



## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/12715	MECHANICAL	Page No:1 of 1	
Issue Date	05-10-2023			
SRF No & Date	SRF/23/00585-0001 & 05-10-2023			
Receipt Date	05-10-2023			
Calibration Date	05-10-2023			
Calibration Due	04-10-2024			
<u>Customer Name &amp; Address</u>				
GOVERNMENT PRIMARY HEALTH CENTRE, ERVADI-623515,RAMANATHAPURAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: CENTRIFUGE	Make & Model	: B.D.INSTRUMENTATION & BDI-152	
Range	: 3500 RPM	Sr. No	: NA	
Resolution	: 1 RPM	Identification No	: NA	
DUC Condition	: Satisfactory	Location	: LABORATORY	
<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

### 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.S.M.*  
(Calibration Engineer)  
K.SATHYAMOORTHY



Authorised Signatory

*C. Sivabalan*  
 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/23/12716

Page: No :1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, ERVADI-623515, RAMANATHAPURAM DISTRICT.	SRF No.	SRF/23/00585-0002
	SRF Date	05-10-2023
	Date of Receipt	04-10-2023
	Date of Calibration	05-10-2023
	Due Date for Calibration	04-10-2024
	Issue Date	05-10-2023

**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**

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**

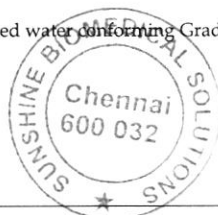
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.94	9.93	9.94	9.92	9.94	9.93	-0.07	0.01	0.47
		9.92	9.92	9.94	9.94	9.94				
2	50.0	49.87	49.88	49.87	49.88	49.87	49.87	-0.13	0.01	0.47
		49.88	49.86	49.87	49.86	49.87				
3	100.0	99.86	99.87	99.88	99.87	99.88	99.87	-0.13	0.01	0.47
		99.87	99.86	99.86	99.88	99.86				

**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. 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

## 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/23/12717

Page. No : 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, ERVADI-623515, RAMANATHAPURAM DISTRICT.	SRF No.	SRF/23/00585-0003
	SRF Date	05-10-2023
	Date of Receipt	04-10-2023
	Date of Calibration	05-10-2023
	Due Date for Calibration	04-10-2024
	Issue Date	05-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	NAK
Range	100-1000µl	Model	NF461157
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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

**Z Factor: 1.00319**

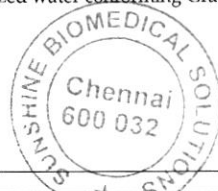
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.92	99.94	99.91	99.90	99.92	99.92	-0.08	0.01	0.47
		99.94	99.93	99.92	99.91	99.92				
2	500	499.04	498.99	499.05	499.02	499.04	499.01	-0.99	0.03	0.47
		498.96	498.99	499.02	499.03	498.99				
3	1000	998.99	998.89	998.90	998.91	998.91	998.93	-1.07	0.03	0.47
		998.96	998.95	998.92	998.94	998.93				

**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. 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,

(Calibration Engineer)  
 M.ADHIBAN



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,  
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.