

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13100

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, NALLANPILLAI PETRAL-604152, VILLUPURAM DISTRICT.	SRF No.	SRF/23/00588-0004
	SRF Date	05-10-2023
	Date of Receipt	05-10-2023
	Date of Calibration	05-10-2023
	Due Date for Calibration	04-10-2024
	Issue Date	06-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW03172	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. / 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**

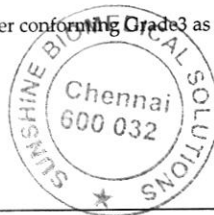
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.90	99.92	99.93	99.95	99.96	99.94	-0.06	0.02	0.47
		99.96	99.97	99.95	99.94	99.93				
2	500	499.95	499.96	499.92	499.93	499.95	499.94	-0.06	0.01	0.47
		499.92	499.93	499.95	499.94	499.95				
3	1000	999.95	999.96	999.97	999.96	999.97	999.96	-0.04	0.01	0.47
		999.95	999.96	999.97	999.95	999.97				

**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 to Grade 3 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,  
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.

**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13101

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GOVERNMENT PRIMARY HEALTH CENTRE, NALLANPILLAI PETRAL-604152,VILLUPURAM DISTRICT.	SRF No.	SRF/23/00588-0005
	SRF Date	05-10-2023
	Date of Receipt	05-10-2023
	Date of Calibration	05-10-2023
	Due Date for Calibration	04-10-2024
	Issue Date	06-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW09183	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**

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**

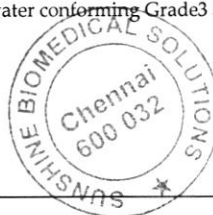
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.85	9.86	9.87	9.88	9.87	9.85	-0.15	0.02	0.47	
		9.84	9.86	9.83	9.82	9.83					
2	50.0	49.86	49.87	49.83	49.82	49.81	49.85	-0.15	0.02	0.47	
		49.87	49.86	49.86	49.87	49.85					
3	100.0	99.85	99.86	99.87	99.88	99.87	99.86	-0.14	0.02	0.47	
		99.83	99.86	99.87	99.82	99.86					

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