



# Ultra Cal

# 42, 1st Floor, 60 Feet Main Road, Srinivasanagar,  
Pattegarapalya, Bengaluru, Karnataka - 560072  
info@ultra-cal.com



CC-2996

## 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/23/1484-01	02 Sep 2023	01 Sep 2024	1 of 2

ULR No.: CC299623000003113F      **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 : 5-50µl	DUC Received : 01 Sep 2023
SI No. : YE202AM0110490	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:912.1mbar

### 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

Authorised By

(Technical Manager)

(Calibration Engineer)



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Calibration Certificate Number

UC/23/1484-01

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ULR No.: CC299623000003113F

Range : 5-50  $\mu\text{l}$   
Increment : 0.5  $\mu\text{l}$

Sl. No.	Micropipette Set Volume in $\mu\text{l}$	Standard Balance Reading in g	Actual Calculated Volume @ 27°C in $\mu\text{l}$	Average Volume in $\mu\text{l}$	Systematic Error, $\pm$ in $\mu\text{l}$	Random Error, in $\pm$ in $\mu\text{l}$
1	10	0.00981	9.84	9.91	-0.09	0.07
2		0.00979	9.82			
3		0.00997	10.01			
4		0.00982	9.85			
5		0.00995	9.99			
6		0.00982	9.85			
7		0.00996	10.00			
8		0.00989	9.92			
9		0.00991	9.94			
10		0.00983	9.86			
11	25	0.02513	25.22	25.12	0.12	0.11
12		0.02487	24.96			
13		0.02513	25.22			
14		0.02517	25.26			
15		0.02497	25.06			
16		0.02511	25.20			
17		0.02495	25.04			
18		0.02503	25.12			
19		0.02489	24.98			
20		0.02507	25.16			
21	50	0.04977	49.95	50.17	0.17	0.17
22		0.05002	50.20			
23		0.05011	50.29			
24		0.05009	50.27			
25		0.04997	50.15			
26		0.04974	49.92			
27		0.05013	50.31			
28		0.05021	50.39			
29		0.05011	50.29			
30		0.04979	49.97			

Measurement Uncertainty :  $\pm$  0.30  $\mu\text{l}$

**Conclusion / Remarks:**

- 1 Measurement uncertainty is at confidence level 95% which corresponds to a coverage factor of  $k=2.23$
- 2 Calibration is performed as per ISO 8655 - 6 : 2002 ( E )
- 3 Gravimetric Method is adopted for calibration
- 4 Calibration points selected as per customer request

Calibrated By

Spoorthi.N.M  
(Calibration Engineer)

Authorised By

Sreyas.B.V  
(Technical Manager)

