YEA
YOUNG ENGG. & CALIBRATION SERVICES PVT. LTD.
☎ : 033 2677 1411/1412, 2667 1909
Admn. Office & Lab : Kamardanga Road (Opp. Tarama Ashram), Ichapur, Howrah - 711 104
E-mail : calibration@yeagroup.org ★ Visit us at : www.yeagroup.org
CIN : U74140WB2005PTC106389 ★ Toll Free Help Desk : 1800 345 9001

Calibration Certificate

Certificate No.: YEA(C)/ 231223A/I964/001 **Dated : 30.12.2023**
ULR No. : CC222123000082844F

Calibrated for : ICTC, District Hospital Mamit
Dist.: Mamit, Mizoram,
Pin - 796441.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
26.12.2023	26.12.2024	1	3

Description of Instrument

Name	: Micro Pipette
Identification	: ICTC/MMT/MP-01
Range	: 100 - 1000 µl
Least Count	: 5 µl
Make	: Erba Biohit (Sl. No. : 8018506)

CC-2221

Service Request No. / Order Reference	: 231223A/I964/001-002
Receipt of Instrument	: 23.12.2023
Location where calibration performed	: At permanent laboratory
Applicable Specification of Instrument to be Calibrated	: Not Specified
Condition of Instrument to be Calibrated	: Satisfactory
Basis of Calibration	: Comparison method with reference to YEA/WI/M-47
Environmental Condition during Calibration	: ***Temp. :*** (23±4)°C ***RH*** **:** (50±10)%
Equipment used for Calibration	: Standard Electronic Balance & Distilled Water
Traceability	: To National Standard vide Certificate No: YEA(C)/230925/Y001/001 valid till 24.09.2024 YEA(C)/231216/Y001/001 valid till 15.12.2024
Measurement Uncertainty	: The figures are stated in the result at coverage factor k = 2 corresponding to confidence probability of 95% for normal distribution.
Laboratory Identification	: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated
The results are given in the page 2 to ..... 3 ...of the certificate.

Cont...2

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Certificate No.: YEA(C)/ 231223A/I964/001 **Date: 30.12.2023**
ULR No. : CC222123000082844F
Calibrated By : M. Gayan

Calibration Results

Mechanical Calibration

A) Calibration Result of Micro Pipette :

Sl. No.	DUC Value	Standard Value	Mean Value	Systematic Error (es)	Random Error (cv)	Measurement Uncertainty
	(µl)	(µl)	(µl)	(µl)	(µl)	(± µl)
1	100	99.970	99.999	0.001	0.025	0.019
2		100.015				
3		99.979				
4		99.988		Standard Limit Value as Per ISO 8655 - 2 : 2002 (± µl)		
5		99.997				
6		100.032				
7		100.018				
8		100.022		0.800	0.300	
9		99.956				
10		100.016				

Sl. No.	DUC Value	Standard Value	Mean Value	Systematic Error (es)	Random Error (cv)	Measurement Uncertainty
	(µl)	(µl)	(µl)	(µl)	(µl)	(± µl)
1	500	499.944	499.893	0.107	0.028	0.023
2		499.888				
3		499.880				
4		499.941		Standard Limit Value as Per ISO 8655 - 2 : 2002 (± µl)		
5		499.880				
6		499.893				
7		499.866				
8		499.893		4.000	1.500	
9		499.860				
10		499.888				

cont....3

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ULR No. : CC222123000082844F
Calibrated By : M. Gayan

Date: 30.12.2023

Sl. No.	DUC Value	Standard Value	Mean Value	Systematic Error (es)	Random Error (cv)	Measurement Uncertainty
	(µl)	(µl)	(µl)	(µl)	(µl)	(± µl)
1	1000	999.911	999.940	0.060	0.029	0.023
2		999.967				
3		999.947				
4		999.915		Standard Limit Value as Per ISO 8655 - 2 : 2002 (± µl)		
5		999.978				
6		999.927				
7		999.979				
8		999.943		8.000	3.000	
9		999.933				
10		999.894				

DUC : Device Under Calibration

REMARKS : The above Micro Pipette has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.

Authorised By

A. Das
Manager Calibration

*** *End of the Calibration Certificate* ***