



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- CC231726000000807F

DISCIPLINE : MECHANICAL CALIBRATION

PARAMETER : VOLUME

NAME OF EQUIPMENT : MICROPIPETTE

RELEVANT : ISO 17025:2017
SECTION : Section 7.8.2 & 7.8.4

CERTIFICATE NUMBER : PCLCC260305705

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 : PCL302032605705

AIR PRESSURE : 966 hpa

JOB CARD DATE : 02-03-2026

MEDIUM OF WEIGHING : GRADE III WATER

BRAND : BOROSIL

DENSITY OF MEDIUM : APPROXIMATELY 1

RANGE : 100 µl - Fixed Volume

DENSITY CORRECTION
FACTOR [Z] : 1.0028 µl/mg

SERIAL NUMBER : MP-CH-07

WEIGHING BALANCE : SEMI MICRO BALANCE

TIPS USED : 200 µl

CALIBRATION
PROCEDURE NUMBER : MSP 7.2.1.1-1

CALIBRATION
LOCATION : AT LAB

CONDITION OF DUC : GOOD
RECEIVED

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

PIPETTEMANN CALIBRATION LABORATORY LLP

NABL ACCREDITED CALIBRATION LABORATORY

MASS - VOLUME - THERMAL - SPEED - TIME - ELECTRO TECHNICAL



CERTIFICATE NO: PCLCC260305705

CALIBRATED PARAMETER : VOLUME
NO.OF MEASUREMENTS : 10

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

I) NOMINAL VOLUME : 100 µl

99.97 µl	100 µl	99.97 µl	99.69 µl	99.78 µl	99.89 µl	99.7 µl	99.78 µl	99.89 µl	100 µl
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MEAN VALUE : 99.87 µl

Standard Limit Value

SYSTEMATIC ERROR(es) : -0.13 µl

(±0.8 µl)

RANDOM ERROR (Sr) : 0.12 µl

(±0.3 µl)

CALIBRATED ON : 05-03-2026

CALIBRATION DUE ON : 04-03-2027

RESULTS :

RANGE	MEASUREMENT UNCERTAINTY
100 µl	0.11 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)

(K.BALA MAYUR PRIYAN)

DEPUTY TECHNICAL MANAGER

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