



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

CALIBRATION CERTIFICATE OF FREEZER (VISICOOLER)

CC - 2545

CALIBRATION CERTIFICATE NO.: MTL / SQDPL / R04 / 03 - 24

ULR - CC254524000012761F

Page: 1 of 1

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:	Freezer (Visicooler)	b) Code No.:	FZ - 01
	c) SI No.:	31858210802165	d) Make:	Western
	e) Model / Type:	SRC 500 - GL	f) Range:	2 °C to 8 °C
	g) Sensor:	N.A.	h) Resolution:	N.A.
	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: 25 °C ± 2 °C
Humidity: 55 % RH ± 10 % RH

1.9 Method of Calibration: SOP / TH / 05

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 Unit Cal. Certificate No. C&I/CAL/23-12/060 (C&I/CPL, Jaipur) (Cal. Date: 13/12/23, Due Date: 13/12/24)
- ii) 4 Wire RTD Cal. Certificate No. TL / 023 / 568.1.1 (TEMPSENS, Udaipur) (Cal. Date: 13/05/23, Due Date: 12/05/24)

2.1 Result :

Thermal Calibration (Temperature)

Sl. No.	Parameter/ Range	Corrected Std. Value					Rack	Measurement Expanded Uncertainty ± °C
		Min. Ohms	Min. °C	Max. Ohms	Max. °C	Average °C		
1.	Temperature 2 °C to 8 °C	101.761	4.51	101.804	4.62	4.578	1	0.31
		101.789	4.58	101.836	4.70	4.654	2	0.31
		101.808	4.63	101.855	4.75	4.701	3	0.31
		101.840	4.71	101.879	4.81	4.771	4	0.31
		101.886	4.83	101.910	4.89	4.871	5	0.31
		101.937	4.96	101.949	4.99	4.989	6	0.31

- 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.
iv) 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

Calibrated by: Engineer
Measure Techno Lab
Kolkata

Checked / Approved by:
KOLKATA
Quality / Technical Manager

S. Pandey