



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12350 Page. No : 1 of 1

Customer Name & Address			
GOVERNMENT PRIMARY HEALTH CENTRE, SEMBANUR-630305,SIVAGANGAI DISTRICT.	SRF No.	SRF/23/00464-0006	
	SRF Date	30-09-2023	
	Date of Receipt	29-09-2023	
	Date of Calibration	30-09-2023	
	Due Date for Calibration	29-09-2024	
	Issue Date	30-09-2023	

Details of Unit Under Calibration			
Description	Micro Pipette	Make	THERMO SCIENMTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW01475	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)	23.8	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

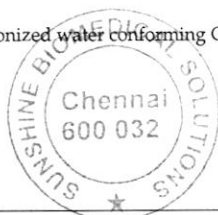
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.86	9.87	9.85	9.84	9.83	9.84	-0.16	0.02	0.47
		9.82	9.87	9.84	9.83	9.81				
2	50.0	49.95	49.97	49.96	49.98	49.95	49.96	-0.04	0.02	0.47
		49.97	49.93	49.95	49.98	49.92				
3	100.0	99.85	99.85	99.85	99.85	99.95	99.89	-0.11	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 conforming Grade3 as specified in ISO 3696.

Calibrated By,

M. Adhiban
(Calibration Engineer)
M.ADHIBAN



Authorised by:

C. Sivabalan
(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/23/12351 Page. No : 1 of 1

Customer Name & Address		
GOVERNMENT PRIMARY HEALTH CENTRE, SEMBANUR-630305,SIVAGANGAI DISTRICT.	SRF No.	SRF/23/00464-0007
	SRF Date	30-09-2023
	Date of Receipt	29-09-2023
	Date of Calibration	30-09-2023
	Due Date for Calibration	29-09-2024
	Issue Date	30-09-2023

Details of Unit Under Calibration			
Description	Micro Pipette	Make	ERBA
Range	20µl FIXED	Model	BIOHIT
Resolution		Material	PVC
Serial Number	7067606	Operating Range	20µl FIXED
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY


Environmental Condition				Calibration Method Used	
Temperature (°C)	23.8	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	20	19.94	19.97	19.95	19.96	19.94	19.95	-0.05	0.02	0.47
		19.95	19.93	19.98	19.95	19.97				

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- 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.ADHIBAN



Authorised by:

 (Quality Manager/Chief Executive)
 C.SIVABALAN

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12352

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
SEMBANUR-630305,SIVAGANGAI DISTRICT.

SRF No.	SRF/23/00464-0008
SRF Date	30-09-2023
Date of Receipt	29-09-2023
Date of Calibration	30-09-2023
Due Date for Calibration	29-09-2024
Issue Date	30-09-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICROLUX
Range	5-50µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	10-50µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

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	9.86	9.87	9.85	9.84	9.83	9.84	-0.16	0.02	0.47
		9.82	9.87	9.84	9.83	9.81				
2	30	29.84	29.87	29.86	29.85	29.87	29.86	-0.14	0.02	0.47
		29.86	29.83	29.89	29.85	29.84				
3	50	49.95	49.97	49.96	49.98	49.95	49.96	-0.04	0.02	0.47
		49.97	49.93	49.95	49.98	49.92				

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- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

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E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12353

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
SEMBANUR-630305,SIVAGANGAI DISTRICT.

SRF No.	SRF/23/00464-0009
SRF Date	30-09-2023
Date of Receipt	29-09-2023
Date of Calibration	30-09-2023
Due Date for Calibration	29-09-2024
Issue Date	30-09-2023

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)	23.9	Humidity (%RH)	57	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

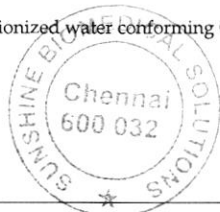
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.85	99.85	99.85	99.85	99.95	99.89	-0.11	0.04	0.47
		99.89	99.95	99.90	99.87	99.90				
2	500	499.90	499.95	499.90	499.90	499.95	499.90	-0.10	0.03	0.47
		499.89	499.88	499.85	499.85	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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