



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15790

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, PERUVALAPUR-621651,TRICHY DISTRICT.	SRF No.	SRF/23/00951-0001
	SRF Date	25-10-2023
	Date of Receipt	23-10-2023
	Date of Calibration	25-10-2023
	Due Date for Calibration	24-10-2024
	Issue Date	26-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	BIO SYSTEM SHINE
Range	100-1000µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	BS634	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

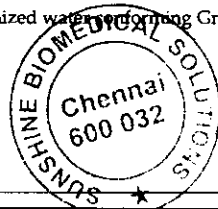
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.95	99.96	99.94	99.98	99.96	99.96	-0.04	0.01	0.47
		99.96	99.97	99.98	99.97	99.95				
2	500	499.95	499.96	499.95	499.96	499.97	499.96	-0.04	0.01	0.47
		499.96	499.97	499.98	499.98	499.96				
3	1000	999.98	999.97	999.95	999.96	999.97	999.97	-0.03	0.01	0.47
		999.96	999.97	999.98	999.96	999.97				

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 of reagent 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

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Certificate No: SBS/CL/23/15791

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, PERUVALAPUR-621651, TRICHY DISTRICT.	SRF No.	SRF/23/00951-0002
	SRF Date	25-10-2023
	Date of Receipt	23-10-2023
	Date of Calibration	25-10-2023
	Due Date for Calibration	24-10-2024
	Issue Date	26-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	BIO SYSTEM SHINE
Range	100µl	Model	NA
Resolution	FIXED	Material	PVC
Serial Number	BS1948	Operating Range	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

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

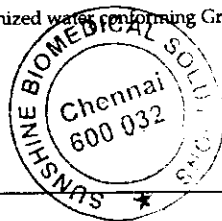
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.91	99.92	99.90	99.92	99.91	99.92	-0.08	0.02	0.47
		99.95	99.96	99.94	99.92	99.91				

Remarks

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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)
 M.RAGUL



Authorised by:

(Quality Manager/Chief Executive)
 C.SIVABALAN

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15792

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, PERUVALAPUR-621651, TRICHY DISTRICT.	SRF No.	SRF/23/00951-0003
	SRF Date	25-10-2023
	Date of Receipt	23-10-2023
	Date of Calibration	25-10-2023
	Due Date for Calibration	24-10-2024
	Issue Date	26-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	DIAGNOPETTE
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)	23.9	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

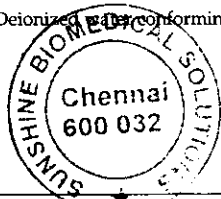
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.96	9.97	9.96	9.97	9.98	9.95	-0.05	0.02	0.47
		9.95	9.94	9.92	9.93	9.92				
2	30	29.85	29.86	29.87	29.85	29.84	29.84	-0.16	0.02	0.47
		29.82	29.83	29.82	29.81	29.82				
3	50	49.99	49.98	49.97	49.98	49.98	49.86	-0.14	0.32	0.47
		49.92	49.91	49.93	49.94	48.96				

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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)
 M.RAGUL



Authorised by:

Quality Manager/Chief Executive
 C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/15793 Page No : 1 of 1

Customer Name & Address		SRF No.	SRF/23/00951-0004
GOVERNMENT PRIMARY HEALTH CENTRE, PERUVALAPUR-621651,TRICHY DISTRICT.		SRF Date	25-10-2023
		Date of Receipt	23-10-2023
		Date of Calibration	25-10-2023
		Due Date for Calibration	24-10-2024
		Issue Date	26-10-2023

Details of Unit Under Calibration			
Description	MICRO PIPETTE	Make	DIAGNOPETTE
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)	23.9	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

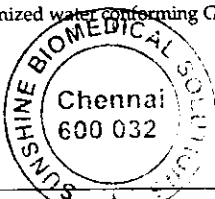
Result of Calibration in µl										
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.77	9.78	9.79	9.78	9.77	9.77	-0.23	0.02	0.47
		9.75	9.76	9.75	9.76	9.74				
2	30	29.85	29.86	29.87	29.85	29.86	29.85	-0.15	0.01	0.47
		29.84	29.86	29.85	29.83	29.84				
3	50	49.96	49.97	49.97	49.98	49.95	49.96	-0.04	0.01	0.47
		49.96	49.97	49.95	49.96	49.97				

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7. 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,
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CALIBRATION CERTIFICATE

Page No: 1 of 1

Certificate No: SBS/CL/23/15794

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
PERUVALAPUR-621651, TRICHY DISTRICT.

SRF No.	SRF/23/00951-0005
SRF Date	25-10-2023
Date of Receipt	23-10-2023
Date of Calibration	25-10-2023
Due Date for Calibration	24-10-2024
Issue Date	26-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	MICROPET
Range	2-20µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	10-20µl
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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

Result of Calibration in µl

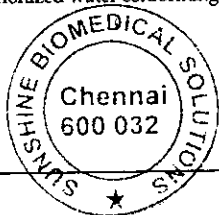
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.77	9.78	9.79	9.78	9.77	9.77	-0.23	0.02	0.47
		9.75	9.76	9.75	9.76	9.74				
2	20	19.85	19.86	19.87	19.85	19.86	19.84	-0.16	0.02	0.47
		19.84	19.82	19.83	19.84	19.82				

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Calibrated By,

M. Ragul
(Calibration Engineer)
M.RAGUL



Authorised by:

C. Sivaralan
(Quality Manager/Chief Executive)
C.SIVABALAN

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