

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. : SL2212MVL0533-004	Issue Date : 10-12-2022
1. Customer Name & Address: M/s. Telangana Diagnostic (TD Hub), Opposite Emergency Ward, Distic Hospital (RIMS), Adilabad -504001.	ULR - CC 2 8 0 6 2 2 2 0 0 0 0 2 9 9 6 F
	Reference Date : 06-12-2022
	Calibration Date : 07-12-2022
	Calibration Due Date : 06-12-2023

2. Details of Unit Under Calibration:

Description	: Micro Pipette
Make	: Thermo Scientific
Range	: 10-100 µl
Resolution	: 0.2 µl
SI No.	: RW00419

3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/UMB/01	11-11-2023	SL2211MVS0229-001

4. Environmental Conditions: Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH

Air Pressure : (900-1100)hpa Thermal Stabilization : 24 hrs

5. Calibration Procedure: SOP-MVL-02

6. Standard Procedures: OIML R 111-1:2004 & OIML D28:2004

7. Mechanical Calibration: Mass

8. Calibration Results:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	10	10.0032	0.0032	0.1	0.8	0.3	0.91
2	50	50.0049	0.0049	0.1	0.8	0.3	0.91
3	100	100.0052	0.0052	0.1	0.8	0.3	0.91

9. Remarks:

- The instrument 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% 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 /°C)

Calibrated by

Mrs. P.A. Anandam
Technical Head
Authorised Signatory