

## CALIBRATION CERTIFICATE

1. Customer Name:	M/s.CLUEPATH DIAGNOSTICS LLP, No.19A, New High School Road, VV Puram, Bangalore - 560004	6. Certificate No:	RCPL/23-24/ML/I5353-03
		7.ULR No:	CC221523000018722F
		8.Date of Issue:	27-11-2023
2. SRF No:	I5353	9.Date of Calibration:	17-11-2023
3. Date of SRF/Receipt:	17-11-2023	10. Next Cal Due:	16-11-2024
4. Discipline:	Mechanical Calibration	11. Calibration SOP no:	RCPL/SOP/ML-21
5. Calibrated At:	Mass & Volume Lab	12. Condition of DUC on Receipt:	Satisfactory

13. ENVIRONMENTAL CONDITION : Temperature: 20.68 °C, Humidity: 56.14 %RH  
Ambient Pressure: : 911.8 hpa, Water Temperature: 20.3 °C

14. DUC DETAILS:

Nomenclature :	Micropipette	Serial No:	PW04357
Make & Model :	Thermo Scientific & Finnpiette F3	Code/ID No :	CPD/EQP/05
Range :	10 to 100 µl	Resolution:	0.2 µl

15. STANDARD INSTRUMENT USED:

Nomenclature:	Electronic Semi Micro Balance	Serial No:	33604236
Make / Model :	Sartorius / CPA225D	Cal Due Date:	10-09-2024
Range :	0 to 220g	Traceable to:	True Value Calibration Services Pvt. Ltd., Chennai
Certificate No:	TVC SPL 23/09/991-01		

16. CALIBRATION RESULTS:

Parameter: Volume

Sl. No.	DUC Value	Standard value	Systematic Error	Permissible Systematic Error ±	Random Error	Permissible Random Error ±	Measurement Uncertainty±
	µl	µl	µl	µl	µl	µl	µl
1	11	10.88	0.12	0.20	0.03	0.10	0.16
2	50	49.73	0.27	0.50	0.11	0.20	0.16
3	100	99.55	0.45	0.80	0.13	0.30	0.16

17. REMARKS & CONCLUSION:

- Reported Values of DUC are Average of 10 Measuring Series.
- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.
- Calibration certificate issued for Pipette is used for scientific or industrial purpose only.
- Calibration of pipette is done as per ISO8655-6 & Permissible Systematic & Random error are given as per ISO 8655-2
- Coefficient of cubic thermal expansion ( $^{\circ}\text{C}^{-1} \times 10^{-6}$ ) of Borosilicate Glass 5.0 is  $15 \times 10^{-6}$ .
- The measurement data reported is "As found" - Without any Adjustment.
- This Certificate refer only to particular item submitted for Calibration.
- Volume at the reference temperature of 27°C, V27 from the apparent mass of water.
- The Std.used for calibration are calibrated and Traceable to National/International Standards.

Calibrated By

  
MOHAN KUMAR  
CALIBRATION ENGINEER



\*\*\*End of certificate\*\*\*

Authorized Signatory

  
MANJUNATH CHANDAKI  
DY TECHNICAL MANAGER

FM-GL-67