



QUALITY CALIBRATION LABORATORY

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QCL/FF/25

CALIBRATION CERTIFICATE

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ULR No : CC339423200000122F	Certificate No	: QCL23MVL0127-04
Customer name & address: M/S.BIOLINE LABORATORY 6,7 & 15,Dolly Arcade,New Nagole, LB Nagar,Ranga Reddy District, Hyderabad - 500068, Telangana.	Issue Date	: 12-10-2023
	Discipline	: Mechanical-Volume
	SRF No	: L0127
	Date of Receipt	: 12-10-2023
	Calibration Date	: 12-10-2023
	Recommended Due Date	: 11-10-2024

Details of Unit Under Calibration(UUC)

Description	: MICRO PIPETTE
Make	: Thermo Scientific
Range	: 100 to 1000 µl
Resolution	: 1 µl
SL. No	: -----
ID.No	: BL/PP-04
Physical Condition	: Good

Environmental Condition

Standard Temperature	: 25±4°C	Standard Relative Humidity	: 50±10%R.H
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Details of the Standard Instrument Used for Calibration

S NO	Instrument name	Validity	Traceability
1.	Analytical Weight Box(E2 class) Make: WEIGH INDIA, ID.No:QCL/M/WB-E2/01	16-01-2025	Cert. No:TYE/W/01/2023/0005
2.	Weighing Balance Make: RADWAG, ID.No : QCL/M/SMB/001	13-12-2023	Cert. No:TC/9537/2022

CALIBRATION METHOD : QCL/WI/MV-04 based on ISO 8655-6

CALIBRATION RESULTS

Sl.No	Nominal volume (µl)	Standard Reading(µl)	Error(µl)	Expanded Uncertainty ±(Ue)(µl)
1	100.0	100.21	-0.21	1.13
2	250.0	250.26	-0.26	1.13
3	500.0	500.65	-0.65	1.13
4	750.0	751.12	-1.12	1.13
5	1000.0	1001.19	-1.19	1.13

Remarks:

- 1) The above UUC was calibrated at LAB.
- 2) This calibration certificate is applicable to the item calibrated only.
- 3) All calibrations are traceable to national measurement standards as per the traceability details Given in the certificate.
- 4) The calibration results reported are valid at the time of and under the conditions of measurement.
- 5) This certificate shall not be reproduced except in full, unless specific approval from Managing director, Quality Calibration Laboratory is obtained.
- 6) This calibration certificate is meant for scientific and industrial purpose only.
- 7) The NABL Symbol is used as per NABL Guidelines in NABL-133
- 8) The calibration interval is determined based on customer's requirements.
- 9) The Measurement Uncertainty is reported approximately at 95% confidence level with Coverage factor k=2
- 10) The volumetric readings given above are expressed at a reference temperature of 27°C.
- 11) To use this instrument at other temperatures use this formula $V_{27} = V_T (1 - \gamma (t - 27))$.
Where, V_T = Volume measured at temperature $t^\circ\text{C}$ (ml), V_{27} = Volume measured at 27°C (ml)
 γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Arun
Calibrated by



D Veera Swamy
Authorized Signatory
Technical Manager
D VEERA SWAMY

END OF CALIBRATION CERTIFICATE