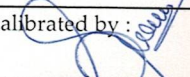
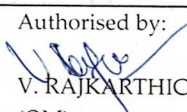


CALIBRATION CERTIFICATE

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/2311065-02	Recom. Due Date	: 05-Nov-24
ULR No.	: CC276023000018037F		
Customer Details		Calibrated at	: Lab
M/s. UPC X - RAY, ECG & Diagnostic Center		Date of Receipt	: 06-Nov-23
Meetuplayam Road, Opp NGGO Colony,		Cond. On Receipt	: Satisfactory
Vadamadurai (Post),		Date of Issue	: 09-Nov-23
Coimbatore - 641 017			
Details of UUC :			
Description	: Micropipette	Model No.	: --
Range	: 100 - 1000 μ l	Serial No	: 295214
Least Count	: 5 μ l	Identification No.	: --
Make	: Super fit XL +	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 :	100 μ l	No. of Measurements :	10
<input type="text" value="99.978"/>	<input type="text" value="100.068"/>	<input type="text" value="100.008"/>	<input type="text" value="100.078"/>
<input type="text" value="99.998"/>	<input type="text" value="100.068"/>	<input type="text" value="100.158"/>	<input type="text" value="100.118"/>
<input type="text" value="100.158"/>	<input type="text" value="100.068"/>		
Mean Value :	<input type="text" value="100.070"/> μ l		
Error Limits(\pm)			
Systematic Error :	0.07 μ l	0.80 μ l	
Systematic Error :	0.07 %	0.80 %	
Random Error :	0.06 μ l	0.30 μ l	
Random Error :	0.06 %	0.30 %	
Measurement Uncertainty :	\pm	0.36 μ l	

Calibrated by : 
 SANGEETHA K P
 (Calibration Engineer)



Authorised by: 
 V. RAJKARTHICK
 (QM)

CALIBRATION CERTIFICATE

CRF No. : EQN/CRF/2311065 Page 2 of 2
 ULR No. : CC276023000018037F

MECHANICAL CALIBRATION

(Volume)

Calibration Results

2. Middle Volume : 500 μl No. of Measurements : 10

497.202	497.413	496.840	496.670
496.850	497.142	497.494	496.971
497.192	496.850		

Mean Value : 497.063 μl

Error Limits(\pm)

Systematic Error :	-2.94	μl	4.00	μl
Systematic Error :	-0.59	%	0.80	%

Random Error :	0.27	μl	1.50	μl
Random Error :	0.05	%	0.30	%

Measurement Uncertainty : \pm 0.37 μl

3. Nominal Volume : 1000 μl No. of Measurements : 10

998.356	998.889	998.487	997.723
998.406	998.648	998.055	998.788
998.266	998.457		

Mean Value : 998.407 μl

Error Limits(\pm)

Systematic Error :	-1.59	μl	8.00	μl
Systematic Error :	-0.16	%	0.80	%

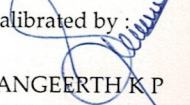
Random Error :	0.34	μl	3.00	μl
Random Error :	0.03	%	0.30	%

Measurement Uncertainty : \pm 0.37 μl

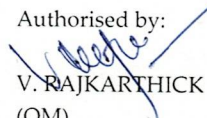
Remarks

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 : 
 SANGEERTH K P
 (Calibration Engineer)



Authorised by: 
 V. RAJKARTHICK
 (QM)