

SIMCO CALIBRATION LABORATORY

(A Division of : Sharp Industrial Machinery Maintenance Co. Pvt. Ltd.)

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CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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Certificate No. : SL2203MVL0160-001	Issue Date : 01-04-2022
1. Customer Name & Address: M/s. Likhithas Diagnostics and Speciality Lab, Zenrise, Plot No. 201, Mythrinagar, NH-65, Madinaguda, Miyapur, Hyd-500 049.	ULR - CC 2 8 0 6 2 2 2 0 0 0 0 8 7 9 F
	Reference Date : 31-03-2022
	Calibration Date : 01-04-2022
	Calibration Due Date : 31-03-2023

2. Details of Unit Under Calibration:

Description : Micro Pipette	
Make : Thermo Scientific	Id No. : LDSL/CL/MP-02
Range : 5-50 µl	
Resolution : 0.1 µl	
SI No. : SW03307	

3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No.	Valid up to	Certificate No.
Ultra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105MVS0165-001

4. Environmental Conditions: Standard Temperature : (23±2)°C Relative Humidity : (50±10) % RH

Air Pressure : (900-1100)hpa

5. Calibration Procedure: SOP-MP-01

6. Mechanical Calibration: Volume

7. Calibration Results:

S No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	5.0	5.0036	0.0036	0.1	0.5	0.2	0.06
2	25.0	25.0059	0.0059	0.1	0.5	0.2	0.07
3	50.0	50.0046	0.0046	0.1	0.5	0.2	0.07

8. Remarks:

- The instrument/equipment was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
- This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
- This calibration certificate is meant for scientific and industrial purpose only.
- The NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95.45% confidence level with coverage factor k = 2
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below
 $V_{27} = V_T (1 - \gamma (t-27))$
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 $^\circ\text{C}$)

Moumika
Calibrated by

N.V. Kameswara Rao
Technical Manager
Authorised Signatory