

CALIBRATION CERTIFICATE

CUSTOMER : M/s. CHRISTY FRIEDGRAM INDUSTRY PRIVATE LIMITED, ADDRESS A-2,A-3,SIDCO INDUSTRIAL ESTATE, ANDIPALAYAM(PO), TIRUCHENGODE, NAMAKKAL 637214 LOCATION: CHEMISTRY LAB	
UNIQUE LAB REPORT NUMBER : ULR-CC231726000000812F	DISCIPLINE : MECHANICAL CALIBRATION PARAMETER : VOLUME
NAME OF EQUIPMENT : MICROPIPETTE	RELEVANT : ISO 17025:2017 SECTION : Section 7.8.2 & 7.8.4
CERTIFICATE NUMBER : PCLCC260305710	DATE OF ISSUE : 05-03-2026
C.C.F NUMBER : PCL/25-26/00937	TEMPERATURE : 19.9 °C
DATE OF RECEIPT : 02-03-2026	HUMIDITY : 63 %
JOB CARD NUMBER : PCL302032605710	AIR PRESSURE : 962 hpa
JOB CARD DATE : 02-03-2026	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : LAB QUEST	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 100 - 1000 µl	DENSITY CORRECTION FACTOR [Z] : 1.0028 µl/mg
SERIAL NUMBER : SD691650 (MP-CH-04)	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 : 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 - 3	D450020184	PIPETTEMANN CALIBRATION LABORATORY LLP (MASS), COIMBATORE	PCLCCM2602066-A	01-02-2027	NATIONAL STANDARDS

PIPETEMANN CALIBRATION LABORATORY LLP

NABL ACCREDITED CALIBRATION LABORATORY

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



CERTIFICATE NO : PCLCC260305710

CALIBRATED PARAMETER : VOLUME NO.OF MEASUREMENTS : 10	Note: All Volumes are converted and reported @27 °C								
I) SELECTED VOLUME : 1000 µl									
997.6 µl 997.51 µl 997.63 µl 997.51 µl 997.32 µl 997.63 µl 997.51 µl 997.32 µl 997.63 µl 997.49 µl MEAN VALUE : 997.52 µl SYSTEMATIC ERROR(es) : -2.48 µl RANDOM ERROR (Sr) : 0.12 µl Standard Limit Value (±8.00 µl) (±3.00 µl)									
II) SELECTED VOLUME : 500 µl									
498.67 µl 498.88 µl 498.9 µl 498.94 µl 499.03 µl 499.19 µl 498.81 µl 499.24 µl 498.77 µl 498.83 µl MEAN VALUE : 498.93 µl SYSTEMATIC ERROR(es) : -1.07 µl RANDOM ERROR (Sr) : 0.18 µl Standard Limit Value (±8.00 µl) (±3.00 µl)									
III) SELECTED VOLUME : 100 µl									
99.92 µl 99.86 µl 99.92 µl 100 µl 99.96 µl 99.99 µl 99.98 µl 99.96 µl 100.02 µl 99.88 µl MEAN VALUE : 99.95 µl SYSTEMATIC ERROR(es) : -0.05 µl RANDOM ERROR (Sr) : 0.05 µl Standard Limit Value (±8.00 µl) (±3.00 µl)									
CALIBRATED ON : 05-03-2026 CALIBRATION DUE ON : 04-03-2027									
RESULTS :	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">RANGE</th> <th>MEASUREMENT UNCERTAINTY</th> </tr> </thead> <tbody> <tr> <td>1000 µl</td> <td>0.30 µl</td> </tr> <tr> <td>500 µl</td> <td>0.30 µl</td> </tr> <tr> <td>100 µl</td> <td>0.11 µl</td> </tr> </tbody> </table>	RANGE	MEASUREMENT UNCERTAINTY	1000 µl	0.30 µl	500 µl	0.30 µl	100 µl	0.11 µl
RANGE	MEASUREMENT UNCERTAINTY								
1000 µl	0.30 µl								
500 µl	0.30 µl								
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 : (M.VINOTH KUMAR) DEPUTY TECHNICAL MANAGER	AUTHORIZED SIGNATORY : (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 reported are valid at the time of and under the stated conditions of the measurement 4.Results presented in this certificate relate only to the item mentioned & calibrated at PIPETEMANN CALIBRATION LABORATORY LLP 5.This certificate shall not be reproduced except in full without written approval of PIPETEMANN 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