
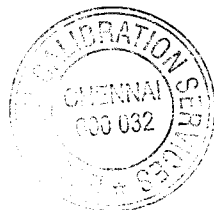
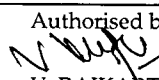


CALIBRATION CERTIFICATE

EQN/FT/7.8/01		Page 1 of 2	
CRF No.	: EQN/CRF/2303174	Date of Calibration	: 25-Mar-23
Certificate No	: 2022-23/EQN/2303174-03	Recom. Due Date	: 24-Mar-24
ULR No.	: CC276023000004535F		
Customer Details		Calibrated at	: Lab
M/s. REGIONAL AYURVEDA RESEARCH INSTITUTE		Date of Receipt	: 25-Mar-23
Opp. Saraswathi Mandapam, Shastri Nagar,		Cond. On Receipt	: Satisfactory
Poojapura, Thiruvananthapuram,		Date of Issue	: 28-Mar-23
Kerala - 695 012			
Details of UUC :			
Description	: Micropipette	Model No.	: --
Range	: 10 - 100 μ l	Serial No	: Nil
Least Count	: 1 μ l	Identification No.	: --
Make	: Nil	Accuracy	: As Per ISO 8655-6
Working range	: --	Location	: Lab
Details of Standard Used			
Name	Certificate No.	Valid upto	Traceability
Electronic SemiMicro Balance	2022-23/EQN/2205021-02	08-May-23	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="9.99"/>	<input type="text" value="9.96"/>	<input type="text" value="9.98"/>	<input type="text" value="9.99"/>
<input type="text" value="10.00"/>	<input type="text" value="10.03"/>	<input type="text" value="9.95"/>	<input type="text" value="9.98"/>
<input type="text" value="10.03"/>	<input type="text" value="10.00"/>		
Mean Value :	<input type="text" value="9.99"/>	μ l	
Error Limits(\pm)			
Systematic Error :	-0.01	μ l	0.12 μ l
Systematic Error :	-0.05	%	1.20 %
Random Error :	0.03	μ l	0.08 μ l
Random Error :	0.26	%	0.80 %
Measurement Uncertainty :	\pm	0.37	μ l

Calibrated by : 
S.B. RAJESH KUMAR
(Sr. Calibration Engineer)



Authorised by : 
V. RAJKARTHICK
(QM)

CALIBRATION CERTIFICATE

CRF No. : EQN/CRF/2303174 Page 2 of 2
 ULR No. : CC276023000004535F

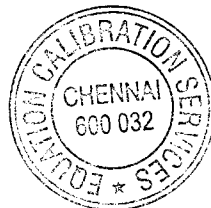
MECHANICAL CALIBRATION					
(Volume)					
Calibration Results					
2. Middle Volume :		50 μ l		No. of Measurements : 10	
50.06	50.09	50.07	50.00		
49.98	50.06	50.13	50.15		
50.12	50.06				
Mean Value :		50.07	μ l		
Error Limits(\pm)					
Systematic Error :		0.07	μ l	0.50	μ l
Systematic Error :		0.14	%	1.00	%
Random Error :		0.06	μ l	0.20	μ l
Random Error :		0.12	%	0.40	%
Measurement Uncertainty :		\pm	0.37	μ l	
3. Nominal Volume :		100 μ l		No. of Measurements : 10	
100.11	100.35	100.19	100.14		
100.19	100.16	100.05	100.13		
100.30	100.27				
Mean Value :		100.19	μ l		
Error Limits(\pm)					
Systematic Error :		0.19	μ l	0.80	μ l
Systematic Error :		0.19	%	0.80	%
Random Error :		0.09	μ l	0.30	μ l
Random Error :		0.09	%	0.30	%
Measurement Uncertainty :		\pm	0.37	μ l	

Remarks

1. The reported Expanded Uncertainty is calculated at 95% C.L with coverage factor $k=2$
2. The Above Results are within the maximum permissible Error

End of certificate

Calibrated by:
 S.B. RAJESH KUMAR
 (Sr. Calibration Engineer)



Authorised by:
 V. RAJKARTHICK
 (QM)


CALIBRATION CERTIFICATE

EQN/FT/7.8/01		Page 1 of 1	
CRF No.	: EQN/CRF/2303174	Date of Calibration	: 25-Mar-23
Certificate No	: 2022-23/EQN/2303174-01	Recom. Due Date	: 24-Mar-24
ULR No.	: CC276023000004533F		
Customer Details		Calibrated at	: Lab
M/s. REGIONAL AYURVEDA RESEARCH INSTITUTE		Date of Receipt	: 25-Mar-23
Opp. Saraswathi Mandapam, Shastrri Nagar,		Cond. On Receipt	: Satisfactory
Poojapura, Thiruvananthapuram,		Date of Issue	: 28-Mar-23
Kerala - 695 012			
Details of UUC :			
Description	: Micropipette	Model	: Proline
Range	: 10µl	Serial No	: 12648883
Least Count	: --	Identification No.	: --
Make	: Biohit	Accuracy	: As per Manual
Working range	: --	Location	: Lab
Details of Standard Used :			
Name	Certificate No.	Valid upto	Traceability
Electronic Semi Micro Balance	2022-23/EQN/2205021-02	08-May-23	EQN, Chennai.
CP No.	: EQN/CP/MS-03	Reference Standard	: ISO 8655-6
Environmental Details	: Temperature : 25±2°C	Relative Humidity	: 50±10 % RH
Calibration Results			
1. Nominal Volume :	10 µl	No. of Measurements :	10
<input type="text" value="10.06"/>	<input type="text" value="10.02"/>	<input type="text" value="10.00"/>	<input type="text" value="9.94"/>
<input type="text" value="9.99"/>	<input type="text" value="10.03"/>	<input type="text" value="10.02"/>	<input type="text" value="10.04"/>
<input type="text" value="10.05"/>	<input type="text" value="10.01"/>		
Mean Value :	<input type="text" value="10.02"/> µl		
Error Limits(±)			
Systematic Error :	0.02 µl	0.12 µl	
Systematic Error :	0.20 %	1.20 %	
Random Error :	0.03 µl	0.08 µl	
Random Error :	0.35 %	0.80 %	
Measurement Uncertainty :	± 0.37 µl		

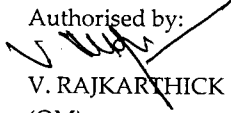
Remarks

- 1 The reported Expanded Uncertainty is calculated at 95% C.L with coverage factor k=2
- 2 The Above Results are within the maximum permissible Error

End of certificate

Calibrated by: 
S.B.RAJESH KUMAR
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Authorised by: 
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