



ADDING VALUE

ROOTS INDUSTRIES INDIA LIMITED

ROOTS METROLOGY & TESTING LABORATORY

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CC-2752

CALIBRATION CERTIFICATE

Issued Date:06-06-2022

ULR Number:CC275222000031880F

- 1.0 REPORT NO. : RMTL/01/322101275-A4
- 2.0 NAME & ADDRESS OF THE CUSTOMER : M/s. ALPHA LIFECARE ,
No.17 Bashyam Street, Manjakuppam ,
Cuddalore - 607001.
- 3.0 CUSTOMER'S REFERENCE : DC.NO#57 - 18/05/2022
- 4.0 DESCRIPTION OF ITEM : MICRO PIPETTE
L.C : 1 µl
Range : 100-1000 µl
Make : ---
Location: Lab
- 5.0 IDENTIFICATION /SL.NO. : 21403405
- 6.0 DATE OF RECEIPT OF ITEM : 02-06-2022
- 7.0 DATE OF CALIBRATION : 02-06-2022
- 8.0 NEXT CALIBRATION DUE : 01-06-2023

DETAILS OF MASTER USED

Standard Instrument Used	Make	ID NO.	Traceable to/Certificate No.	Validity
Electronic Weighing Balance	Radwag	RML 142	LCGC,Hyderabad/TC/8472/2022	25/02/2023

The masters are traceable to National / International standards

- 9.0 CALIBRATION PROCEDURE REF.NO. : RMTL/WI/410
- 10.0 REFERENCE DOCUMENT : ISO 8655-6 : 2002
- 11.0 ENVIRONMENTAL CONDITIONS DURING CALIBRATION : Temperature : 23.6°C
Humidity : 49.8 % RH
Atmospheric pressure : 1010.1 hpa
- 12.0 TIPS USED FOR CALIBRATION : 1000 µl
- 13.0 MEDIUM USED FOR WEIGHING : Grade III - Water As Per ISO : 3696
- 14.0 DENSITY CORRECTION FACTOR (Z) : 1.0034 µl/mg
- 15.0 ESTIMATED UNCERTAINTY OF MEASUREMENT (AT CONFIDENCE LEVEL OF APPROXIMATELY 95% FOR A COVERAGE FACTOR k=2) : As Reported
- 16.0 RESULT OF CALIBRATION : Refer sheet 2
- 17.0 The reported results are valid only for the condition of the Items received at the time of and under the stated conditions of the calibration.

CALIBRATED BY (CALIBRATION ENGINEER)

AUTHORIZED BY (QM/TM/DY.TM/St.Er)

M.PRASANNAVENKATESH

S.SARAVANAKUMAR

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of 2

CALIBRATION CERTIFICATE

REPORT NO. : RMTL/01/322101275-A4
 NAME OF THE CUSTOMER : M/s. ALPHA LIFECARE,
 No.17 Bashyam Street, Manjakuppam,
 Cuddalore - 607001.

MICRO PIPETTE

L.C : 1 µl
 Range : 100-1000 µl
 Make : ---
 Ident./Sl.No. 21403405

Condition of Receipt Item : Satisfactory

CALIBRATION RESULT :

(All Values in µl)

Sl.No	Nominal Volume	Calibrated Values					Mean Value	Systematic Error (es)	Random Error (Sr)	Measurement Uncertainty
1	100.0	100.105	100.141	100.112	100.116	100.189	100.141	0.141	0.029	0.193
		100.124	100.129	100.157	100.163	100.177				
2	500.0	499.337	499.553	499.616	499.327	499.526	499.429	0.571	0.106	3.856
		499.328	499.421	499.426	499.439	499.321				
3	1000.0	998.526	998.524	998.526	998.525	998.520	998.535	1.465	0.015	3.873
		998.521	998.542	998.551	998.561	998.551				

Label Status:

*White : Calibrated & The results are stated as indicated.

CALIBRATED BY (CALIBRATION ENGINEER)

AUTHORIZED BY (QM/TM/DY.TM/Sr.Er)

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M.PRASANNAVENKATESH

S.SARAVANAKUMAR

2 of 2

Calibration

White : Calibrated

Green : Accepted - Valid for use

Label / Status :

Yellow : Limited use (Refer report)

Red : Rejected-Out of use (Refer report)

* NEXT CALIBRATION DUE AS PER CUSTOMERS PLAN AND REQUIREMENT