

CALIBRATION CERTIFICATE

CUSTOMER ADDRESS : M/s. K.G CLINICAL LABORATORY, 526/4, PUTHANPURACKAL BUILDING, 7TH MILE, ANAKKARA, IDUKKI 685512 Phone No.: 9562701052	
UNIQUE LAB REPORT NUMBER : ULR-CC231722000004869F	DISCIPLINE : MECHANICAL CALIBRATION
NAME OF EQUIPMENT : MICROPIPETTE	PARAMETER : VOLUME
CERTIFICATE NO : TPMCC221154938	DATE OF ISSUE : 08-11-2022
RECEIPT NO : 11324	TEMPERATURE : 23.6 °C
RECEIPT DATE : 07-11-2022	HUMIDITY : 52 %
JOB CARD NO : TPM729112253361	AIR PRESSURE : 962 hpa
JOB CARD DATE : 07-11-2022	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : LABOPETTE	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 500 µl - Fixed Volume	DENSITY CORRECTION FACTOR [Z] : 1.0035 µl/mg
SERIAL NO : 121700597	CALIBRATION METHOD : ISO 8655:2002 PART - 6
TIPS USED : 1000 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	: TPMCCM22020355
CALIBRATION VALIDITY	: 03-02-2023
TRACEABILITY	: NATIONAL STANDARDS

THE PIPETEMANN

NABL ACCREDITED CALIBRATION LABORATORY

ADDING ACCURACY TO YOUR EQUIPMENT

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



CC - 2317

CERTIFICATE NO: TPMCC221154938

CALIBRATED PARAMETER : VOLUME

NO.OF MEASUREMENTS : 10

I) NOMINAL VOLUME : 500 μ l

500.45 μ l	500.4 μ l	500.45 μ l	500.56 μ l	500.4 μ l	500.47 μ l	500.4 μ l	500.47 μ l	500.34 μ l	500.4 μ l
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MEAN VALUE : 500.43 μ l

Standard Limit Value

SYSTEMATIC ERROR(es) : 0.43 μ l

(\pm 4.0 μ l)

RANDOM ERROR (Sr) : 0.06 μ l

(\pm 1.5 μ l)

CALIBRATED ON : 08-11-2022

CALIBRATION DUE ON : 07-11-2023

RESULTS :

RANGE	MEASUREMENT UNCERTAINTY	CMC (approved by NABL)
500 μ l	0.50 μ l	0.50 μ l

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

CALIBRATED BY :

APPROVED BY :

(M.VINOTH KUMAR)

(K.BALA MAYUR PRIYAN)

DEPUTY TECHNICAL MANAGER

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
4.This certificate shall not be reproduced except in full without written approval of

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