

# SIMCO CALIBRATION LABORATORY

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

10-3-74/27, Plot No.151, Street No.3, Teacher's Colony, East Marredpally, Secunderabad - 26, Telangana.

Tel: 040 2773 2341/342, 2773 1510, Mob: 77299 91231/33, 98480 46524.

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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:
- a The instrument/equipment was received in good condition and was calibrated at Lab.
  - b This certificate pertains only to the item calibrated.
  - c The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
  - d The calibration interval is determined based on customer's requirements.
  - e The calibration is traceable to National standards as per traceability details given in the certificate.
  - f This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
  - g This calibration certificate is meant for scientific and industrial purpose only.
  - h The NABL Symbol is used as per NABL guidelines in NABL-133.
  - i The Expanded Uncertainty is reported approximately at 95.45% confidence level with coverage factor  $k = 2$
  - j Random Error are taken as round up value.
  - k 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 ( $0.00024^\circ\text{C}$ )

Calibrated by *[Signature]*

*[Signature]*  
Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory

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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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Certificate No. : SL2212PS0456-002	Issue Date : 31-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub, Rajanna Sircilla, Opp MRO Office Vidya Nagar - 502 103.	ULR - CC 2 8 0 6 2 2 1 0 0 0 4 5 6 3 F
	Reference Date : 29-12-2022
	Calibration Date : 30-12-2022
	Calibration Due Date : 29-12-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGKN-26043
Make : REMI	
Range : Upto to 6000 RPM	
Resolution : 10 RPM	
Model No : R-8C plus	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Digital Tachometer	175-0010V	30-03-2023	C-220326-7-1

4. Environmental Conditions: Standard Temperature : (24±4)°C Relative Humidity : (50±20) % RH

5. Calibration Procedure: SOP-PE-08

6. Mechanical Calibration: Speed

### 7. Calibration Results:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	499.7	500	0.3	6
2	999.1	1000	0.9	6
3	1998.5	2000	1.5	6
4	2997.8	3000	2.2	6
5	4995.8	5000	4.2	6

### 8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
- 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  $k=2$ .

K. B. Prasad  
Calibrated by

N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory