

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12375

Customer Name & Address

GOVERNMENT UPGRADED PRIMARY HEALTH CENTRE,
ACHARAPAKKAM-603301, CHENGALPATTU DISTRICT.

SRF No.	SRF/23/00512-0005
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	DROPS
Range	100-1000µl	Model	LIQUID HANDLING SYSTEM
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

Temperature (°C)	23.8	Humidity (%RH)	54
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	100	99.24	99.26	99.29	99.28	99.26	99.27	-0.73	0.02	0.47
		99.26	99.28	99.29	99.27	99.27				
2	500	499.76	499.77	499.78	499.79	499.78	499.77	-0.23	0.01	0.47
		499.77	499.76	499.79	499.78	499.76				
3	1000	999.86	999.87	999.86	999.86	999.87	999.87	-0.13	0.01	0.47
		999.87	999.86	999.87	999.88	999.88				

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,

M. Adhiban
(Calibration Engineer)
M.ADHIBAN



Authorised by:

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

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12374

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Customer Name & Address

GOVERNMENT UPGRADED PRIMARY HEALTH CENTRE, ACHARAPAKKAM-603301, CHENGALPATTU DISTRICT.	SRF No.	SRF/23/00512-0004
	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	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW02786	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)	23.6	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

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP/L22/12/2115-01	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	99.86	99.87	99.88	99.87	99.88	99.87	-0.13	0.01	0.47
		99.87	99.88	99.87	99.88	99.88				
2	500	498.87	498.86	498.87	498.86	498.87	498.87	-1.13	0.01	0.47
		498.86	498.87	498.86	498.87	498.88				
3	1000	999.76	999.77	999.76	999.76	999.77	998.97	-1.03	2.53	0.47
		991.78	999.79	999.79	999.76	999.76				

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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 containing Grade 3 as specified in ISO 3696.

Calibrated By,


 (Calibration Engineer)
 M.ADHIBAN



Authorised by:


 (Quality Manager/Chief Executive)
 C.SIVABALAN

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/12373

Page No: 1 of 1

Customer Name & Address

GOVERNMENT UPGRADED PRIMARY HEALTH CENTRE, ACHARAPAKKAM-603301, CHENGALPATTU DISTRICT.	SRF No.	SRF/23/00512-0003
	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	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW07905	Operating Range	10-100µl
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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

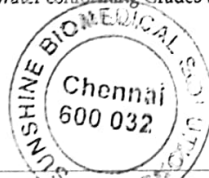
Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.88	9.87	9.86	9.87	9.86	9.87	-0.13	0.01	0.47	
		9.57	9.88	9.87	9.86	9.88					
2	50.0	49.76	49.77	49.78	49.76	49.77	49.77	-0.23	0.01	0.47	
		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					

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Calibrated By,

M. Adhibas
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