



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/09420

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, PIRANMALAI-630502.	SRF No. SRF/23/00282- 0045 SRF Date 29-07-2023 Date of Receipt 29-07-2023 Date of Calibration 29-07-2023 Due Date for Calibration 28-07-2024 Issue Date 31-07-2023
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Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100 µl	Model	FINNPIPETTE F3
Resolution	0.2 µl	Material	PVC
Serial Number	RW01360	Operating Range	10-100 µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.6	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

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	9.93	9.94	9.92	9.95	9.96	9.94	-0.06	0.02	0.47	
		9.95	9.93	9.96	9.97	9.93					
2	50	49.83	49.84	49.82	49.85	49.86	49.84	-0.16	0.02	0.47	
		49.81	49.82	49.84	49.86	49.85					
3	100	99.74	99.73	99.72	99.76	99.75	99.73	-0.27	0.02	0.47	
		99.70	99.71	99.74	99.75	99.73					

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)
 MRAGUL



Authorised by:

 Quality Manager/Chief Executive
 D.VETRI SELVI

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/23/09421

Page No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PIRANMALAI-630502.

SRF No.	SRF/23/00282- 0046
SRF Date	29-07-2023
Date of Receipt	29-07-2023
Date of Calibration	29-07-2023
Due Date for Calibration	28-07-2024
Issue Date	31-07-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROPET
Range	10-100 µl	Model	NA
Resolution	1 µl	Material	PVC
Serial Number	NA	Operating Range	10-100 µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

Environmental Condition

Calibration Method Used

Temperature (°C)	23.6	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	9.97	9.98	9.96	9.95	9.95	9.96	-0.04	0.02	0.47
		9.95	9.93	9.96	9.97	9.93				
2	50	49.95	49.96	49.97	49.96	49.95	49.95	-0.05	0.01	0.47
		49.92	49.95	49.95	49.94	49.96				
3	100	99.92	99.94	99.93	99.96	99.97	99.95	-0.05	0.02	0.47
		99.95	99.96	99.97	99.95	99.96				

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- 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)
M.RAGUL



Authorised by:


Quality Manager/Chief Executive
D.VETRI SELVI

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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Certificate No: SBS/CL/23/09419

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, PIRANMALAI-630502.	SRF No. SRF Date Date of Receipt Date of Calibration Due Date for Calibration Issue Date	SRF/23/00282- 0044 29-07-2023 29-07-2023 29-07-2023 28-07-2024 31-07-2023
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Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	NA
Range	100-1000 µl	Model	NA
Resolution	5 µl	Material	PVC
Serial Number	MH423031	Operating Range	100-1000 µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

Environmental Condition

Calibration Method Used

Temperature (°C)	23.6	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

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	99.93	99.94	99.92	99.95	99.96	99.94	-0.06	0.02	0.47
		99.95	99.93	99.96	99.97	99.93				
2	500	499.84	499.83	499.82	499.85	499.86	499.84	-0.16	0.02	0.47
		499.81	499.82	499.84	499.86	499.85				
3	1000	999.74	999.73	999.72	999.71	999.74	999.73	-0.27	0.02	0.47
		999.70	999.71	999.73	999.74	999.75				

Remarks


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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 ISO 3696 as specified in ISO 3696.

Calibrated By,


 (Calibration Engineer)
 MRAGUL



Authorised by:


 (Quality Manager/Chief Executive)
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