



MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,
KOLKATA - 700120, W.B.

Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974,
LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in



CC - 2545

CALIBRATION CERTIFICATE OF AUTOCLAVE

CALIBRATION CERTIFICATE NO.: MTL / SQDPL / R07 / 03 - 24

ULR - CC254524000012764F

Page: 1 of 2

1.0 Service Request No.: MTL / 18A / 03 / 23 - 24

1.1 Issued to: M/s. SpectroQ Diagnostics Pvt. Ltd.
Plot No. - 853 / 4786, 1st Floor,
Jharapada, Govinda Prasad, Cuttack Road,
Bhubaneswar, Khordha - 751006.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Autoclave	b) Code No.:	AC - 01
	c) SI No.:	N.S.	d) Make:	Shiva (for Pressure Gauge)
	e) Model / Type:	N.S.	f) Range:	As Per Report
	g) Sensor:	N.A.	h) Resolution:	As Per Report
	i) End User:	Lab	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 18-03-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 18-03-24

1.6 Recommended date of next calibration : 18-03-25

1.7 Date of Issue : 21-03-24

1.8 Environmental Conditions During Calibration:	Temperature:	22.10 °C
	Humidity:	63.25 % RH

1.9 Method of Calibration: SOP / MD/10

2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

- | | |
|--|---|
| i) Data Acquisition Switch Unit Cal. Certificate No. JRPM-CF-2023-ET-CSRF-1012-C-1626 (JRPM, Chennai) | (Cal. Date: 25/08/23, Due Date: 23/08/24) |
| ii) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R01 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 02/03/24, Due Date: 02/03/25) |
| iii) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R02 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 02/03/24, Due Date: 02/03/25) |
| iv) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R03 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 02/03/24, Due Date: 02/03/25) |
| v) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R04 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 02/03/24, Due Date: 02/03/25) |
| vi) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R05 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 02/03/24, Due Date: 02/03/25) |
| vii) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R06 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 04/03/24, Due Date: 04/03/25) |
| viii) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R07 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 04/03/24, Due Date: 04/03/25) |
| ix) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R08 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 04/03/24, Due Date: 04/03/25) |
| x) RTD (PT - 100) Cal. Certificate No. MTL / TH / RTD / R09 / 03 - 24 (MTL, Barrackpore) | (Cal. Date: 04/03/24, Due Date: 04/03/25) |
| xi) Digital Pressure Calibrator Cal. Certificate No. MTL / PR / DPC / R01 / 07 - 23 (MTL, Barrackpore) | (Cal. Date: 20/07/23, Due Date: 20/07/24) |

Calibration Engineer

Measure Techno Lab

Kolkata

Sahin Habibulla

Calibration Engineer



Checked / Approved by:

Quality / Technical Manager
S Pandey

Form No. - MTL/22B/2022

Issue No. : 1

Issue Date : 01.09.2022

Rev. No. : 00

Rev. Date : 00.00.00



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2.1 Calibration Result :

Medical Device:

Sl. No.	Parameter/ Range	Temperature Set at °C	Measured Value on DUC			Corrected Std. Value			Error °C	Zone	Expanded Uncertainty ± °C
			Min. °C	Max. °C	Average °C	Min. °C	Max. °C	Average °C			
1.	Temperature	121	---	---	---	121.13	121.21	121.170	---	1	2.55
						121.22	121.30	121.260			
						121.36	121.41	121.385			
						121.41	121.44	121.425			
						121.44	121.52	121.480			
						121.56	121.63	121.595			
						121.61	121.74	121.675			
						121.66	121.79	121.725			
						121.68	121.84	121.760			

Sl. No.	Parameter/ Range	Pressure Set at psi	Measured Value on DUC			Corrected Std. Value			Error psi	Expanded Uncertainty ± psi
			Min. psi	Max. psi	Average psi	Min. psi	Max. psi	Average psi		
1.	Pressure	15	15	15	15.0	15.10	15.29	15.195	-0.195	1.69

- Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.
 ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.
 iii) Average Reading obtained by 10 Readings (During the Sterilization hold period.)
 iv) Error = Average DUC Reading - Average Standard Reading.
 v) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable Std. - Standard Min. - Minimum
 Max. - Maximum

Opinions and Interpretations

Calibrated	✓	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer
 Measure Techno Lab
 Kolkata
 Sahin Habibulla S. Habibulla
 Calibration Engineer

Checked / Approved by:

 Quality / Technical Manager
 S. Pandey

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