

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12406	
Customer Name & Address	
GOVERNMENT PRIMARY HEALTH CENTRE, CHAVADI PALAYAM-638701, TIRUPUR DISTRICT.	SRF No. SRF/23/00503-0006
	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	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)	56	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	SBS/CP/ML/08

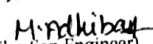
Standard Used						
SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

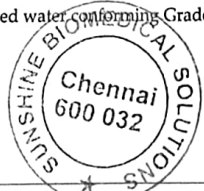
Z Factor: 1.00319


Result of Calibration in µl										
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	100.10	100.12	100.14	100.16	100.14	100.14	0.14	0.02	0.47
		100.14	100.14	100.16	100.14	100.12				
2	500	500.31	500.32	500.34	500.36	500.34	500.34	0.34	0.02	0.47
		500.32	500.34	500.36	500.34	500.34				
3	1000	1001.20	1001.22	1001.23	1001.24	1001.25	1001.25	1.25	0.03	0.47
		1001.26	1001.25	1001.27	1001.28	1001.29				

**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

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12405

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, CHAVADI PALAYAM-638701,TIRUPUR DISTRICT.	SRF No.	SRF/23/00503-0005
	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	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)	23.9	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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

**Z Factor: 1.00319**

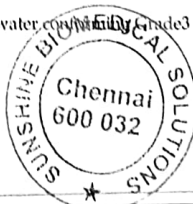
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	100.51	100.52	100.53	100.52	100.51	100.50	0.50	0.02	0.47	
		100.49	100.48	100.49	100.49	100.48					
2	500	500.40	500.42	500.43	500.44	500.46	500.43	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					

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- 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, grade3 as specified in ISO 3696.

Calibrated By,

  
 (Calibration Engineer)  
 MADHIBAN



Authorised by:

  
 (Quality Manager/Chief Executive)  
 C.SIVABALAN

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12403

Page No : 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, CHAVADI PALAYAM-638701, TIRUPUR DISTRICT.	SRF No.	SRF/23/00503-0003
	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	5-50µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	5-50µl
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**

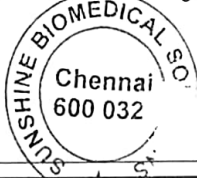
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.87	9.86	9.87	9.87	9.88	9.87	-0.13	0.01	0.47
		9.88	9.86	9.87	9.88	9.89				
2	30	29.76	29.77	29.78	29.79	29.76	29.78	-0.22	0.01	0.47
		29.77	29.78	29.79	29.78	29.78				
3	50	49.88	49.87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

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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

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12404

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, CHAVADI PALAYAM-638701, TIRUPUR DISTRICT.	SRF No.	SRF/23/00503-0004
	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	20-100µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	20-100µl
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

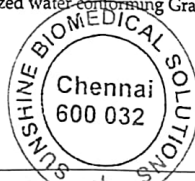
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	20	19.87	19.86	19.87	19.86	19.87	19.87	-0.13	0.01	0.47
		19.86	19.87	19.88	19.87	19.86				
2	50	49.76	49.77	49.78	49.76	49.77	49.77	-0.23	0.01	0.47
		49.77	49.76	49.76	49.77	49.78				
3	100	99.76	99.77	99.77	99.76	99.77	99.77	-0.23	0.01	0.47
		99.77	99.76	99.78	99.78	99.77				

Remarks


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Calibrated By,

  
 (Calibration Engineer)  
 MADHIBAN



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.