SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/11594

Customer Name & Address		
GOVERNMENT UPGRADED PRIMARY HEALTH CENTRE, THADDIKKARANKONAM-629851.	SRF No.	SRF/23/00387-0001
	SRF Date	20-09-2023
	Date of Receipt	20-09-2023
	Date of Calibration	20-09-2023
	Due Date for Calibration	19-09-2024
	Issue Date	21-09-2023

Details of Unit Under Calibration			
Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	PW01675	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)	23.5	Humidity (%RH)	52	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 µl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.94	99.96	99.94	99.92	99.93	99.95	-0.05	0.02	0.47
		99.94	99.95	99.96	99.97	99.98				
2	500	499.85	499.86	499.87	499.89	499.86	499.87	-0.13	0.02	0.47
		499.86	499.87	499.89	499.85	499.89				
3	1000	999.96	999.97	999.98	999.96	999.95	999.96	-0.04	0.01	0.47
		999.98	999.94	999.96	999.95	999.95				

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,

C. Sivabalan

(Calibration Engineer)

C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised by:

C. Sivabalan

(Quality Manager/Chief Executive)

C.SIVABALAN