

CALIBRATION CERTIFICATE

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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/15353-01
		7.U.L.R No:	CC221523000018720F
		8.Date of Issue:	27-11-2023
2. SRF No:	15353	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: 20.47 °C, Humidity: 56.58 %RH

Ambient Pressure : 911.5 hpa, Water Temperature: 20.2 °C

14. DUC DETAILS:

Nomenclature :	Micropipette	Serial. No:	YB225AX0315338
Make & Model :	-- & DRAGON LAB	Code/ID No :	CPD/EQP/04
Range :	100 to 1000 µl	Resolution:	5 µl
Location:	Laboratory		

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:	TVCSPCL 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	100	100.48	-0.48	0.80	0.10	0.30	0.16
2	500	502.26	-2.26	4.00	0.26	1.50	0.46
3	1000	1004.74	-4.74	8.00	0.12	3.00	0.46

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 (°C⁻¹ × 10⁻⁶) of Borosilicate Glass 5.0 is 15 × 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


NAGARAJ
CALIBRATION ENGINEER



End of certificate

Authorized Signatory



FM-GL-67