

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12436

Page No 1 of 1

**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE-1,  
AMBUR-635807.

SRF No.	SRF/23/00533-0001
SRF Date	27-09-2023
Date of Receipt	26-09-2023
Date of Calibration	27-09-2023
Due Date for Calibration	26-09-2024
Issue Date	28-09-2023

**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	RW09806	Operating Range	10-100 $\mu$ l
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  $\mu$ l**

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )
1	10.0	9.88	9.87	9.86	9.87	9.86	9.87	-0.13	0.01	0.47
		9.87	9.88	9.87	9.86	9.88				
2	50.0	49.76	49.77	49.78	49.76	49.77	49.77	-0.23	0.01	0.47
		49.77	49.76	49.76	49.77	49.78				
3	100.0	99.84	99.86	99.87	99.88	99.87	99.86	-0.14	0.01	0.47
		99.86	99.87	99.86	99.87	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 to Grade 3 as specified in ISO 3696.

Calibrated By:

*M. Prithivas*  
(Calibration Engineer)  
MADHIBAN



Authorised by:

*C. Sivabalan*  
(Quality Management Executive)  
C SIVABALAN

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12437

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**Customer Name & Address**

GOVERNMENT URBAN PRIMARY HEALTH CENTRE-1,  
AMBUR-635807.

SRF No.	SRF/23/00533-0002
SRF Date	27-09-2023
Date of Receipt	26-09-2023
Date of Calibration	27-09-2023
Due Date for Calibration	26-09-2024
Issue Date	28-09-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000 $\mu$ l	Model	FINNPIPETTE F3
Resolution	1 $\mu$ l	Material	PVC
Serial Number	RW12460	Operating Range	100-1000 $\mu$ l
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)	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**

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  $\mu$ l**

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )
1	100	100.10	100.12	100.14	100.16	100.14	100.14	0.14	0.02	0.47
		100.14	100.14	100.16	100.14	100.12				
2	500	500.31	500.32	500.34	500.36	500.34	500.34	0.34	0.02	0.47
		500.32	500.34	500.36	500.34	500.34				
3	1000	1001.20	1001.22	1001.23	1001.24	1001.25	1001.25	1.25	0.03	0.47
		1001.26	1001.25	1001.27	1001.28	1001.29				

**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 of Quality Grade3 as specified in ISO 3696.

Calibrated By,

*M. Adhivan*  
(Calibration Engineer)  
MADHIBAN



Authorised by:

*C. Sivabalan*  
(Quality Manager/Chief Executive)  
C.SIVABALAN