

THE PIPETEMANN

NABL ACCREDITED CALIBRATION LABORATORY

ADDING ACCURACY TO YOUR EQUIPMENT

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



CALIBRATION CERTIFICATE

CUSTOMER ADDRESS : M/s. SRI VIDHYA DIAGNOSTIC CENTRE, NO.77,JONES ROAD, SAIDAPET, CHENNAI – 600015.	
UNIQUE LAB REPORT NUMBER : ULR-CC231721000004090F	DISCIPLINE : MECHANICAL CALIBRATION
NAME OF EQUIPMENT : MICROPIPETTE	PARAMETER : VOLUME
CERTIFICATE NO : TPMCC211049098	DATE OF ISSUE : 23-10-2021
RECEIPT NO : 10324	TEMPERATURE : 26.1 °C
RECEIPT DATE : 23-10-2021	HUMIDITY : 62 %
JOB CARD NO : TPM929102147521	AIR PRESSURE : 961 hpa
JOB CARD DATE : 23-10-2021	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : DRAGON LAB	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 5 - 50 µl	DENSITY CORRECTION FACTOR [Z] : 1.0034 µl/mg
SERIAL NO : YE184AH0013673	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	: TPMCCM21030288
CALIBRATION VALIDITY	: 01-03-2022
TRACEABILITY	: NATIONAL STANDARDS

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CC - 2317

CERTIFICATE NO : TPMCC211049098

CALIBRATED PARAMETER : VOLUME									
NO.OF MEASUREMENTS : 10									
I) SELECTED VOLUME : 50 μ l									
49.78 μ l	49.83 μ l	49.86 μ l	49.81 μ l	49.85 μ l	49.88 μ l	49.91 μ l	49.84 μ l	49.85 μ l	49.89 μ l
MEAN VALUE	: 49.85 μ l	Standard Limit Value							
SYSTEMATIC ERROR(es)	: 0.15 μ l	(±0.5 μ l)							
RANDOM ERROR (Sr)	: 0.04 μ l	(±0.2 μ l)							
II) SELECTED VOLUME : 25 μ l									
25.00 μ l	24.97 μ l	24.95 μ l	24.98 μ l	25.00 μ l	25.03 μ l	24.98 μ l	25.01 μ l	25.06 μ l	24.98 μ l
MEAN VALUE	: 25.00 μ l	Standard Limit Value							
SYSTEMATIC ERROR(es)	: 0 μ l	(±0.5 μ l)							
RANDOM ERROR (Sr)	: 0.03 μ l	(±0.2 μ l)							
III) SELECTED VOLUME : 5 μ l									
5.01 μ l	5.03 μ l	5.04 μ l	5.01 μ l	5.00 μ l	4.99 μ l	4.98 μ l	5.01 μ l	5.03 μ l	5.02 μ l
MEAN VALUE	: 5.01 μ l	Standard Limit Value							
SYSTEMATIC ERROR(es)	: 0.01 μ l	(±0.125 μ l)							
RANDOM ERROR (Sr)	: 0.02 μ l	(±0.075 μ l)							
CALIBRATED ON : 23-10-2021		CALIBRATION DUE ON : 22-10-2022							
RESULTS :									
RANGE		MEASUREMENT UNCERTAINTY				CMC (approved by NABL)			
50 μ l		0.01 μ l				0.01 μ l			
25 μ l		0.01 μ l				0.01 μ l			
5 μ l		0.01 μ l				0.01 μ l			
With coverage factor k is 2 for effective degree of freedom is ∞ and the confidence level is 95%									
CALIBRATED BY :					APPROVED BY :				
(M.VINOTH KUMAR) CALIBRATION ENGINEER					(M.PALANISELVAN) TECHNICAL DIRECTOR				
NOTE : 1.Master equipments used for calibration are traceable to National standards 2.The calibration reported are valid at the time of and under the stated conditions 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									