

THE PIPETEMANN

NABL ACCREDITED CALIBRATION LABORATORY
ADDING ACCURACY TO YOUR EQUIPMENT

MASS - VOLUME - THERMAL - SPEED - PRESSURE - TIMER - ELECTRO TECHNICAL



CERT. NO. CC - 2317

CALIBRATION CERTIFICATE

CUSTOMER ADDRESS : M/s. THE MEDICAL OFFICER, GOVT URBAN PRIMARY HEALTH CENTRE, THOLLAVILAI, KANYAKUMARI 629002. Phone No.: 9843949109.	
UNIQUE LAB REPORT NUMBER : ULR-CC231719000005699F	DISCIPLINE : MECHANICAL CALIBRATION
NAME OF EQUIPMENT : MICROPIPETTE	PARAMETER : VOLUME
CERTIFICATE NO : TPMCC191240288	DATE OF ISSUE : 10-12-2019
RECEIPT NO : 8794	TEMPERATURE : 24.4 °C
RECEIPT DATE : 09-12-2019	HUMIDITY : 53 %
JOB CARD NO : TPM364121938711	AIR PRESSURE : 963 hpa
JOB CARD DATE : 09-12-2019	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : MICROLUX	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 5 - 50 µl	DENSITY CORRECTION FACTOR [Z] : 1.0037 µl/mg
SERIAL NO : NIL	CALIBRATION METHOD : ISO 8655:2002 PART - 6
TIPS USED : 200 µl	WEIGHING BALANCE : SEMI MICRO BALANCE
SCOPE OF ACCREDITATION : VOLUME - MICROPIPETTE (1 µl - 10000 µl)	

DETAILS OF MASTER EQUIPMENTS USED FOR CALIBRATION

MASTER EQUIPMENT	: SHIMADZU
SL.NO	: D450020184
RESOLUTION	: 0.00001g upto 82g & above is 0.0001g
CALIBRATED BY	: THE PIPETEMANN (MASS), COIMBATORE
CERTIFICATE NUMBER	: TPMCCM19020168
CALIBRATION VALIDITY	: 10-02-2020
TRACEABILITY	: NATIONAL STANDARDS

THE PIPETEMANN

NABL ACCREDITED CALIBRATION LABORATORY
ADDING ACCURACY TO YOUR EQUIPMENT

MASS - VOLUME - THERMAL - SPEED - PRESSURE - TIMER - ELECTRO TECHNICAL



CERT. NO. CC - 2317

CERTIFICATE NO: TPMCC191240288

CALIBRATED PARAMETER : VOLUME

NO.OF MEASUREMENTS : 10

I) NOMINAL VOLUME : 50 μ l

49.79 μ l	49.82 μ l	49.85 μ l	49.87 μ l	49.89 μ l	49.88 μ l	49.86 μ l	49.86 μ l	49.89 μ l	49.9 μ l
---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	---------------	--------------

MEAN VALUE : 49.86 μ l

SYSTEMATIC ERROR(es) : -0.14 μ l

RANDOM ERROR (Sr) : 0.03 μ l

Standard Limit Value

(\pm 0.5 μ l)

(\pm 0.2 μ l)

CALIBRATED ON : 10-12-2019

CALIBRATION DUE ON : 09-06-2020

RESULTS :

RANGE	MEASUREMENT UNCERTAINTY	CMC (approved by NABL)
50 μ l	0.04 μ l	0.01 μ l

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

CALIBRATED BY :

APPROVED BY :

(S.LOGANATHAN)

CALIBRATION ENGINEER

(K. BALA MAYUR PRIYAN)

TECHNICAL MANAGER

- NOTE :
- 1.Master equipments used for calibration are traceable to National standards
 - 2.The calibration results reported are valid at the time of and under the stated condition of the measurement
 - 3.Results presented in this certificate relate only to the item mentioned & calibrated at **THE PIPETEMANN**
 - 4.This certificate shall not be reproduced except in full without written approval of **THE PIPETEMANN**