

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12574

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, MANDALA MANIKAM
MANDALA MANIKAM, RAMANATHAPURAM-623605

SRF No.	SRF/23/00564-0001
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	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW10635	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)	58	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

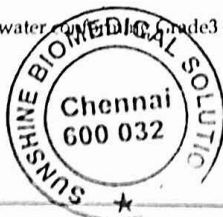
Result of Calibration in µl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.84	9.87	9.86	9.84	9.85	9.85	-0.15	0.02	0.47
		9.86	9.87	9.82	9.85	9.84				
2	50.0	49.86	49.87	49.86	49.85	49.87	49.89	-0.11	0.04	0.47
		49.90	49.91	49.97	49.89	49.90				
3	100.0	99.83	99.85	99.85	99.85	99.95	99.88	-0.12	0.04	0.47
		99.89	99.95	99.90	99.87	99.90				

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 grade 3 as specified in ISO 3696.

Calibrated By: 
(Calibration Engineer)
MRAGUL



Authorised by: 
(Quality Manager/Chief Executive)
C.SIVABALAN

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12575

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, MANDALA MANIKAM
MANDALA MANIKAM, RAMANATHAPURAM-623605

SRF No.	SRF/23/00564-0002
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	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW13139	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)	23.7	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	100	99.86	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				
2	500	499.50	499.95	499.90	499.90	499.95	499.86	-0.14	0.13	0.47
		499.89	499.88	499.85	499.85	499.90				
3	1000	999.95	999.88	999.89	999.87	999.90	999.91	-0.09	0.03	0.47
		999.93	999.90	999.91	999.94	999.95				

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 (Grade) as specified in ISO 3696.

Calibrated by:

(Calibration Engineer)
M.RAJUL



Authorized 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.