

SIMCO CALIBRATION LABORATORY

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

SIMCOTM
AN ISO 9001 : 2015
CERTIFIED COMPANY

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CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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Certificate No. : SIMCO/2011/381/MVL/09	Issue Date : 18/11/2020
1. Customer Name & Address: M/s. St Theresa's Multi Speciality Hospital, Erragadda, Hyderabad.	ULR- CC 280620200002320F
	Reference Date : 16/11/2020 Calibration Date : 17/11/2020 Calibration Due Date : 16/11/2021

2. Details of Instrument Under Calibration:

Description : Micro Pipette	ID.No : STH-BME-LAB-PPT-009
Make : UNIPET	Location : Microbiology
Range : 500 µl	S.No : 1886

3. Details of Standard Instruments Used :

Instrument Used	Serial/ID. No.	Valid up to	Certificate No.
Semi Micro Balance	SL/PMM/SMB/01	31/05/2021	SIMCO/2006/192/MVL/02

4. Environmental Conditions:

Standard Temperature : (23±2)°C

Relative Humidity : (50±10)% Rh

Air Pressure : (900-1100)hpa

Actual Temperature : 24.3 °C

Actual Relative Humidity : 50.6 % Rh

Actual Air Pressure : (953)hpa

5. Calibration Procedure : SOP-MP-01

6. Mechanical Calibration (Mass & Volume)

7. Calibration Results:

Sl. No.	Instrument Reading (µl)	Measured Value (µl)	Error (µl)	Expanded Uncertainty in (Ue) ± (µl)
1	500	500.49	0.49	0.13

8. 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 Measurement Uncertainty is reported approximately at 95% confidence level with coverage factor $k = 2$.
- 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)

A.Pawan
Calibrated by

N.V. Kameswara Rao
N.V. Kameswara Rao
Technical Manager
AUTHORISED SIGNATORY