

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/03866

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
ARAKKONAM BLOCK, GURUVARAJAPETTAI-631101, RANIPET DISTRICT.

SRF No.	SRF/23/00143-0003
SRF Date	04-04-2023
Date of Receipt	01-04-2023
Date of Calibration	04-04-2023
Due Date for Calibration	03-04-2024
Issue Date	05-04-2023

**Details of Unit Under Calibration**

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

**Environmental Condition**

**Calibration Method Used**

Temperature (°C)	23.6	Humidity (%RH)	51	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	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	9.87	9.86	9.87	9.87	9.88	9.87	-0.13	0.01	0.47
		9.88	9.86	9.87	9.88	9.89				
2	30	29.76	29.77	29.78	29.79	29.76	29.78	-0.22	0.01	0.47
		29.77	29.78	29.79	29.78	29.78				
3	50	49.88	49.87	49.88	49.87	49.88	49.87	-0.13	0.01	0.47
		49.87	49.86	49.86	49.87	49.88				

**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)  
P.MYLSAMY



Authorised by:

(Quality Manager/Chief Executive)  
D.VETRI SELVI

## SUNSHINE BIOMEDICAL SOLUTIONS



## CALIBRATION CERTIFICATE

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Certificate No: SBS/CL/23/03864

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
ARAKKONAM BLOCK, GURUVARAJAPETTAI-631101, RANIPET DISTRICT.

SRF No.	SRF/23/00143-0001
SRF Date	04-04-2023
Date of Receipt	01-04-2023
Date of Calibration	04-04-2023
Due Date for Calibration	03-04-2024
Issue Date	05-04-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100 $\mu$ l	Model	FINNPIPETTE F3
Resolution	0.2 $\mu$ l	Material	PVC
Serial Number	RW09343	Operating Range	10-100 $\mu$ l
ID Number		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**

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  $\mu$ l**

SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )
1	10.0	9.87	9.86	9.87	9.86	9.87	9.86	-0.14	0.01	0.47
		9.86	9.82	9.86	9.87	9.86				
2	50.0	49.46	49.47	49.48	49.47	49.46	49.48	-0.52	0.01	0.47
		49.47	49.48	49.48	49.49	49.49				
3	100.0	99.37	99.38	99.39	99.31	99.40	99.40	-0.60	0.04	0.47
		99.42	99.42	99.44	99.44	99.45				

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

Calibrated By,

(Calibration Engineer)  
P.MYILSAMY



Authorised by:

(Quality Manager/Chief Executive)  
D.VETRI SELVI

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/03867

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**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, ARAKKONAM BLOCK, GURUVARAJAPETTAI-631101, RANIPET DISTRICT.	SRF No.	SRF/23/00143-0004
	SRF Date	04-04-2023
	Date of Receipt	01-04-2023
	Date of Calibration	04-04-2023
	Due Date for Calibration	03-04-2024
	Issue Date	05-04-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW12481	Operating Range	100-1000µl
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

**Environmental Condition**
**Calibration Method Used**

Temperature (°C)	23.4	Humidity (%RH)	52	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	TVCSP12/12/2115-01	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	99.94	99.91	99.90	99.92	99.92	-0.08	0.01	0.47
		99.94	99.93	99.92	99.91	99.92				
2	500	499.04	498.99	499.05	499.02	499.04	499.01	-0.99	0.03	0.47
		498.96	498.99	499.02	499.03	498.99				
3	1000	998.99	998.89	998.90	998.91	998.91	998.93	-1.07	0.03	0.47
		998.96	998.95	998.92	998.94	998.93				

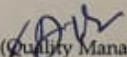
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- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

  
 (Calibration Engineer)  
 P. MYILSAMY


Authorised by:

  
 (Quality Manager/Chief Executive)  
 D. VETRI SELVI



## CALIBRATION CERTIFICATE

Page No: 1 of 1

Certificate No: SBS/CL/23/03865

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
ARAKKONAM BLOCK, GURUVARAJAPETTAI-631101, RANIPET DISTRICT.

SRF No.	SRF/23/00143-0002
SRF Date	04-04-2023
Date of Receipt	01-04-2023
Date of Calibration	04-04-2023
Due Date for Calibration	03-04-2024
Issue Date	05-04-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICROLUX
Range	100-1000 $\mu$ l	Model	NA
Resolution	10 $\mu$ l	Material	PVC
Serial Number	NA	Operating Range	100-1000 $\mu$ l
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition

Calibration Method Used

Temperature ( $^{\circ}$ C)	23.6	Humidity (%RH)	51	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature ( $^{\circ}$ 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  $\mu$ l

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )
1	100	100.51	100.52	100.53	100.52	100.51	100.50	0.50	0.02	0.47
		100.49	100.48	100.49	100.49	100.48				
2	500	500.40	500.42	500.43	500.44	500.46	500.43	0.43	0.02	0.47
		500.45	500.44	500.43	500.42	500.41				
3	1000	1001.24	1001.26	1001.23	1001.22	1001.22	1001.22	1.22	0.03	0.47
		1001.18	1001.17	1001.20	1001.24	1001.26				

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### SUNSHINE BIOMEDICAL SOLUTIONS

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