



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/11781

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, VELUR-638182.	SRF No.	SRF/23/00415-0001
	SRF Date	26-09-2023
	Date of Receipt	25-09-2023
	Date of Calibration	26-09-2023
	Due Date for Calibration	25-09-2024
	Issue Date	27-09-2023

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)	23.5	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	99.92	99.91	99.92	99.91	99.90	99.91	-0.09	0.01	0.47
		99.92	99.91	99.91	99.92	99.92				
2	500	499.67	499.68	499.67	499.68	499.67	499.68	-0.32	0.01	0.47
		499.68	499.67	499.68	499.68	499.67				
3	1000	999.98	999.65	999.99	999.63	999.62	999.70	-0.30	0.15	0.47
		999.65	999.64	999.62	999.62	999.61				

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.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.



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GOVERNMENT PRIMARY HEALTH CENTRE, VELUR-638182.	SRF No.	SRF/23/00415-0002
	SRF Date	26-09-2023
	Date of Receipt	25-09-2023
	Date of Calibration	26-09-2023
	Due Date for Calibration	25-09-2024
	Issue Date	27-09-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	NA	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)	23.5	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

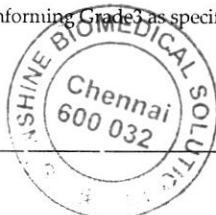
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.98	9.97	9.98	9.95	9.96	9.97	-0.03	0.01	0.47
		9.99	9.97	9.99	9.96	9.98				
2	50.0	49.98	49.99	49.97	49.96	49.99	49.98	-0.02	0.01	0.47
		49.98	49.99	49.96	49.97	49.99				
3	100.0	99.99	99.98	99.96	99.97	99.92	99.97	-0.03	0.02	0.47
		99.97	99.96	99.98	99.97	99.95				

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