Range	0-50µl	Model	NA
Resolution	1µl	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**

**Calibration Method Used**

Temperature (°C)	23.7	Humidity (%RH)	54	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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

**Result of Calibration in µl**

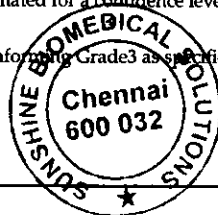
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.91	9.93	9.92	9.94	9.96	9.94	-0.06	0.02	0.47
		9.94	9.95	9.93	9.95	9.95				
2	30	29.96	29.97	29.98	29.99	29.95	29.95	-0.05	0.03	0.47
		29.90	29.91	29.93	29.94	29.95				
3	50	49.85	49.84	49.83	49.85	49.86	49.86	-0.14	0.02	0.47
		49.86	49.87	49.88	49.89	49.90				

**Remarks**

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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 to 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/23/15045

Page. No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
SIRUGAMBUR-621213, TRICHY DISTRICT.

SRF No.	SRF/23/00930-0005
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	5-50µl	Model	FINNPIPETTE F3
Resolution	1µl	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)	23.7	Humidity (%RH)	54
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**

SI. 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**

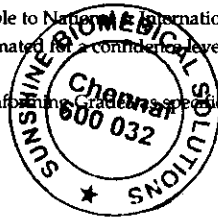
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.91	9.93	9.92	9.94	9.96	9.94	-0.06	0.02	0.47
		9.94	9.95	9.93	9.95	9.95				
2	30	29.96	29.97	29.98	29.99	29.95	29.95	-0.05	0.03	0.47
		29.90	29.91	29.93	29.94	29.95				
3	50	49.85	49.84	49.83	49.85	49.86	49.86	-0.14	0.02	0.47
		49.86	49.87	49.88	49.89	49.90				

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Calibrated By,

(Calibration Engineer)  
M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)  
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