



YEA

YOUNG ENGG. & CALIBRATION SERVICES PVT. LTD.

☎ : 033 2677 1412, 2667 1909, 82329 85881

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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/S3087/008
ULR No. : CC222122000029126F

Dated : 22.06.2022

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. : FP81135
 Range : 2 - 20 µl
 Least Count : 0.5 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.

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YEA(C)/F-08



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Calibrated By : M. Gayan

Date: 22.06.2022

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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	2.0	1.959	1.957	0.043	0.014	0.011
2		1.948				
3		1.976				
4		1.939		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
5		1.954				
6		1.935				
7		1.972				
8		1.970		0.080	0.040	
9		1.951				
10		1.964				

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	10.0	10.094	10.086	-0.086	0.014	0.011
2		10.105				
3		10.077				
4		10.084		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
5		10.101				
6		10.073				
7		10.068				
8		10.094		0.120	0.080	
9		10.098				
10		10.067				


cont....3





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Sl. No.	DUC Value	Standard Value	Mean Value	Systematic Error (es)	Random Error (cv)	Measurement Uncertainty
	(μl)	(μl)	(μl)	(μl)	(μl)	($\pm \mu\text{l}$)
1	20.0	19.926	19.911	0.089	0.014	0.011
2		19.911				
3		19.933				
4		19.908		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu\text{l}$)		
5		19.917				
6		19.909		0.200	0.100	
7		19.891				
8		19.925				
9		19.893				
10		19.899				

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 ***

