



# 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/0336/01/22-23

ULR No.: CC230123000002860F

Date of Calibration:	25-02-2023	Issue Date:	27-02-2023
Next Recommended Calibration Due Date:	24-02-2024	Page:	01 of 02

**CUSTOMER NAME & ADDRESS** : DISHA CRL LABORATORY  
74, Sopariwala Baug Bldg, Opp. K.E.M. Hospital,  
Parel, Mumbai-400012.

**DATE OF RECEIPT** : 23-02-2023

**CALIBRATED AT** : Lab

**INSTRUMENT** : Micropipette

**SR. NO.** : KW03738

**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:	23.1 °C
Z Correction Factor (µl/mg)	1.00350
Y Correction Factor ((1/°C)x°C)	1.00180

**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 corresponds 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,  
 $V_{27^{\circ}\text{C}} (\mu\text{l}) = m(\text{mg}) \times Z(\mu\text{l}/\text{mg}) \times Y((1/^{\circ}\text{C}) \times ^{\circ}\text{C})$ .
- The test liquid used for calibration is distilled water as per ISO3696 requirement.

Calibrated By:

Sapana Vaidya  
Calibration Engineer



Approved By :

Kailas Chilap  
Technical Director



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## CALIBRATION CERTIFICATE

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

Certificate No.: ACPL/MV/L/0336/01/22-23  
ULR No.: CC230123000002660F

Date of Calibration:	25-02-2023	Issue Date:	27-02-2023
Next Recommended Calibration Due Date:	24-02-2024	Page:	02 of 02

<b>Micropipette</b>	
Make : Thermoscientific	Range : 5 - 50 µl
Model : Finnepipette F3	Least Count : 0.1 µl
Sr.No. : KW03738	Accuracy : As per ISO 8655-2
Tag/Id.No. : --	Location : ---

Discipline : Mechanical Calibration      Product Group : Mass & Volume - Volume

Sr. No.	Nominal Volume in µl	Mass of Water in mg										Volume at 27°C (Average) in µl
		1	2	3	4	5	6	7	8	9	10	
1	5	5.037	5.049	5.039	5.045	5.063	5.049	5.093	5.083	5.043	5.069	5.084
2	25	25.121	25.081	25.102	25.103	25.109	25.091	25.083	25.073	25.081	25.093	25.227
3	50	50.081	50.103	50.091	50.039	50.073	50.089	50.097	50.083	50.083	50.093	50.349

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
0.084	0.50	0.019	0.20	0.015	Within Accuracy
0.227	0.50	0.015	0.20	0.015	Within Accuracy
0.349	0.50	0.018	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/MV/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:  Sapana Vaidya Calibration Engineer		Approved By :  Kailas Chilap Technical Director
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\*\*\*\*\* End of Certificate \*\*\*\*\*