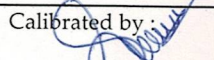
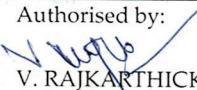


CALIBRATION CERTIFICATE

EQN/FT/7.8/01		Page 1 of 2	
CRF No.	: EQN/CRF/2311065	Date of Calibration	: 06-Nov-23
Certificate No	: 2023-24/EQN/2311065-01	Recom. Due Date	: 05-Nov-24
ULR No.	: CC276023000018036F		
Customer Details		Calibrated at	
M/s. UPC X - RAY, ECG & Diagnostic Center		: Lab	
Meetuplayam Road, Opp NGGO Colony,		Date of Receipt : 06-Nov-23	
Vadamadurai (Post),		Cond. On Receipt : Satisfactory	
Coimbatore - 641 017		Date of Issue : 09-Nov-23	
Details of UUC :			
Description	: Micropipette	Model No.	: --
Range	: 10 - 100 μ l	Serial No	: --
Least Count	: 1 μ l	Identification No.	: --
Make	: Diagonpette	Accuracy	: As per Manual
Working range	: --	Location	: Lab
Details of Standard Used			
Name	Certificate No.	Valid upto	Traceability
Electronic Micro Balance	2023-24/EQN/2306104-64	21-Jun-24	EQN, Chennai.
CP No.	: EQN/CP/MS-03	Reference Standard : ISO 8655-6	
Environmental Details	: Temperature : 25 \pm 2 $^{\circ}$ C	Relative Humidity : 50 \pm 10 % RH	
MECHANICAL CALIBRATION			
(Volume)			
Calibration Results			
1. Lower Volume :	10 μ l	No. of Measurements :	10
<input type="text" value="9.831"/>	<input type="text" value="9.871"/>	<input type="text" value="9.901"/>	<input type="text" value="9.962"/>
<input type="text" value="9.871"/>	<input type="text" value="9.901"/>	<input type="text" value="9.851"/>	<input type="text" value="9.952"/>
<input type="text" value="9.931"/>	<input type="text" value="9.891"/>		
Mean Value :	9.896 μ l		
Error Limits(\pm)			
Systematic Error :	-0.10 μ l	0.12 μ l	
Systematic Error :	-1.04 %	1.20 %	
Random Error :	0.04 μ l	0.08 μ l	
Random Error :	0.42 %	0.80 %	
Measurement Uncertainty :	\pm 0.37 μ l		

Calibrated by : 
SANGEERTH K P
 (Calibration Engineer)



Authorised by: 
V. RAJKARTHICK
 (QM)


CALIBRATION CERTIFICATE

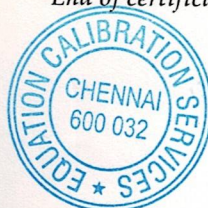
CRF No.	: EQN/CRF/2311065	Page 2 of 2
ULR No.	: CC276023000018036F	
MECHANICAL CALIBRATION		
(Volume)		
Calibration Results		
2. Middle Volume :	50 μ l	No. of Measurements : 10
50.157	50.096	50.096
50.237	50.247	50.126
50.137	50.167	50.187
Mean Value :	50.165 μ l	
Error Limits(\pm)		
Systematic Error :	0.16 μ l	0.50 μ l
Systematic Error :	0.33 %	1.00 %
Random Error :	0.05 μ l	0.20 μ l
Random Error :	0.11 %	0.40 %
Measurement Uncertainty :	\pm 0.37 μ l	
3. Nominal Volume :	100 μ l	No. of Measurements : 10
100.404	100.353	100.434
100.384	100.474	100.353
100.404	100.373	100.434
Mean Value :	100.396 μ l	
Error Limits(\pm)		
Systematic Error :	0.40 μ l	0.80 μ l
Systematic Error :	0.40 %	0.80 %
Random Error :	0.04 μ l	0.30 μ l
Random Error :	0.04 %	0.30 %
Measurement Uncertainty :	\pm 0.37 μ l	

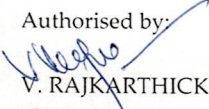
Remarks

1. The reported Expanded Uncertainty is calculated at 95.45 % C.L with coverage factor $k=2$
- 2 The Above Results are within the maximum permissible Error

End of certificate

Calibrated by 
 SANGEETHA K R
 (Calibration Engineer)



Authorised by: 
 V. RAJKARTHICK
 (QM)