SUNSHINE

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/22-23/04473

GOVERNMENT PRIMARY HEALTH CENTRE, MURUKKANGUDI-621133.	SRF No.	SBS/SRF/22-23/0086-011
	SRF Date	03-06-2022
	Date of Receipt	06-06-2022
	Date of Calibration	06-06-2022
	Due Date for Calibration	05-06-2023
	Issue Date	06-06-2022

Details of Unit Under Calibration

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

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 Semi Micro Balance	15112918	TVCSPL21/12/1587-01	A&D & GH-252	National Standards	10-12-2022

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	99.65	99.67	99.64	99.65	99.63	99.72	-0.28	0.09	0.47
		99.63	99.83	99.82	99.83	99.82				
2	500	499.75	499.76	499.74	499.76	499.77	499.75	-0.25	0.01	0.47
		499.75	499.74	499.75	499.76	499.76				
3	1000	999.56	999.54	999.53	999.56	999.53	999.53	-0.47	0.02	0.47
		999.52	999.51	999.54	999.53	999.52				

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.

Checked & Issued by:

(Calibration Engineer)
M.BALAJI

SUNSHINE BIOMEDICAL SCI. Chennai 600 032

Authorised by:

(Quality Manager/Chief Executive)
D.VETRI SELVI

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/22-23/04475

GOVERNMENT PRIMARY HEALTH CENTRE, MURUKKANGUDI-621133.	SRF No.	SBS/SRF/22-23/0086-013
	SRF Date	03-06-2022
	Date of Receipt	06-06-2022
	Date of Calibration	06-06-2022
	Due Date for Calibration	05-06-2023
	Issue Date	06-06-2022

Details of Unit Under Calibration

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1 µl	Material	PVC
Serial Number	QW10230	Operating Range	100-1000µl
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

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 Semi Micro Balance	15112918	TVCSPL21/12/1587-01	A&D & GH-252	National Standards	10-12-2022

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	99.92	99.88	-0.12	0.03	0.47
		99.89	99.89	99.89	99.89	99.90				
2	500	499.89	499.88	499.92	499.92	499.92	499.88	-0.12	0.03	0.47
		499.87	499.86	499.85	499.86	499.87				
3	1000	999.80	999.86	999.80	999.85	999.79	999.86	-0.14	0.05	0.47
		999.90	999.90	999.90	999.90	999.89				

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.

Checked & Issued by:
(Calibration Engineer)
M.BALAJI

SUNSHINE BIOMEDICAL SOLUTIONS Chennai 600 032

Authorised by:
(Quality Manager/Chief Executive)
D.VETRI SELVI

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/22-23/04476

GOVERNMENT PRIMARY HEALTH CENTRE,
MURUKKANGUDI-621133.

SRF No.	SBS/SRF/22-23/0086-014
SRF Date	03-06-2022
Date of Receipt	06-06-2022
Date of Calibration	06-06-2022
Due Date for Calibration	05-06-2023
Issue Date	06-06-2022

Details of Unit Under Calibration

Description	Micro Pipette	Make	NA
Range	100µl FIXED	Model	NA
Resolution	-	Material	PVC
Serial Number	NA	Operating Range	100µl FIXED
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

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 Semi Micro Balance	15112918	TVCSPL21/12/1587-01	A&D & GH-252	National Standards	10-12-2022

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	99.92	99.88	-0.12	0.03	0.47
		99.89	99.89	99.89	99.89	99.90				

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.

Checked & Issued by:

(Calibration Engineer)
M.BALAJI

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Authorised by:

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/22-23/04477

GOVERNMENT PRIMARY HEALTH CENTRE, MURUKKANGUDI-621133.	SRF No.	SBS/SRF/22-23/0086-015
	SRF Date	03-06-2022
	Date of Receipt	06-06-2022
	Date of Calibration	06-06-2022
	Due Date for Calibration	05-06-2023
	Issue Date	06-06-2022

Details of Unit Under Calibration

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	1 µl	Material	PVC
Serial Number	PW16602	Operating Range	10-100µl
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

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 Semi Micro Balance	15112918	TVCSPL21/12/1587-01	A&D & GH-252	National Standards	10-12-2022

Result of Calibration in µl — Z Factor: 1.00319

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.89	9.88	9.87	9.86	9.84	9.87	-0.13	0.01	0.47
		9.86	9.87	9.87	9.86	9.86				
2	50	49.92	49.94	49.96	49.93	49.92	49.92	-0.08	0.02	0.47
		49.91	49.92	49.92	49.91	49.91				
3	100	99.89	99.88	99.86	99.87	99.86	99.87	-0.13	0.01	0.47
		99.88	99.86	99.87	99.86	99.86				

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.

Checked & Issued by:

(Calibration Engineer)
M.BALAJI

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Authorised by:

(Quality Manager/Chief Executive)
D.VETRI SELVI

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/22-23/04474

GOVERNMENT PRIMARY HEALTH CENTRE, MURUKKANGUDI-621133.	SRF No.	SBS/SRF/22-23/0086-012
	SRF Date	03-06-2022
	Date of Receipt	06-06-2022
	Date of Calibration	06-06-2022
	Due Date for Calibration	05-06-2023
	Date of Issue	06-06-2022

Details of Unit Under Calibration

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

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.8	Humidity (%RH)	54	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 Semi Micro Balance	15112918	TVCSPL21/12/1587-01	A&D & GH-252	National Standards	10-12-2022

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	9.89	9.88	9.87	9.88	9.86	9.86	-0.14	0.02	0.47
		9.86	9.84	9.86	9.84	9.84				
2	50	49.86	49.84	49.88	49.84	49.86	49.84	-0.16	0.02	0.47
		49.84	49.82	49.83	49.82	49.82				
3	100	99.82	99.84	99.86	99.84	99.86	99.86	-0.14	0.02	0.47
		99.88	99.86	99.87	99.86	99.86				

Remarks

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