



IC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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Certificate No. : SL2301MVL0003-003		Issue Date : 03-01-2023
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub, Rajanna Sircilla, Opp MRO Office Vidya Nagar - 502 103.		ULR - C C 2 8 0 6 2 3 2 0 0 0 0 0 1 0 F
		Reference Date : 02-01-2023
		Calibration Date : 03-01-2023
		Calibration Due Date : 02-01-2024

### 2. Details of Unit Under Calibration:

Description	Micro Pipette
Make	Thermo Scientific
Range	1000 µl
SI No.	RW05473

### 3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No	Valid up to	Certificate No.
Weighing Balance	SL/PMM/SMB/02	13-11-2023	SL2211MVS0229-004

4. Environmental Conditions: Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

5. Calibration Procedure: SOP-MVL-03

6. Standard Procedures: IS/ISO 8655-6 2022, ISO/TR 20461:2000&IS/ISO 4787:2010

7. Mechanical Calibration: Volume

### 8. 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	1000	1000.47	0.47	0.1	8.0	3.0	23.91

### 9. 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  $27^\circ\text{C}$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^\circ\text{C}^{-1}$ )

Calibration by

Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory