



YEA

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YOUNG ENGG. & CALIBRATION SERVICES PVT. LTD.

Admn. Office & Lab : 44, Shahid Khudiram Bose Sarani, (formerly Kamardanga Road), 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)/ 220620A/S3087/007

Dated : 22.06.2022

ULR No. : CC222122000029125F

Calibrated for : **Sanguine Diagnostics**

H - I/10, Durga Bhawan, VIP Road, Joramandir,
Baguiati (Near Calcutta Public School), Kolkata - 700159.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
21.06.2022	21.06.2023	1	3

Description of Instrument

Name : Micro Pipette
 Identification : Sl. No. : YL192AH0043510
 Range : 10 - 100 µl
 Least Count : 1 µl
 Make : Abdos



Service Request No. / Order Reference

: 220620A/S3087/001-010

Receipt of Instrument

: 20.06.2022

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±2)°C RH : (50±10)%

Equipment used for Calibration

: Standard Electronic Balance & Distilled Water

Traceability

: To National Standard vide Certificate No:
YEA(C)/210911/Y001/001 valid till 10.09.2022

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 up to its range.

The results are given in the page 2 to 3 ...of the Certificate.

Cont.....2

YEA(C)/F-08





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Calibrated By : M. Gayan

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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
	(μ l)	(μ l)	(μ l)	(μ l)	(μ l)	($\pm \mu$ l)
1	10	9.947	9.963	0.037	0.016	0.012
2		9.979				
3		9.987				
4		9.976				
5		9.941				
6		9.963				
7		9.944				
8		9.953				
9		9.971				
10		9.966				
				Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
				0.120	0.080	

Sl. No.	DUC Value	Standard Value	Mean Value	Systematic Error (es)	Random Error (cv)	Measurement Uncertainty
	(μ l)	(μ l)	(μ l)	(μ l)	(μ l)	($\pm \mu$ l)
1	50	49.738	49.730	0.270	0.015	0.012
2		49.732				
3		49.702				
4		49.731				
5		49.723				
6		49.714				
7		49.722				
8		49.746				
9		49.744				
10		49.749				
				Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
				0.500	0.200	


cont....3



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Sl. No.	DUC Value	Standard Value	Mean Value	Systematic Error (es)	Random Error (ev)	Measurement Uncertainty
	(μ l)	(μ l)	(μ l)	(μ l)	(μ l)	($\pm \mu$ l)
1	100	99.584	99.593	0.407	0.016	0.013
2		99.607				
3		99.599				
4		99.566				
5		99.594		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
6		99.602				
7		99.588				
8		99.577				
9		99.586		0.800	0.300	
10		99.625				

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 ***

