



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 : rilmelab@roots.co.in



CALIBRATION CERTIFICATE

Issued Date : 30-08-2022

ULR Number : CC275222000061955F

- 1.0 REPORT NO. : RMTL/01/322104467-A4
- 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 - 29/08/2022
- 4.0 DESCRIPTION OF ITEM : MICRO PIPETTE
L.C : 5 μ l
Range : 100 to 1000 μ l
Make : P'Fact
Model : ---
- 5.0 IDENTIFICATION NO. / SR. No. : QF601725
- 6.0 DATE OF RECEIPT OF ITEM : 29/08/2022
- 7.0 DATE OF CALIBRATION : 30/08/2022
- 8.0 NEXT CALIBRATION DUE : 29/08/2023

DETAILS OF MASTER USED

Standard Instrument Used	Make	ID NO.	Traceable to/Certificate No.	Validity
Electronic Weighing Balance - 1 μ g 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 μ l/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)

M. YUVARAJ

R. KAMALAKANNAN

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

FORM # RMTL/FT/76 : 05.08.2021



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REPORT NO. : RMTL/01/322104467-A4
NAME OF THE CUSTOMER : M/S. Redcliffe diagnostics
HSR layout sector 6th 1st floor, Sarathy
Bengaluru KARNATAKA Pincode -560102

MICRO PIPETTE

LC : 5 µl
Range : 100 to 1000 µl
Make : P'Fact
Ident.No. QF601725

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	100	99.995	99.993	99.997	99.992	99.996	99.993	0.007	0.002	0.96
		99.990	99.992	99.993	99.991	99.994				
2	500	499.983	499.98	499.982	499.978	499.979	499.980	0.020	0.003	0.96
		499.980	499.983	499.975	499.978	499.981				
3	1000	999.971	999.976	999.973	999.980	999.976	999.972	0.028	0.005	0.96
		999.971	999.975	999.968	999.964	999.970				

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 N. V. V. ARJUN	 R. K. MALAKANNAN	

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"/>	