

CALIBRATION CERTIFICATE

Page No. 1 of 1

Certificate No: SBS/CL/23/12432

Customer Name & Address

GOVERNMENT URBAN PRIMARY HEALTH CENTRE-2,
AMBUR-635802

SRF No.	SRF/23/00531-0001
SRF Date	27-09-2023
Date of Receipt	26-09-2023
Date of Calibration	27-09-2023
Due Date for Calibration	26-09-2024
Issue Date	28-09-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROLUX
Range	5-50 μ l	Model	NA
Resolution	1 μ l	Material	PVC
Serial Number	NA	Operating Range	10-50 μ l
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)	50	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 μ l

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (\pm)
1	10	9.87	9.86	9.87	9.87	9.88	9.87	-0.13	0.01	0.47
		9.88	9.86	9.87	9.88	9.89				
2	30	29.76	29.77	29.78	29.79	29.76	29.78	-0.22	0.01	0.47
		29.77	29.78	29.79	29.78	29.78				
3	50	49.88	49.87	49.88	49.87	49.88	49.87	-0.13	0.01	0.47
		49.87	49.86	49.86	49.87	49.88				

Remarks

- This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- The user should determine the suitability of the instrument for its intended use.
- 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 Grade3 as specified in ISO 3696.

Calibrated By,

M. Madhiban
(Calibration Engineer)
MADHIBAN



Authorised by:

C. Divya
(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: SRS/CL/23/12433

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Customer Name & Address

GOVERNMENT URBAN PRIMARY HEALTH CENTRE-2, AMBUR-635802.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SRF No.</td> <td>591/23/11/531/0002</td> </tr> <tr> <td>SRF Date</td> <td>27-09-2023</td> </tr> <tr> <td>Date of Receipt</td> <td>26-09-2023</td> </tr> <tr> <td>Date of Calibration</td> <td>27-09-2023</td> </tr> <tr> <td>Due Date for Calibration</td> <td>26-09-2024</td> </tr> <tr> <td>Issue Date</td> <td>28-09-2023</td> </tr> </table>	SRF No.	591/23/11/531/0002	SRF Date	27-09-2023	Date of Receipt	26-09-2023	Date of Calibration	27-09-2023	Due Date for Calibration	26-09-2024	Issue Date	28-09-2023
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Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROLUX
Range	100-1000µl	Model	NA
Resolution	10µl	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)	23.7	Humidity (%RH)	50	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	TVCSP/22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Result of Calibration in µl											Z Factor: 1.00319
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
		1	100	100.51	100.52	100.53					100.52
		100.49	100.48	100.49	100.49	100.48					
2	500	500.40	500.42	500.43	500.44	500.46	500.43	0.43	0.02	0.47	
		500.45	500.44	500.43	500.42	500.41					
3	1000	1001.24	1001.26	1001.23	1001.22	1001.22	1001.22	1.22	0.03	0.47	
		1001.18	1001.17	1001.20	1001.24	1001.26					

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 (Type 3) or Reagent Grade 3 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