

**CALIBRATION CERTIFICATE**

CUSTOMER : M/s. CHRISTY FRIEDGRAM INDUSTRY PRIVATE LIMITED, ADDRESS : A-2,A-3,SIDCO INDUSTRIAL ESTATE, ANDIPALAYAM(PO), TIRUCHENGODE, NAMAKKAL 637214 LOCATION: CHEMICAL LAB	
UNIQUE LAB REPORT NUMBER : ULR- CC231726000000809F	DISCIPLINE : MECHANICAL CALIBRATION PARAMETER : VOLUME
NAME OF EQUIPMENT : MICROPIPETTE	RELEVANT : ISO 17025:2017 SECTION : Section 7.8.2 & 7.8.4
CERTIFICATE NUMBER : PCLCC260305707	DATE OF ISSUE : 05-03-2026
C.C.F NUMBER : PCL/25-26/00937	TEMPERATURE : 20.1 °C
DATE OF RECEIPT : 02-03-2026	HUMIDITY : 72 %
JOB CARD NUMBER : PCL302032605707	AIR PRESSURE : 966 hpa
JOB CARD DATE : 02-03-2026	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : BOROSIL	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 250 µl - Fixed Volume	DENSITY CORRECTION FACTOR [Z] : 1.0028 µl/mg
SERIAL NUMBER : MP-CH-05	WEIGHING BALANCE : SEMI MICRO BALANCE
TIPS USED : 1000 µl	CALIBRATION PROCEDURE NUMBER : MSP 7.2.1.1-1
CALIBRATION LOCATION : AT LAB	CONDITION OF DUC RECEIVED : GOOD
METHOD OF CALIBRATION : Based on ISO 8655:2022 PART - 6 standards our calibration procedure : MSP 7.2.1.1-1 is applied for micropipette calibration.	
SCOPE OF ACCREDITATION : VOLUME - MICROPIPETTE (0.2 µl - 10000 µl)	

DETAILS OF MASTER EQUIPMENTS USED FOR CALIBRATION

MASTER EQUIPMENT	SL.NO	CALIBRATED BY	CERTIFICATE NUMBER	EQUIPMENT CALIBRATION VALIDITY	TRACEABILITY
SHIMADZU -1	D316301053	PIPETTEMANN CALIBRATION LABORATORY LLP (MASS), COIMBATORE	PCLCCM2602069	20-02-2027	NATIONAL STANDARD



CERTIFICATE NO: PCLCC260305707

CALIBRATED PARAMETER : VOLUME

NO.OF MEASUREMENTS : 10

Note: All Volumes are converted and reported @27°C

I) NOMINAL VOLUME : 250 µl

250.41 µl	250.31 µl	250.26 µl	250.2 µl	250.31 µl	250.29 µl	250.21 µl	250.31 µl	250.42 µl	250.35 µl
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MEAN VALUE : 250.31 µl

Standard Limit Value

SYSTEMATIC ERROR(es) : 0.31 µl

(±2.0 µl)

RANDOM ERROR (Sr) : 0.07 µl

(±0.75 µl)

CALIBRATED ON : 05-03-2026

CALIBRATION DUE ON : 04-03-2027

RESULTS :

RANGE

MEASUREMENT UNCERTAINTY

250 µl

0.30 µl

With coverage factor k is 2 for effective degrees of freedom is ∞ and the confidence level is 95%

CALIBRATED BY :

AUTHORIZED
SIGNATORY :

(M.VINOTH KUMAR)

DEPUTY TECHNICAL MANAGER

(K.BALA MAYUR PRIYAN)

TECHNICAL MANAGER

- NOTE :
- 1.The recalibration interval should be determined on the user requirement
 - 2.Master equipments used for calibration are traceable to National standards
 - 3.The calibration results reported are valid at the time of and under the stated condition of the measurement
 - 4.Results presented in this certificate relate only to the item mentioned & calibrated at **PIPETTEMANN CALIBRATION LABORATORY LLP**
 - 5.This certificate shall not be reproduced except in full without written approval of **PIPETTEMANN CALIBRATION LABORATORY LLP**
 - 6.All precautions have been taken to avoid any error or omission while calibrating the DUC and issuing this certificate
 - 7.The volume measurements are recorded as observed.Hence the results are reported without any adjustment.

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END OF THE REPORT