

# 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

Page 1 of 1

<b>Certificate No. : SL2212MVL0533-002</b>	<b>Issue Date : 10-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostic (TD Hub), Opposite Emergency Ward, Distic Hospital (RIMS), Adilabad -504001.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 0 2 9 9 4 F</b>
	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	: 500 µl
SI No.	: QW15447

### 3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/SMB/01	11-11-2023	SL2211MVS0229-002

**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	500	500.43	0.43	0.1	8.0	3.0	23.91

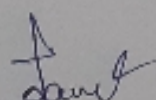
### 9. Remarks:

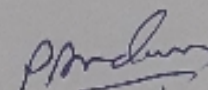
- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based 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  $27^\circ\text{C}$  (ml)

$\gamma$  = coefficient of cubical expansion of P pette tips (0.00024  $^\circ\text{C}$ )

  
Calibrated by

  
Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory