



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/0340/01/22-23

ULR No.: CC230123000002644F

Date of Calibration:	24-02-2023	Issue Date:	25-02-2023
Next Recommended Calibration Due Date:	23-02-2024	Page:	01 of 02

CUSTOMER NAME & ADDRESS : DISHA CRL LABORATORY
74, sopariwala Baug Building, J.M. Street, Opp. KEM Hospital,
Parel mumbai - 400012

DATE OF RECEIPT : 23-02-2023

CALIBRATED AT : Lab

INSTRUMENT : Micropipette

SR. NO. : OW00187

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)	1.00353
Y Correction Factor ((1/°C)x°C)	1.00176

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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7 B/R/M&V-01 Rev 01

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Micropipette

Make :	Agappe	Range :	2 - 20 µl
Model :	MIPA-i-Series	Least Count :	0.02 µl
Sr.No. :	OW00187	Accuracy :	As per ISO 8655-2
Tag/Id.No. :	---	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) in µl
		Mass of Water in mg										
1	2	2.089	2.041	2.063	2.049	2.053	2.069	2.079	2.083	2.091	2.083	2.081
2	10	10.103	10.091	10.037	10.089	10.077	10.089	10.093	10.089	10.093	10.105	10.140
3	20	20.107	20.091	20.069	20.073	20.103	20.093	20.083	20.073	20.049	20.063	20.187

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
0.081	0.20	0.018	0.10	0.015	Within Accuracy
0.140	0.20	0.019	0.10	0.015	Within Accuracy
0.187	0.20	0.018	0.10	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

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