



# ARCHERCAL Private Limited

(Formerly known as Archerchem Calibrations Pvt Ltd)

Laboratory : Unit No. B/103, Tanvi's Tanishka Industrial Estate, Tanvi Complex, Near HP Petrol Pump, Dahisar (East), Mumbai - 400 068. India. • Tel.: +91 22 20892984 E-mail: sales1@archercal.com / admin@archercal.com • Website: www@archercal.com

CIN: U74999MH2018PTC304510



## CALIBRATION CERTIFICATE

7.8/R/M&V-01,Rev.00

Certificate No.: ACPL/MV/L/0602/02/23-24

ULR No.: CC230123000004375F

Date of Calibration:

Next Recommended Calibration Due Date:

06-04-2023

Issue Date:

07-04-2023

05-04-2024

Page:

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CUSTOMER NAME &

ADDRESS

: THE LAB BEYOND EXCELLENCE

A2, 001/002, Prabhakar CHS LTD, Station Rd, Sector 4, Shanti Nagar,

Mira Road East, Mumbai, Maharashtra 401107

DATE OF RECEIPT

: 05-04-2023

CALIBRATED AT

: Lab

INSTRUMENT

: Micropipette

ID. NO.

: TLP/MP/02

CONDITION OF ITEM

: Good

CALIBRATION PROCEDURE

: WI/APL/CAL/MV/04

ISO 8655-6 (Latest Edition)

ENVIRONMENTAL

CONDITION

: Temperature :

23 ± 1 °C

Air Pressure :

1010 ± 30 hPa

Relative Humidity:

50 ± 10 % RH

Water Temperature:

23.4 °C

Z Correction Factor (µl/mg)

1.00360

Y Correction Factor ((1/°C)x°C)

1.00162

TRACEABILITY

: This Certificate is issued in the field of calibration and provides traceability of

measurement results to International systems of units (SI)

CALIBRATIONS RESULTS

: The results have been presented on pages(s) 2 of this certificate including

uncertainty of measurements.

UNCERTAINTY OF

MEASUREMENT

: The uncertainty stated is the expanded uncertainty of measurement obtained

by multiplying the standard uncertainty by the coverage factor k=2

correspondes to confidence level of 95%.

CONFORMITY STATEMENT

: On the Basis of Calibration results, it has been found that instruments submitted

for calibration meets the requirements specified in standard 8655

REMARKS

: The measured values mentioned are the average of 10 readings

: The Reported Volume at 27°C is by the formula.

 $V_{27}^{\circ}C (\mu l)=m(mg) \times Z(\mu l/mg) \times Y((1/^{\circ}C)\times^{\circ}C).$ 

: The test liquid used for calibration is distilled water as per ISO3696 requirement.

Calibrated By:

Sapana Valdya Calibration Engineer MUMBA

Approved By:

Kailas Chilap Technical Director





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### Micropipette

Make:	VTTALPETTE	Range:	5 - 50 µl	
Model:	make /	Least Count :	0.1 µl	
Sr.No.:	12104334	Accuracy:	As per ISO 8655-2	
Tag/Id.No.:	TLP/MP/02	Location		

Discipline: Mechanical Calibration

Product Group: Mass & Volume - Volume

#### Measurement Result:

Sr. No.	Nominal Volume in µl	1	2	3	4	5	6	7	8	9	10	Volume at 27°C (Average)
						Mass of	Nater in mg	i		-	2-168)	in µl
1	5	5.091	5.129	5.121	5.089	5.083	5.071	5.083	5.041	5.069	5.072	5.111
2	25	25.103	25.181	25.171	25.143	25.141	25.122	25.143	25.137	25.183	25.163	25.280
3	50	50.091	50.211	50.141	50.131	50.123	50.149	50.143	50.149	50.141	50.137	50.404

Error (A) in µl	Accuracy (± A) as per ISO 8655 in µl	Precision (σ) in μl	Precision (± CV) as per ISO 8655 in µl	Expanded Uncertainty (±) in µl	Status	
0.111 0.50		0.026	0.20	0.015	Within Accuracy	
0.280	0.50	0.026	0.20	0.015	Within Accuracy	
0.404	0.50	0.030	0.20	0.015	Within Accuracy	

### REFERENCE STANDARDS USED

DESCRIPTION & MAKE	RANGE	ASSUMED DENSITY	Sr.No./ ID.NO.	TRACEABILITY	VALID UPTO
Digital Weighing Balance, RADWAG	Max Capacity : 0 - 5.1 g		513955/ ACPL/MUM/M&V/01	ACPL MUMBAI (ACPL/M <sup>4</sup> //S/0736/01/ 22-23)	02-06-2023

NOTE

The report refer only the particular item calibrated at site / laboratory.

The calibration result reported are valid at the time of and under the condition of

measurement

Certificate should not be reproduced, except in full without the prior permission of

Laboratory

Any correction in this certificate invalidates the certificate

The calibration of under test is meant for scientific and industrial purpose only.

Calibrated By:

draidia

Sapana Valdya Calibration Engineer MUMBAI E

\*\*\*\*\*\* End of Certificate \*\*\*\*\*\*\*\*

Approved By:

Canta

Kailas Chilap Technical Director