



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/11976

Page No : 1 of 1

Customer Name &amp; Address

GOVERNMENT PRIMARY HEALTH CENTRE, PADALUR-621109.	SRF No.	SRF/23/00450-0001
	SRF Date	28-09-2023
	Date of Receipt	26-09-2023
	Date of Calibration	28-09-2023
	Due Date for Calibration	27-09-2024
	Issue Date	29-09-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW07879	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)	23.2	Humidity (%RH)	53	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	10.0	9.87	9.86	9.88	9.88	9.88	9.87	-0.13	0.01	0.47	
		9.88	9.88	9.87	9.86	9.87					
2	50.0	49.74	49.76	49.78	49.74	49.76	49.76	-0.24	0.02	0.47	
		49.78	49.74	49.78	49.78	49.78					
3	100.0	99.84	99.86	99.87	99.87	99.88	99.87	-0.13	0.01	0.47	
		99.87	99.88	99.86	99.87	99.88					

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,

  
(Calibration Engineer)  
C.SIVABALAN



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.



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GOVERNMENT PRIMARY HEALTH CENTRE, PADALUR-621109.	SRF No.	SRF/23/00450-0002
	SRF Date	28-09-2023
	Date of Receipt	26-09-2023
	Date of Calibration	28-09-2023
	Due Date for Calibration	27-09-2024
	Issue Date	29-09-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW02539	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)	23.2	Humidity (%RH)	53	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

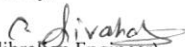
Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.94	99.95	99.92	99.96	99.94	99.94	-0.06	0.02	0.47	
		99.91	99.92	99.94	99.95	99.96					
2	500	499.85	499.87	499.88	499.87	499.89	499.88	-0.12	0.01	0.47	
		499.87	499.89	499.90	499.88	499.89					
3	1000	999.74	999.76	999.78	999.77	999.75	999.77	-0.23	0.02	0.47	
		999.75	999.77	999.78	999.77	999.79					

Remarks

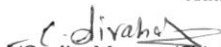
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3. The recalibration interval should be determined on the user requirement.
4. The results stated in this certificate relate only to the item calibrated.
5. Equipment used for Calibration were calibrated & traceable to National & International Standards
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.

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 (Calibration Engineer)  
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