SIMCO CALIBRATION LABORATORY

TM
SIMCO
AN ISO 9001 : 2015
CERTIFIED COMPANY

(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

Certificate No. : SIMCO/2012/403/MVL/02	**Issue Date : 23/12/2020**
1. Customer Name & Address: **M/s. Aswini Diagnostics** 29-12-4, Venkataratnam Street, Suryaraopet, Vijayawada-520 002.	**ULR- CC280620200002485F** Reference Date : 22/12/2020 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	:	365066
Range	:	10-100 µl			

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:

Sl. No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	10	9.65	-0.35	0.1	0.8	0.3	0.07
2	50	49.82	-0.18	0.1	0.8	0.3	0.07
3	100	99.75	-0.25	0.1	0.8	0.3	0.07

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.
j Random Error are taken as round up value.
k To use this instrument at other temperatures use the formula given below

$V27 = VT (1- \gamma (t-27))$.

where, VT = Volume measured at temperature t°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