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

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Certificate No. : SIMCO/2012/403/MVL/01	Issue Date : 23/12/2020	
1. Customer Name & Address:	ULR- CC 280620200002484 F	
M/s. Aswini Diagnostics	0ER- CC 28 0 0 2 0 2 0 0 0 0 2 4 8 4	
29-12-4, Venkataratnam Street,	Reference Date : 22/12/2020	
Suryaraopet, Vijayawada-520 002.	Calibration Date : 23/12/2020	
	Calibration Due Date · 22/12/2021	

2. Details of Instrument Under Calibration:

Description	:	Micro Pipette		
Make	:	P'fact	S.No : 368017	
Range	:	100-1000 μΙ		

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 Actual Temperature : 23.4 °C Relative Humidity: (50±10)% Rh Actual Relative Humidity: 52.4 % Rh Air Pressure: (900-1100)hpa Actual Air Pressure: (953)hpa

5. Calibration Procedure:

SOP-MP-01

6. Mechanical Calibration (Mass & Volume)

7. Calibration Results:

	Instrument	Measured	Systematic	Random	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µI)
SI. No.	Reading (µI) Value (µI) Erro	Error (µI)	rror (µl) Error (µl)	Systematic	Random		
1	100	98.12	-1.88	1.0	8.0	3.0	0.13
2	500	497.63	-2.37	1.0	8.0	3.0	0.13
3	1000	997.71	-2.29	1.0	8.0	3.0	0.13

8. Remarks:

- a The instrument 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 Measurement Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2.
- i Random Error are taken as round up value.
- k To use this instrument at other temperatures use the formula given below

V27 = VT (1- y (t-27)).

where, VT = Volume measured at temperature $t^{\circ}C$ (ml),V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Mounika Calibrated by N.V. Kameswara Rao Technical Manager AUTHORISED SIGNATORY