

### 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-CC231722000004868F	DISCIPLINE : MECHANICAL CALIBRATION
NAME OF EQUIPMENT : MICROPIPETTE	PARAMETER : VOLUME
CERTIFICATE NO : TPMCC221154937	DATE OF ISSUE : 08-11-2022
RECEIPT NO : 11324	TEMPERATURE : 23.6 °C
RECEIPT DATE : 07-11-2022	HUMIDITY : 52 %
JOB CARD NO : TPM729112253360	AIR PRESSURE : 962 hpa
JOB CARD DATE : 07-11-2022	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : HITEK	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 100 µl - Fixed Volume	DENSITY CORRECTION FACTOR [Z] : 1.0035 µl/mg
SERIAL NO : 021200334	CALIBRATION METHOD : ISO 8655:2002 PART - 6
TIPS USED : 200 µl	WEIGHING BALANCE : MICRO BALANCE
SCOPE OF ACCREDITATION : VOLUME - MICROPIPETTE ( 1 µl - 10000 µl )	

### DETAILS OF MASTER EQUIPMENTS USED FOR CALIBRATION

MASTER EQUIPMENT	: SARTORIUS MICRO BALANCE
SL.NO	: 28001417
RESOLUTION	: 0.000001g upto 6.1g
CALIBRATED BY	: THE PIPETEMANN(MASS),COIMBATORE
CERTIFICATE NUMBER	: TPMCCM22030365
CALIBRATION VALIDITY	: 28-02-2023
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: TPMCC221154937

**CALIBRATED PARAMETER** : VOLUME

**NO.OF MEASUREMENTS** : 10

I) NOMINAL VOLUME : 100  $\mu$ l

100.04 $\mu$ l	100.07 $\mu$ l	100.04 $\mu$ l	99.76 $\mu$ l	100 $\mu$ l	100.04 $\mu$ l	100.16 $\mu$ l	100.05 $\mu$ l	99.85 $\mu$ l	99.96 $\mu$ l
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MEAN VALUE : 100.00  $\mu$ l

Standard Limit Value

SYSTEMATIC ERROR(es) : 0  $\mu$ l

( $\pm$ 0.8  $\mu$ l)

RANDOM ERROR (Sr) : 0.12  $\mu$ l

( $\pm$ 0.3  $\mu$ l)

CALIBRATED ON : 08-11-2022

CALIBRATION DUE ON : 07-11-2023

**RESULTS :**

RANGE	MEASUREMENT UNCERTAINTY	CMC (approved by NABL)
100 $\mu$ l	0.08 $\mu$ l	0.04 $\mu$ l

With coverage factor k is 2 for effective degrees of freedom is  $\infty$  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

**THE PIPETEMANN**  
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