

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-CC23172200004870F	DISCIPLINE : MECHANICAL CALIBRATION
NAME OF EQUIPMENT : MICROPIPETTE	PARAMETER : VOLUME
CERTIFICATE NO : TPMCC221154939	DATE OF ISSUE : 08-11-2022
RECEIPT NO : 11324	TEMPERATURE : 23.6 °C
RECEIPT DATE : 07-11-2022	HUMIDITY : 52 %
JOB CARD NO : TPM729112253362	AIR PRESSURE : 962 hpa
JOB CARD DATE : 07-11-2022	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : HITEK	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 1000 µl - Fixed Volume	DENSITY CORRECTION FACTOR [Z] : 1.0035 µl/mg
SERIAL NO : 071301337	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

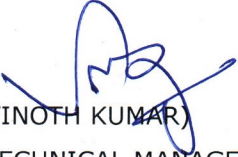
NABL ACCREDITED CALIBRATION LABORATORY

ADDING ACCURACY TO YOUR EQUIPMENT

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



CERTIFICATE NO: TPMCC221154939

CALIBRATED PARAMETER : VOLUME									
NO.OF MEASUREMENTS : 10									
I) NOMINAL VOLUME : 1000 μ l									
1002.2 μ l	1002.15 μ l	1002.2 μ l	1002.19 μ l	1002.2 μ l	1002.19 μ l	1002.21 μ l	1002.15 μ l	1002.19 μ l	1002.2 μ l
MEAN VALUE	: 1002.19 μ l	Standard Limit Value							
SYSTEMATIC ERROR(es)	: 2.19 μ l	(\pm 8.0 μ l)							
RANDOM ERROR (Sr)	: 0.02 μ l	(\pm 3.0 μ l)							
CALIBRATED ON : 08-11-2022			CALIBRATION DUE ON : 07-11-2023						
RESULTS :									
RANGE	MEASUREMENT UNCERTAINTY	CMC (approved by NABL)							
1000 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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