

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12160

Page. No : 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
SAYALKUDI-623120,RAMANATHAPURAM DISTRICT.

SRF No.	SRF/23/00554-0001
SRF Date	27-09-2023
Date of Receipt	27-09-2023
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	THERMO SCIENTIFIC
Range	100-1000µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	QW11853	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)	23.6	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**

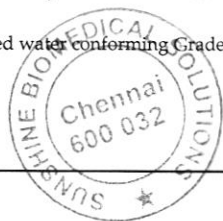
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.95	99.89	99.87	99.86	99.85	99.87	-0.13	0.03	0.47
		99.86	99.87	99.86	99.87	99.85				
2	500	499.97	499.98	499.95	499.96	499.95	499.95	-0.05	0.02	0.47
		499.92	499.94	499.93	499.94	499.95				
3	1000	999.95	999.97	999.95	999.96	999.97	999.96	-0.04	0.01	0.47
		999.95	999.97	999.96	999.97	999.98				

**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. 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/23/12161

Page. No : 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
SAYALKUDI-623120, RAMANATHAPURAM DISTRICT.

SRF No.	SRF/23/00554-0002
SRF Date	27-09-2023
Date of Receipt	27-09-2023
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	DR.PIPETTE
Range	0-200µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	GRAY	Operating Range	0-200µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

**Environmental Condition**

Temperature (°C)	23.6	Humidity (%RH)	55
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**

Sl. 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**

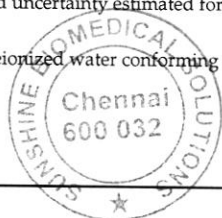
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	20	19.86	19.87	19.84	19.83	19.85	19.85	-0.15	0.01	0.47
		19.87	19.83	19.86	19.85	19.84				
2	100	99.95	99.89	99.87	99.86	99.85	99.87	-0.13	0.03	0.47
		99.86	99.87	99.86	99.87	99.85				
3	200	199.84	199.86	199.87	199.83	199.85	199.85	-0.15	0.02	0.47
		199.82	199.88	199.86	199.87	199.83				

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- 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. 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/23/12162

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
SAYALKUDI-623120, RAMANATHAPURAM DISTRICT.

SRF No.	SRF/23/00554-0003
SRF Date	27-09-2023
Date of Receipt	27-09-2023
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	DR.PIPETTE
Range	10-100µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	QW16557	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)	23.6	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	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	9.94	9.95	9.98	9.97	9.96	9.96	-0.04	0.02	0.47
		9.93	9.95	9.94	9.98	9.97				
2	50	49.92	49.97	49.93	49.95	49.94	49.94	-0.06	0.02	0.47
		49.95	49.92	49.98	49.95	49.93				
3	100	99.85	99.87	99.85	99.84	99.95	99.89	-0.11	0.04	0.47
		99.89	99.95	99.90	99.87	99.90				

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