

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12582

Page. No : 1 of 1

Customer Name & Address

NESAVALAR COLONY UPHC
NESAVALAR COLONY, TIRUPPUR-641602

SRF No.	SRF/23/00558-0001
SRF Date	26-09-2023
Date of Receipt	25-09-2023
Date of Calibration	26-09-2023
Due Date for Calibration	25-09-2024
Issue Date	30-09-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW10441	Operating Range	10-100µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition

Temperature (°C)	23.9	Humidity (%RH)	58
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6

Calibration Method Used

National / International Standard	ISO 8655-6:2002
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

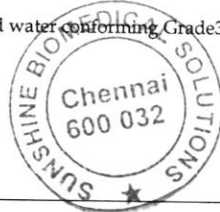
Result of Calibration in µl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.88	9.87	9.86	9.84	9.85	9.85	-0.15	0.02	0.47
		9.83	9.87	9.82	9.85	9.84				
2	50.0	49.87	49.87	49.86	49.85	49.87	49.89	-0.11	0.03	0.47
		49.90	49.91	49.97	49.89	49.90				
3	100.0	99.83	99.85	99.85	99.85	99.95	99.88	-0.12	0.04	0.47
		99.85	99.95	99.90	99.87	99.90				

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,
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/23/12583

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Customer Name & Address

NASAVALAR COLONY,UPHC
NESAVALAR COLONY,TIRUPPUR-641602

SRF No.	SRF/23/00558-0002
SRF Date	26-09-2023
Date of Receipt	25-09-2023
Date of Calibration	26-09-2023
Due Date for Calibration	25-09-2024
Issue Date	30-09-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICRO LUX
Range	5-50µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	5-50µl
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)	58	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

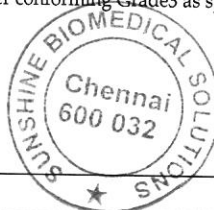
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	9.95	9.96	9.97	9.93	9.95	9.96	-0.04	0.01	0.47
		9.96	9.95	9.98	9.96	9.97				
2	30	29.96	29.98	29.95	29.97	29.96	29.96	-0.05	0.02	0.47
		29.94	29.95	29.97	29.93	29.94				
3	50	49.86	49.86	49.87	49.82	49.95	49.86	-0.14	0.04	0.47
		49.86	49.87	49.83	49.82	49.85				

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- 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

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12584

Page. No : 1 of 1

Customer Name & Address

NESAVALAR COLONY,UPHC
NESAVALAR COLONY,TIRUPPUR-641602

SRF No.	SRF/23/00558-0003
SRF Date	26-09-2023
Date of Receipt	25-09-2023
Date of Calibration	26-09-2023
Due Date for Calibration	25-09-2024
Issue Date	30-09-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICRO LUX
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)	23.7	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

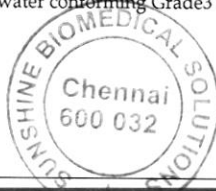
Result of Calibration in µl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.85	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	499.46	499.95	499.90	499.90	499.95	499.85	-0.15	0.14	0.47
		499.89	499.88	499.85	499.85	499.90				
3	1000	999.95	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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7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

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(Calibration Engineer)
M.ADHIBAN



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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12585

Page. No : 1 of 1

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NESAVALAR COLONY,TIRUPPUR-641602

SRF No.	SRF/23/00558-0004
SRF Date	26-09-2023
Date of Receipt	25-09-2023
Date of Calibration	26-09-2023
Due Date for Calibration	25-09-2024
Issue Date	30-09-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW13373	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)	23.7	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

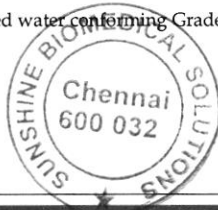
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		499.89	499.88	499.85	499.85	499.90				
3	1000	999.94	999.88	999.89	999.87	999.90	999.91	-0.09	0.03	0.47
		999.93	999.90	999.91	999.94	999.95				

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