

**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13665 Page No: 1 of 1

Customer Name & Address		SRF No.	SRF/23/00792-0003
GOVERNMENT PRIMARY HEALTH CENTRE, SEERPANANDHAL,KALLAKURICHI DISTRICT.		SRF Date	07-10-2023
		Date of Receipt	07-10-2023
		Date of Calibration	07-10-2023
		Due Date for Calibration	06-10-2024
		Issue Date	07-10-2023

Details of Unit Under Calibration			
Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPEPTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW112022	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)	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. / Sl. 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

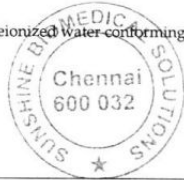
Z Factor: 1.00319


Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.94	9.97	9.94	9.96	9.93	9.95	-0.05	0.02	0.47	
		9.98	9.95	9.92	9.97	9.96					
2	50.0	49.85	49.86	49.87	49.82	49.83	49.85	-0.15	0.02	0.47	
		49.87	49.85	49.82	49.89	49.87					
3	100.0	99.94	99.97	99.96	99.95	99.98	99.95	-0.05	0.02	0.47	
		99.93	99.95	99.97	99.94	99.95					

**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 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.

**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13666 Page No: 1 of 1

<b>Customer Name &amp; Address</b>		SRF No.	SRF/23/00792-0004
GOVERNMENT PRIMARY HEALTH CENTRE, SEERPANANDHAL,KALLAKURICHI DISTRICT.		SRF Date	07-10-2023
		Date of Receipt	07-10-2023
		Date of Calibration	07-10-2023
		Due Date for Calibration	06-10-2024
		Issue Date	07-10-2023

<b>Details of Unit Under Calibration</b>			
Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW109670	Operating Range	100-1000µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

<b>Environmental Condition</b>				<b>Calibration Method Used</b>	
Temperature (°C)	23.9	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

<b>Standard Used</b>						
Sl. No.	Description	ID.No. / Sl. 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**

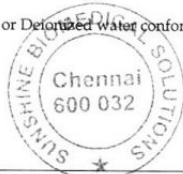
<b>Result of Calibration in µl</b>											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.85	99.87	99.85	99.84	99.95	99.89	-0.11	0.04	0.47	
		99.89	99.95	99.90	99.87	99.90					
2	500	499.90	499.95	499.90	499.90	499.95	499.90	-0.10	0.03	0.47	
		499.89	499.88	499.85	499.85	499.90					
3	1000	999.89	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					

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- 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

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No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
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**CALIBRATION CERTIFICATE**

Certificate No: SBS/CL/23/13667		Page No: 1 of 1
Customer Name & Address		
GOVERNMENT PRIMARY HEALTH CENTRE, SEERPANANDHAL,KALLAKURICHI DISTRICT.	SRF No.	SRF/23/00792-0005
	SRF Date	07-10-2023
	Date of Receipt	07-10-2023
	Date of Calibration	07-10-2023
	Due Date for Calibration	06-10-2024
	Issue Date	07-10-2023

Details of Unit Under Calibration			
Description	Micro Pipette	Make	MICROLUX
Range	100-1000µl	Model	NA
Resolution	1µl	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)	23.9	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

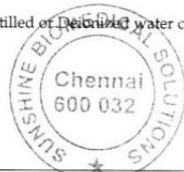
**Z Factor: 1.00319**

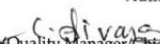
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.94	99.96	99.97	99.98	99.94	99.95	-0.05	0.02	0.47	
		99.93	99.95	99.97	99.92	99.98					
2	500	499.90	499.95	499.90	99.92	99.98	419.90	-80.10	168.63	0.47	
		499.89	499.88	499.85	499.85	499.90					
3	1000	999.89	999.88	999.89	999.87	999.90	999.88	-0.12	0.02	0.47	
		999.84	999.90	999.91	999.85	999.87					

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