

# SIMCO CALIBRATION LABORATORY

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

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CC-2806

**SIMCO**  
N ISO 9001 : 2015  
CERTIFIED COMPANY

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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F10-CC-03

<b>Certificate No. : SL2203MVL0160-002</b>	<b>Issue Date : 01-04-2022</b>
<b>1. Customer Name &amp; Address:</b> M/s. Likhithas Diagnostics and Speciality Lab, Zenrise, Plot No. 201, Mythinagar, NH-65, Madinaguda, Miyapur, Hyd-500 049.	<b>ULR - CC 2 8 0 6 2 2 2 0 0 0 0 8 8 0 F</b>
	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	Id No. : LDSL/CL/MP-01
Make : Thermo Scientific	
Range : 100-1000 µl	
Resolution : 1 µl	
SI No. : SW01513	

### 3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No.	Valid up to	Certificate No.
Semi Micro Balance	SL/PMM/SMB/01	30-05-2022	SL2105MVS0165-002

**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	100	100.25	0.25	0.1	8.0	3.0	0.13
2	500	500.35	0.35	0.1	8.0	3.0	0.13
3	1000	1000.26	0.26	0.1	8.0	3.0	0.13

### 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  $27^\circ\text{C}$  (ml)

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

Moujika  
Calibrated by

N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory