



# NUTECH CALIBRATORS & ENGINEERS

(NABL Accredited Calibration Laboratory)

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CC-3304

Format No.:F/NCE/LAB/20		<b>CALIBRATION CERTIFICATE OF : MICROPIPETTE</b>			
Calibration Certificate No.: NCE-MP-230000588-22-23		Issue Date: 13-Feb-2023			
Date of Calibration: 9-Feb-2023		Calibration Due On : 9-Feb-2024			
ULR No.: CC330423000000588F		Frequency of Calibration: 12 Months			
Location of Calibration:		Instrument Receipt Date : 9-Feb-2023			
Issued To: Office of the Professor Cum Head, Department of Microbiology, Assam Medical College & Hospital, Dibrugarh, Assam					
Service Request/Order No.:					
Description identification of instrument to be calibrated:					
Name: Micropipette					
Make: Handypette		Id No.: --		Range: 100 µl - 1000 µl	
Model: --		Sr. No.: 221051133		Resolution: 10 µl	
Location: --		Discipline: Volume			
Applicable specification of Item to be calibrated: Accuracy/Permissible Limit:				Not Specified.	
Basis Of Calibration:					
S.O.P No.: SOP/VL/VG-01		Description of Method:			
Standard Followed:		Comparison Method			
Recommended Environmental Condition:					
Temperature: 22°C ± 2°C		Environmental Condition during Calibration:		Humidity	
Humidity: 50%RH ± 10%RH		Temperature: 21.1 °C		54.6 % RH	
Traceability: Standards used for calibration are traceable to National / International Standards through ISO/IEC: 17025 accredited laboratory.					
Sr. No.	Name of the Standard Instruments Used ( Sl. No./Code No.)	Certificate No.	Calibration Date	Calibration Due Date	Traceable to
1	Electronic Balance, (NCE/DWM/01)	TSC/22-23/1761-8	22/04/2022	22/04/2023	Transcal (Bangalore)
<b>CALIBRATION RESULT</b>					
Nominal Capacity	Nominal value on DUC in µl	Value determined by Electronic Balance in g	Actual value determined after temp. & pressure correction in µl.	Error in µl	Measurement Uncertainty (±) (µl)
1000 µl	100	0.09877	98.549	1.451	1.5
	500	0.49845	497.333	2.667	
	1000	0.99875	996.513	3.487	
Note: i) Average of 5 readings had been taken in DUC/STD.					
Remarks: Statement of conformity not mentioned.					
Notes: i) This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.					
ii) Measurement Uncertainty reported is at approximately 95% confidence level with k=2, Units of Measurement results & Measurement Uncertainty are same as that of range selected-Unless otherwise indicated.					
iii) In result sheets, 'PASS' indicates measured readings are within specification limit, 'FAIL' indicates measured readings are out of specification limit & '-' indicates no specification limit furnished					
iv) NABL-133 guidelines are adopted for use of NABL symbol. v) DUC: Device Under Calibration. vi) Physical Status Of DUC: Ok					
vii) The certificate issued for industrial purpose only not for commercial activities. viii) The Test perform on Linearity, Repeatability & Eccentricity process.					
ix) Partial publication/reproduction of this certificate in any form is not permitted without the written consent of NCE.					
x) Corrections/erasing, invalidate the Calibration Certificate- exception to the 'Final Page or part of this Report' - provided for incorporation of additional data ( To be filled by customer, authorized Signatory and not under calibration laboratory control)					
This certificate, issued by Nutech Calibrators & Engineers, refers only for the particular item submitted to calibrate.					
CALIBRATED BY: B. Borz			APPROVED BY:		
END OF CERTIFICATE					

