

CALIBRATION CERTIFICATE

EQN/FT/7.8/01

Page 1 of 1

CRF No.	EQN/CRF/2112007	Date of Calibration	29-Nov-21
Certificate No	2021-22/EQN/2112007-12	Recom.Due Date	28-Nov-22
ULR No.	CC276021000011435F		

CUSTOMER DETAILS :	
M/s. BIOLINE LABORATORY CKS Building 2nd Floor, No. 21/829 Kallai Main Road, Calicut - 673 003, Kerala	Calibrated at : On Site Date of Receipt : 29-Nov-21 Cond.On Receipt : Satisfactory Date of Issue : 02-Dec-21

DETAILS OF UUC :			
Description	Autoclave (Pressure Gauge)	Identification No.	BL/KALLAI/MB/AC-01
Range	0 to 2 kg/cm ²	Serial No.	--
Least Count	1 kg/cm ²	Make	Shiva
Cal./Working Range	--	Model / Type	--
Location	Microbiology Lab	Accuracy	As Per Manual

DETAILS OF STANDARD USED :			
Master Name	Lab ID No. / Sr No.	Valid upto	Certificate No.
Dig. Pressure Gauge	INS/PR/14 / NVEM1705019	22-Dec-21	2020-21/EQN/MASTER-254

CP No.	EQN/CP/ML-01
Environmental Details	Temperature: 23±5°C Relative Humidity: 40-70 % RH

CALIBRATION RESULTS

Mechanical - Pressure Indicating Devices

Sl. No.	Test Readings kg/cm ²	Std Readings		Mean Value kg/cm ²	Error kg/cm ²	Hysteresis kg/cm ²	Uncertainty kg/cm ² (±)
		kg/cm ²					
		Up	Down				
1	0.0	0.000	0.000	0.000	0.000	0.000	--
2	0.5	0.475	0.459	0.467	0.033	0.016	0.577
3	1.0	0.956	0.948	0.952	0.048	0.008	0.577
4	1.5	1.469	1.435	1.452	0.048	0.034	0.577
5	2.0	1.970	1.970	1.970	0.030	0.000	0.578

Remarks:

1. The reported Expanded Uncertainty is calculated at 95.45 % C.L with coverage factor $k=2$
2. Pressure conversion: 1 kg/cm² = 98066.5 Pa

END

Issued by :  Engineer - Calibration K.VIGNESHWARAN		Authorized by :  Technical Manager K.YOGANATHAN
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EQUATION CALIBRATION SERVICES PRIVATE LIMITED

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Page 1 of 1

CRF No.	: EQN/CRF/2112007	Date of Calibration	: 29-Nov-21
Certificate No	: 2021-22/EQN/2112007-09	Recom. Due Date	: 28-Nov-22
ULR No.	: CC276021000011432F		

Customer Details	
M/s. BIOLINE LABORATORY	Calibrated at : Onsite
CKS Building 2nd Floor,	Date of Receipt : 29-Nov-21
No. 21/829 Kallai Main Road,	Cond. On Receipt : Satisfactory
Calicut - 673 003, Kerala	Date of Issue : 02-Dec-21

DETAILS OF UUC :			
Description	: Autoclave (Temperature)	Identification No.	: BL/KALLAI/MB/AC-01
Range	: 121°C	Serial No.	: --
Least Count	: --	Make	: --
Cal./Working Range	: --	Model / Type	: --
Location	: Microbiology Lab	Accuracy	: As Per Manual

DETAILS OF STANDARD USED :			
Master Name	Lab ID No. / Sr No.	Valid upto	Certificate Number
Portable Calibrator	INS/ET/02	07-Dec-21	2020-21/EQN/MASTER-263
RTD	INS/TM/29	14-Aug-22	2021-22/EQN/210820-46


CP No.	: EQN/CP/TL-03
Environmental Details	: Temperature: 25±5°C Relative Humidity: 45-70 % RH

THERMAL CALIBRATION - (Temperature)

CALIBRATION RESULT				
Sl.No.	TEST READING (°C)	STD READING (°C)	ERROR (°C)	UNCERTAINTY ± (°C)
1	121	119.23	1.77	0.60

Remark :

1. Reading given was the average of 3 Measurements.
2. The reported Expanded Uncertainty is calculated at 95 % C.L Approx with coverage factor $k=2$
3. Temperature scale: ITS 90

Issued by :  Engineer - Calibration k.vigneshwaran		Authorized by :  TM K. Yoganathan
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