

CALIBRATION CERTIFICATE

EQN/EE/801		Page 1 of 2	
CEI No	EQN/CEI/2307146	Date of Calibration	19 Jul 23
Certificate No	2023-24/EQN/2307146-04	Expiry Due Date	18 Jul 24
U.E. No	CC 276/23000726512		
Customer Details		Calibrated at	Lab
THE MEDICAL OFFICER		Date of Receipt	19 Jul 23
Govt Primary Health Centre,		Cond. On Receipt	Satisfactory
Pappankulam, Tiruppur District		Date of Issue	22 Jul 23
Details of UUC :			
Description	Micropipette	Model	Empipette E3
Range	10 - 100 µl	Serial No	RW12814
Least Count	0.2µl	Identification No	-
Make	Thermo Scientific	Accuracy	As Per Manual
Working range	-	Location	Lab
Details of Standard Used			
Name	Certificate No	Valid upto	Traceability
Mass Comparator	2022-23/EQN/220903041	14 Sep 23	EQN, Chennai
CP No	EQN/CP/MS/03	Reference Standard	ISO 9055-8
Environmental Details	Temperature: 25±2°C	Relative Humidity	50±2 % RH
MECHANICAL CALIBRATION			
(Volume)			
Calibration Results			
L Lower Volume :	10 µl	No. of Measurements: 10	
<input type="text" value="10.081"/>	<input type="text" value="9.981"/>	<input type="text" value="10.071"/>	<input type="text" value="9.971"/>
<input type="text" value="10.001"/>	<input type="text" value="10.061"/>	<input type="text" value="10.021"/>	<input type="text" value="9.991"/>
<input type="text" value="9.951"/>	<input type="text" value="10.091"/>		
Mean Value	10.022 µl		
Error Limit(s)			
Systematic Error	0.02 µl	0.12 µl	
Systematic Error	0.22 %	1.20 %	
Random Error	0.05 µl	0.08 µl	
Random Error	0.51 %	0.80 %	
Measurement Uncertainty :	± 0.37 µl		

Calibrated by
L. SALAMON
L. SALAMON
(Calibration Engineer)



Authorised by
K. VIGNANATHAN
K. VIGNANATHAN
(TM)