

CALIBRATION CERTIFICATE

Customer Name & Address : I Qure Pathlabs & Diagnostic Centre.,
No.479,6th Main Road,HMT Layout,

Opp BMTc Bus Depot, R T Nagar,Bangalore-560032

Customer's Reference: SRF No.: 1484 Dated : 01 Sep 2023

Calibration Certificate Number	Calibrated On	Recommended Calibration Due	Page Number
UC/23/1484-02	02 Sep 2023	01 Sep 2024	1 of 2

ULR No CC299623000003114F Date of issue: 05 Sep 2023

Details of device under calibration (DUC):

DUC : Micro Pipette	Calibration Procedure No. : UC/CAL/205
Make : Dragon Lab	No. of Pages : 2
Range : 100-1000µl	DUC Received : 01 Sep 2023
SI No. : YE195AL0406613	DUC Condition on receipt : Satisfactory
ID No. : ----	Cal At : Mass Lab,Ultracal

Environmental Conditions: Temp. :(23 ± 2)°C ,Relative Hum.:(40 to 60)%, Atm.Pressure:911.9mbar

Standards used:

Sl. No.	Nomenclature	Make	Sl. No/ID No	Traceable to/ Cert. No.	Validity
1	Electronic Balance	Radweg	573977	LCGC / TC/10332/2023	04 July 2024

Note:

- 1.The Calibration Certificate relates only to the above DUC
- 2.Publication or reproduction of this certificate in any form other than by complete set of the whole certificate & in the language, written, is not permitted without the written consent of Ultracal.
- 3.Corrections/erasing, invalidate the Calibration certificate
- 4.Calibration of the DUC are traceable to National standards/International Standards
- 5.Any error in this certificate should be brought to our knowledge within 45 days from the date of this certificate.
- 6.Results Reported are valid at the time of and under the stated conditions of measurements.
- 7.The usage of NABL Symbol is as per NABL guidelines NABL 133

Calibrated By



Spoorthi.N.M

(Calibration Engineer)

Authorised By



(Technical Manager)





Calibration Certificate Number

UC/23/1484-02

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ULR No: CC299623000003114F

Range : 100 - 1000 μl
Increment : 5 μl

Sl. No.	Micropipette Set Volume in μl	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in μl	Average Volume in μl	Systematic Error, \pm in μl	Random Error, in \pm in μl
1	100	0.09906	99.41	99.51	-0.49	0.28
2		0.09958	99.93			
3		0.09887	99.22			
4		0.09952	99.87			
5		0.09946	99.81			
6		0.09881	99.16			
7		0.09909	99.44			
8		0.09893	99.28			
9		0.09923	99.58			
10		0.09905	99.40			
11	500	0.50103	502.79	502.83	2.83	0.41
12		0.50034	502.10			
13		0.50059	502.35			
14		0.50132	503.08			
15		0.50134	503.10			
16		0.50104	502.80			
17		0.50178	503.54			
18		0.50132	503.08			
19		0.50089	502.65			
20		0.50104	502.80			
21	1000	1.00220	1005.72	1005.72	5.72	1.01
22		1.00036	1003.88			
23		1.00313	1006.66			
24		1.00175	1005.27			
25		1.00276	1006.29			
26		1.00065	1004.17			
27		1.00256	1006.08			
28		1.00321	1006.74			
29		1.00314	1006.67			
30		1.00221	1005.73			

Measurement Uncertainty : \pm

0.30 μl upto 100 μl
1.27 μl above 100 μl

Conclusion / Remarks:

- 1 Measurement uncertainty is at confidence level 95% which corresponds to a coverage factor of $k=2.26$
- 2 Calibration is performed as per ISO 8655 - 6 : 2002 (E)
- 3 Gravimetric Method is adopted for calibration

Calibrated By

Spoorthi.N.M

(Calibration Engineer)

Authorised By

Shreyas.B.V

(Technical Manager)

