



**ROOTS INDUSTRIES INDIA LIMITED**  
**ROOTS METROLOGY & TESTING LABORATORY**  
 R.K.G. Industrial Estate, Ganapathy, Coimbatore - 641 006, INDIA  
 Phone : 0422 - 4330145 / 4330146 / 4330147 Fax : 0422 - 2332107, E-mail : rilmetlab@roots.co.in  
**CALIBRATION CERTIFICATE**



Issued Date : 30-08-2022

ULR Number : CC275222000061056F

- 1.0 REPORT NO. : RMTL/01/322104467-A3
- 2.0 NAME & ADDRESS OF THE CUSTOMER : M/S. Redcliffe diagnostics  
HSR layout sector 6th 1st floor, Sarathy  
Bengaluru KARNATAKA Pincode -560102
- 3.0 CUSTOMER'S REFERENCE : SRF - 24/08/2022
- 4.0 DESCRIPTION OF ITEM : MICRO PIPETTE  
L.C : 0.5 µl  
Range : 10 to 100 µl  
Make : PFact  
Model : ---
- 5.0 IDENTIFICATION NO. / SR. No. : QF602121
- 6.0 DATE OF RECEIPT OF ITEM : 24/08/2022
- 7.0 DATE OF CALIBRATION : 26/08/2022
- 8.0 NEXT CALIBRATION DUE : 25/08/2023

DETAILS OF MASTER USED				
Standard Instrument Used	Make	ID NO.	Traceable to/Certificate No.	Validity
Electronic Weighing Balance - 1µg to 21g	Radwag	RML 142	LCGC,Hyderabad/TC/7199/2021	01/03/2022
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 : 23.4°C  
Humidity : 49.3% RH  
Atmospheric pressure : 958 hpa
- 12.0 MEDIUM USED FOR WEIGHING : Grade III - Water As Per ISO : 3696
- 13.0 DENSITY CORRECTION FACTOR (Z) : 1.0034 µl/mg
- 14.0 ESTIMATED UNCERTAINTY OF MEASUREMENT (AT CONFIDENCE LEVEL OF APPROXIMATELY 95% FOR A COVERAGE FACTOR k=2) : As Reported
- 15.0 RESULT OF CALIBRATION : Refer page 2
- 16.0 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)	This Report refers only to the sample submitted and may not be reproduces in full or in part, without written permission from Roots Metrology & Testing Laboratory, Coimbatore.	1 of 2

\* NEXT CALIBRATION DUE AS PER CUSTOMER'S PLAN AND REQUIREMENT



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NAME OF THE CUSTOMER : M/S. Redcliffe diagnostics  
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0

#### MICRO PIPETTE

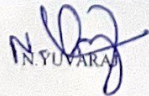

L.C : 0.5 µl  
Range : 10 to 100 µl  
Make : P'Fact  
Ident.No. QF602121

Condition of Receipt Item : Satisfactor

#### CALIBRATION RESULT :

(All Values in µl)

Sl.No	Nominal Volume	Calibrated Values					Mean Value	Systematic Error (es)	Random Error (Sr)	Measurement Uncertainty (±)
1	10.0	9.996	9.998	9.996	9.995	9.995	9.995	0.005	0.002	0.21
		9.993	9.995	9.997	9.995	9.992				
2	50.0	49.990	49.992	49.988	49.991	49.985	49.988	0.012	0.003	0.21
		49.983	49.985	49.985	49.988	49.991				
3	100.0	99.982	99.982	99.985	99.980	99.983	99.983	0.017	0.002	0.23
		99.984	99.985	99.981	99.980	99.983				

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 N. YUVARAJ		 R. KAMALAKANNAN		
Calibration Label / Status :	White : Calibrated <input checked="" type="checkbox"/>	Green : Accepted - Valid for use <input type="checkbox"/>	* NEXT CALIBRATION DUE AS PER CUSTOMERS PLAN AND REQUIREMENT	
	Yellow : Limited use (Refer report) <input type="checkbox"/>	Red : Rejected-Out of use (Refer report) <input type="checkbox"/>		