



**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 : CC27522000061054F

- 1.0 REPORT NO. : RMTL/01/322104467-A1  
 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 : 5 µl  
 Range : 100 to 1000 µl  
 Make : P'Fact  
 Model : ---  
 5.0 IDENTIFICATION NO. / SR. No. : QF601799  
 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/8472/2022	24/Feb/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 : 23.4°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/Sr.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.

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



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 NAME OF THE CUSTOMER : M/S. Redcliffe diagnostics  
 HSR layout sector 6th 1st floor, Sarathy  
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**MICRO PIPETTE**

L.C : 5  $\mu$ l  
 Range : 100 to 1000  $\mu$ l  
 Make : PFact  
 Ident.No. QF601799

Condition of Receipt Item : Satisfactor

**CALIBRATION RESULT :**

(All Values in  $\mu$ l)

Sl.No	Nominal Volume	Calibrated Values					Mean Value	Systematic Error (es)	Random Error (Sr)	Measurement Uncertainty ( $\pm$ )
1	100	100.004	100.008	100.008	100.008	100.008	100.009	0.009	0.002	0.96
		100.012	100.009	100.008	100.009	100.012				
2	500	500.014	500.016	500.014	500.013	500.016	500.016	0.016	0.002	0.96
		500.018	500.015	500.017	500.016	500.018				
3	1000	1000.024	1000.023	1000.022	1000.025	1000.026	1000.024	0.024	0.002	0.96
		1000.024	1000.020	1000.026	1000.024	1000.025				

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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"/>		