



YEA

☎ : 033 2677 1412, 2667 1909, 82329 85881

Tele Fax : 033 2677 1411

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)/ 220203A/S2969/001
ULR No. : CC222122000005781F

Dated : 05.02.2022

Calibrated for : Synod Hospital
Durtlang,
Pin - 796025.

Calibrated on. 04.02.2022	Next Calibration Due On. 04.02.2023	Page No. 1	No. of Pages 3
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Description of Instrument

Name : Micro Pipette
Identification : SHD/ICTC/MP-01
Range : 20 - 200 µl
Least Count : 0.2 µl
Make : Aceupipet (Sl. No. : V46474)



Service Request No. / Order Reference : 220203A/S2969/001-002

Receipt of Instrument : 03.02.2022

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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Certificate No.: YEA(C)/ 220203A/S2969/001

Date: 05.02.2022

ULR No. : CC222122000005781F

Page 2 of 3 Pages

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
	(μ l)	(μ l)	(μ l)	(μ l)	(μ l)	($\pm \mu$ l)
1	20.0	20.143	20.173	-0.173	0.042	0.011
2		20.240				
3		20.160				
4		20.148				
5		20.169		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
6		20.194				
7		20.135				
8		20.110				
9		20.228				
10		20.202		0.200 0.100		

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	100.0	100.693	100.675	-0.675	0.046	0.012
2		100.667				
3		100.689				
4		100.659				
5		100.644		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
6		100.732				
7		100.608				
8		100.687				
9		100.621				
10		100.754		0.800 0.300		

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Certificate No.: YEA(C)/ 220203A/S2969/001

Date: 05.02.2022

ULR No. : CC222122000005781F

Page 3 of 3 Pages

Calibrated By : M. Gayan

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	200.0	200.759	200.793	-0.793	0.048	0.013
2		200.796				
3		200.710				
4		200.748				
5		200.799		Standard Limit Value as Per ISO 8655 - 2 : 2002 ($\pm \mu$ l)		
6		200.830				
7		200.795		1.600	0.600	
8		200.849				
9		200.871				
10		200.775				

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 ***





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CIN : U74140WB2005PTC106389 ★ Toll Free Help Desk : 1800 345 9001

Calibration Certificate

Certificate No.: YEA(C)/ 220203A/S2969/002
ULR No. : CC222122000005782F

Dated : 05.02.2022

Calibrated for : Synod Hospital
Durtlang,
Pin - 796025.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
04.02.2022	04.02.2023	1	2

Description of Instrument

Name : Glass Thermometer
Identification : SHD/ICTC/GT-01
Range : -30 to 150 °C
Least Count : 1 °C
Make : N/F

Service Request No. / Order Reference : 220203A/S2969/001-002

Receipt of Instrument : 03.02.2022

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/T-05

Environmental Condition during Calibration : *Temp.* : 25±2°C *RH* : 50±15%

Equipment used for Calibration : Standard Temperature Calibrator & Standard RTD Sensor

Traceability : To National Standard vide Certificate No.
YEA(C)/210722/Y001/001 valid till 21.07.2022
YEA(C)/ 210820/Y001/001 valid till 19.08.2022

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.



CC-2221

The above Instrument/Equipment/Machine has been calibrated up to its range.
The results are given in the page 2 to 2 ...of the Certificate.

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CIN : U74140WB2005PTC106389 ★ Toll Free Help Desk : 1800 345 9001

Certificate No.: YEA(C)/ 220203A/S2969/002

ULR No. : CC222122000005782F

Calibrated By : K. Rout

Date: 05.02.2022

Page 2 of 2 Pages

Calibration Results

Thermal Calibration

Calibration Results of Glass Thermometer

Sl. No.	DUC Value	Standard Value	Measurement Uncertainty
	(°C)	(°C)	(± °C)
1	-30	-29.84	0.67
2	0	0.06	
3	50	50.15	
4	100	100.29	
5	150	150.38	

DUC : Device Under Calibration

REMARKS : The above Glass Thermometer 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 ***





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CIN : U74140WB2005PTC106389 ★ Toll Free Help Desk : 1800 345 9001

Calibration Certificate

Certificate No.: YEA(C)/ 220211SA/S2969/001
ULR No.: CC222122000007483F

Dated : 12.02.2022

Calibrated for : Synod Hospital
Durtlang, Pin - 796025.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
11.02.2022	11.02.2023	1	2

Description of Instrument

Name : Refrigerator
 Identification : SHD/ICTC/REF-01
 Range : 2 to 8 °C
 Make : Samsung

Service Request No. / Order Reference

: 220211SA/S2969/001-002

Receipt of Instrument

: 11.02.2022

Location where calibration performed

: At site

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/T-04

Environmental Condition during Calibration

: Temp. : 30±10°C RH : 60±20%

Equipment used for Calibration

: Standard Temperature Calibrator & Standard RTD Sensor

Traceability

: To National Standard vide Certificate No.
YEA(C)/210722/Y001/001 valid till 21.07.2022
YEA(C)/ 210820/Y001/001 valid till 19.08.2022

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 2 of the Certificate.

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Certificate No.: YEA(C)/ 220211SA/S2969/001

ULR No.: CC222122000007483F

Calibrated By : S. Ghosh

Date: 12.02.2022

Page 2 of 2 Page

Calibration Results

Thermal Calibration

Calibration Results of Refrigerator

Sl. No.	Specified DUC Value	Standard Value	Measurement Uncertainty
	(°C)	(°C)	(± °C)
1	2 - 8	5.32	0.67

DUC : Device Under Calibration

REMARKS : The above Refrigerator 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

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Calibration Certificate

Certificate No.: YEA(C)/ 220211SA/S2969/002

Dated : 12.02.2022

Calibrated for : Synod Hospital
Durtlang, Pin - 796025.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
11.02.2022	11.02.2023	1	2

Description of Instrument

Name : Centrifuge
Identification : SHD/ICTC/CNF-01
Make : Remi
Model : C - 852

Service Request No. / Order Reference : 220211SA/S2969/001-002

Receipt of Instrument : 11.02.2022

Location where calibration performed : At site

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-44

Environmental Condition during Calibration : *Temp.* : 30±10°C *RH* : 60±20%

Equipment used for Calibration : Standard Digital Tachometer

Traceability : To National Standard vide Certificate No:
HT/CC/210909-04/001 dated 14.09.2021

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.

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

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CIN : U74140WB2005PTC106389 ★ Toll Free Help Desk : 1800 345 9001

Certificate No.: YEA(C)/ 220211SA/S2969/002

Calibrated By : S. Ghosh

Date: 12.02.2022

Page 2 of 2 Pages

Calibration Results

Calibration Results of Centrifuge

Sl. No.	Knob Set At	Observed Standard Value	Measurement Uncertainty
		rpm	± rpm
1	1	952.5	2.00
2	2	1732.2	
3	3	2356.1	
4	4	2985.9	
5	5	3479.6	

DUC : Device Under Calibration

REMARKS : The above Centrifuge 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

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