

ภาคผนวก 10

เอกสารสอบเทียบเครื่องมือตรวจวัด
ห้องปฏิบัติการวิเคราะห์เอกชน

CAL

Calibratech Co.,Ltd.

7/106-7 Moo 2, Sukhprachasan 3 Rd., Bangpood, Pakkret, Nonthaburi 11120

Tel.(02) 964-6211 Fax.(02) 964-5155, e-mail : calibratech.cal@yahoo.com, calibratech.cal@hotmail.com



NSC-TISI-TIS 17025
CALIBRATION 0030

Certificate of Calibration

Certificate No. : 67-400217-1

Page : 1 of 2

Submitted by : Special Lab Envi and Consultant Co., Ltd.
47/91 Moo 3 Thambol Tha-it, Pakkret, Nonthaburi 11120

Equipment : Temperature controlled enclosure(Incubator)
Manufacturer : Lovibond **Model :** FKU 1800
Range : N/A °C **Resolution :** 0.1 °C
Serial No. : 0925481-19 **ID No. :** LB-Eq-005

Environment : On site calibration was carried out at the Laboratory, Special Lab Envi and Consultant Co., Ltd.
Ambient Temperature : (24.0 to 25.0) °C
Relative Humidity : (50 to 55) %
Line Voltage : (226.0 to 226.5) V

Date of Received : 20 April 2024

Date of Calibration : 20 April 2024

Date of Issue : 26 April 2024


Calibrated by : Kittisak Kokaeo

Calibration Method : CAL-M4004, TLAS G-20

The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units
Standard Digital Thermometer with RTD Probe

ID No.	Cert. No.	Due Date	Traceability
400046 & 400047	67-400047-2	26 Jul 2024	National Institute of Metrology Thailand (NIMT)

Approved by : 
 (Surachai Promthong)
 Laboratory Manager

The Uncertainties are for a confidence probability of approximately 95%

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CAL-F0031-03

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Tel.(02) 964-6211 Fax.(02) 964-5155, e-mail : calibratech.cal@yahoo.com, calibratech.cal@hotmail.com

Certificate of Calibration

Certificate No. : 67-400217-1

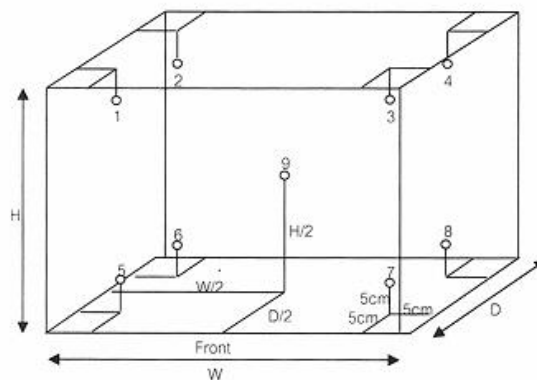
Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

This instrument was setting air ventilation at position 0 (close)



Inside of Chamber
 W = 0.55 m
 D = 0.73 m
 H = 0.50 m
 Capacity = 0.20 m³

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.									Uncertainty (± °C)
			1	2	3	4	5	6	7	8	9	
30.0	30.0	30.0	30.09	30.21	30.18	30.17	30.52	30.49	30.13	30.32	30.13	0.31
35.0	35.0	35.0	34.95	35.17	35.13	35.14	35.62	35.67	35.04	35.40	35.19	0.32
37.0	37.0	37.0	36.94	37.16	37.13	37.11	37.60	37.64	37.02	37.37	37.16	0.33

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Uniformity (°C)	Measured Stability (°C)	Overall Variation (°C)
30.0	30.0	30.0	0.42	0.03	0.46
35.0	35.0	35.0	0.50	0.04	0.77
37.0	37.0	37.0	0.51	0.06	0.79

Remark The uncertainty is not combine uniformity of the air chamber

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

- o0o -

Handwritten signature



CAL-F0031-03

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Certificate of Calibration

Certificate No. : 67-400217-2

Page : 1 of 2

Submitted by : Special Lab Envi and Consultant Co., Ltd.
47/91 Moo 3 Thambol Tha-it, Pakkret, Nonthaburi 11120

Equipment : Temperature controlled enclosure(Incubator)
Manufacturer : Lovibond Model : FKU 1800
Range : N/A °C Resolution : 0.1 °C
Serial No. : 0914643-01 ID No. : LB-Eq-004

Environment : On site calibration was carried out at the Laboratory, Special Lab Envi and Consultant Co., Ltd.
Ambient Temperature : (26.0 to 27.0) °C
Relative Humidity : (45 to 50) %
Line Voltage : (226.0 to 226.5) V

Date of Received : 20 April 2024

Date of Calibration : 20 April 2024


Date of Issue : 26 April 2024

Calibrated by : Kittisak Kokaeo

Calibration Method : CAL-M4004, TLAS G-20
The temperature scale used was based on ITS-90

Reference Standard Instruments : This certification is traceable to the International System of Units
Standard Digital Thermometer with RTD Probe

ID No.	Cert. No.	Due Date	Traceability
400046 & 400042	67-400047-1	25 Jul 2024	National Institute of Metrology Thailand (NIMT)

Approved by : 
(Surachai Promthong)
Laboratory Manager

The Uncertainties are for a confidence probability of approximately 95%

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Certificate of Calibration

Certificate No. : 67-400217-2

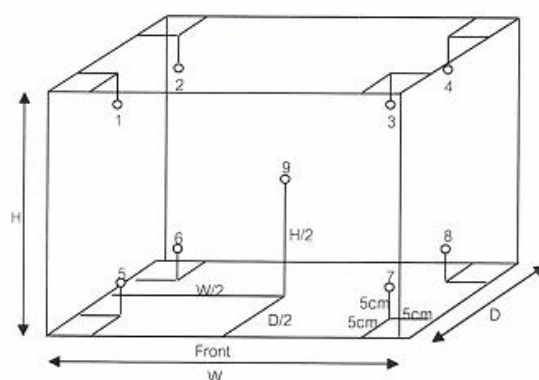
Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement

This instrument was setting air ventilation at position 0 (close)



Inside of Chamber
 W = 0.55 m
 D = 0.73 m
 H = 0.50 m
 Capacity = 0.20 m³

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Temperature (°C) @ Sensor No.									Uncertainty (± °C)
			1	2	3	4	5	6	7	8	9	
20.0	19.9	19.9	20.27	20.24	20.07	20.06	20.15	20.14	20.21	20.03	20.12	0.44

Test Point (°C)	Setting Temperature (°C)	Indicating Temperature (°C)	Measured Uniformity (°C)	Measured Stability (°C)	Overall Variation (°C)
20.0	19.9	19.9	0.24	0.20	0.54

Remark The uncertainty is not combine uniformity of the air chamber

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k = 2 , providing a level of confidence of approximately 95%

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AB



CAL-F0031-03

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NSC-TISI-TIS 17025
CALIBRATION 0030

Certificate of Calibration

Certificate No. : 67-200136-1

Page : 1 of 2

Submitted by : Special Lab Envi and Consultant Co., Ltd.
47/91-93 Moo 3, Tambol Tha-It, Pakkret, Nonthaburi 11120

Equipment : Electronic Balance
Manufacturer : AND Model : GR-200
Serial No. : 14245322 ID No. : LB-Eq-016
Capacity : 210 g Resolution : 0.0001 g

Environment : On site calibration was carried out at the Laboratory,
Special Lab Envi and Consultant Co., Ltd.
Ambient Temperature : (27.3 to 27.7) °C
Relative Humidity : (42.5 to 44.0) %
Air Pressure : 1006.0 mbar

Date of Received : 20 April 2024

Date of Calibration : 20 April 2024

Date of Issue : 24 April 2024

Calibrated by : Akaradath Thippichai

Calibration Method : In-house method CAL-M2001 based on UKAS Publication ref : LAB 14
Edition 7 - November 2022

Reference Standard Instruments : This certification is traceable to the International System of Units

Standard Weights

ID No.	Cert. No.	Due Date	Traceability
E261-E2624	C02232088	08 Nov 2024	National Institute of Metrology (Thailand), (NIMT)

Approved by :

(Surachai Promthong)

Laboratory Manager

The Uncertainties are for a confidence probability of approximately 95%

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CAL-F0031-03

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Certificate of Calibration

Certificate No. : 67-200136-1

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Departure of indication from nominal value

Nominal Value (g)	Correction (g)	Uncertainty \pm (g)
0.001	0.0000	0.00012
0.01	0.0000	0.00012
0.1	0.0000	0.00012
0.5	0.0000	0.00013
2	0.0000	0.00013
5	-0.0001	0.00013
10	0.0000	0.00013
50	0.0000	0.00015
100	0.0000	0.00020
200	0.0001	0.00038

This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2.06$, providing a level of confidence of approximately 95%

Eccentric error Load test : 50 g

A	B	C	D	E
-0.0003	0.0000	0.0006	-0.0001	0.0000

g



Repeatability Load test : 200 g

Stdev. : 0.00005 g

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CAL-F0031-03



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3 : EQUIPMENT CALIBRATION AND TESTING SERVICES

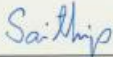
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250

TEL. 0-2717-3000 FAX. 0-2719-9484

Cert.No.: 24TW29

Page.: 1 of 2

Certificate of Testing

Equipment :	DO Meter
Manufacturer :	Hanna
Model :	HI98193
Serial No. :	03030056991
ID No. :	LB-Eq-014
Received Date :	05 February 2024
Test Date :	06 February 2024
Reference :	2402-0129WN-1
Submitted by :	Special Lab Envi And Consultant Co.,Ltd 47/91-93, 96 Moo 3 Thambon Tha-it, Pakkret, Nonthaburi 11120
Laboratory Condition :	Temperature (25 ± 5) °C Humidity (50 ± 20) %
Test Procedure :	In - house method : CP-CH9 by Comparison Technique with Azide Modification Method
Tested by :	Walalak Sirithean
Approved by :	 Approved Signatory
(<input checked="" type="checkbox"/>) Saithip Meangmai (<input type="checkbox"/>) Warakorn Lemgagtrakul (<input type="checkbox"/>) Ponpan Paipim	
Issue Date :	7 February 2024

B 0333618



Cert.No.: 24TW29

Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

This certification is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

<u>Instruments</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1. Burette	-	130BU10	23CG1172	22 Mar 2025
2. Balance	1124013382	140RC006	23MM18	20 Feb 2024

2. Standard Material :-

<u>Material</u>	<u>Manufacturer</u>	<u>Lot.No.</u>	<u>Assay</u>
Sodium Thiosulfate pentahydrate	Merck	AM1763316	100.2%

Result : Dissolved Oxygen Meter Adjustment With Air 100 %

Dissolved Oxygen Probe No.: KC1N20CDJ

Titration Method (Azide Modification Method) (mg/L)	DO Meter Reading (mg/L)	Standard Deviation (mg/L)
8.18	8.18	0.0084

This report was certified only for the instrument we tested. It is allowable to use for study
Intend to use for advertising and referral purpose is prohibited. This report may not be reproduced
other in full, without written approval of the laboratory

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Saitthip

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BECTHAI BANGKOK EQUIPMENT & CHEMICAL CO., LTD.
CALIBRATION LABORATORY

99/9 Moo 2, Maha Sawet, Phutthamonthon, Nakhon Pathom 73170, Thailand. Tel: +66 3424 5299 Fax: +66 3424 5250
 E-mail: bkk@becthai.com Website: www.becthai.com



NSC-TISI-TIS 17015
 CALIBRATION 0131
 Page : 1 of 3

Certificate No. : CAL-24-099

CERTIFICATE OF CALIBRATION

Equipment	:	Spectrophotometer
Manufacturer	:	Thermo Scientific
Model	:	Genesys 20
Serial No.	:	3SGT041007
ID No.	:	LB-Eq-029
Customer	:	Special Lab Envi And Consultant Co.,Ltd.
	:	47/91-93 Moo 3, Tambol Tait, Amphur Pakrad,
	:	Nonthaburi, 11120
Location	:	Becthai Laboratory
Date of Receipt	:	30 April 2024
Date of Calibration	:	2 May 2024
Date of Issue	:	2 May 2024
Ambient Temperature	:	(25±10) °C
Relative Humidity	:	(60±20) %
Condition As-Received	:	Used Item

Calibrated by
 Ms. Bussayamas Noppakhun
 Calibration Engineer

Approved by

 (Ms. Jintana Sangthajaroenlap)
 Calibration Manager

The reported expanded uncertainty of measurement was based on a combined standard uncertainty multiplied by a coverage factor k providing a level of confidence of approximately 95%.

This certificate may not be reproduced other than in full, except with the prior written approval of the head of Calibration Laboratory.

Indicated values are valid for the state of the Spectrophotometer at the time of calibration only.

ISSUE: 6 REV:5

FM-CAL-33/2

20/02/24



BECTHAI BANGKOK EQUIPMENT & CHEMICAL CO., LTD.
CALIBRATION LABORATORY

99/9 Moo 2, Mahe Sawet, Phutthamonthon, Nakhon Pathom 73170, Thailand. Tel :+66 3424 5299 Fax :+66 3424 5250
 E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-24-099

Page : 2 of 3

CALIBRATION REPORT

Conditions of this result of calibration

1. Reference Standard Material :

Material	Model	Serial No.	Cert.No.	Due date
Holmium Glass Filter	RM-HG	12705	117342	13 December 2025
Neutral Density Filter	RM-1N2N3N	8323	117341	13 December 2025

2. **Traceability** : This certification is traceable to the International System of Unit maintained at ;
 The Starna Scientific Ltd. Accredited Calibration Laboratory No. 0659.

3. Method of calibration :

The calibration procedure was carried out according to ASTM E275-08 (2022) and ASTM E925-09 (2014).

4. Result of calibration :

(☒) without adjustment (☐) after adjustment

5. Equipment Specifications:

Spectral Bandwidth :	8	nm
Data Interval :	1	nm
Scan Speed :	N/A	nm/min

ISSUE: 6 REV:5

FM-CAL-33/2

20/02/24



BECTHAI BANGKOK EQUIPMENT & CHEMICAL CO., LTD.
CALIBRATION LABORATORY

99/9 Moo 2, Maha Sawat, Phutthamonthon, Nakhon Pathom 73170, Thailand. Tel :+66 3424 5299 Fax :+66 3424 5250
 E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-24-099

Page : 3 of 3

CALIBRATION REPORT

Wavelength Calibration

Certified Values of Reference Material	Nominal Value (nm)	UUC*Reading (nm)	Error (nm)	Uncertainty of Measurement (\pm nm)	k Factor
418.40	418	418	-0.40	0.59	2.00
537.00	537	537	0.00	0.59	2.00
638.00	638	639	1.00	0.59	2.00

Photometric Calibration for Visible

Wavelength (nm)	Certified Values of Reference Material (A)	UUC* Reading (A)	Error (A)	Uncertainty of Measurement (\pm A)	k Factor
420.0	Zero	0.000	0.0000	0.0028	2.00
	0.5703	0.573	0.0027	0.0045	2.00
	0.7336	0.734	0.0004	0.0045	2.00
	1.0709	1.075	0.0041	0.0045	2.00
440.0	Zero	0.000	0.0000	0.0028	2.00
	0.5592	0.557	-0.0022	0.0045	2.00
	0.716	0.717	0.0010	0.0045	2.00
	1.0454	1.044	-0.0014	0.0045	2.00
465.0	Zero	0.000	0.0000	0.0028	2.00
	0.5094	0.511	0.0016	0.0045	2.00
	0.6601	0.664	0.0039	0.0045	2.00
	0.963	0.966	0.0030	0.0045	2.00
546.1 (546.0)	Zero	0.000	0.0000	0.0028	2.00
	0.5206	0.523	0.0024	0.0045	2.00
	0.6677	0.665	-0.0027	0.0045	2.00
	0.9763	0.979	0.0027	0.0045	2.00
590.0	Zero	0.000	0.0000	0.0028	2.00
	0.5522	0.555	0.0028	0.0045	2.00
	0.6966	0.699	0.0024	0.0045	2.00
	1.0201	1.022	0.0019	0.0045	2.00
635.0	Zero	0.000	0.0000	0.0028	2.00
	0.5377	0.538	0.0003	0.0045	2.00
	0.6649	0.667	0.0021	0.0045	2.00
	0.9736	0.977	0.0034	0.0045	2.00

Remark : Each individual filter is measured against the empty filter holder (blank) used to zero the Spectrophotometer.

Note:

UUC* : Unit Under Calibration

- End of Report -

ISSUE: 6 REV:5

FM-CAL-33/2

20/02/24

<div style="text-align: center;"> <h2 style="margin: 0;">Calibratech Co.,Ltd.</h2> <p style="font-size: 0.8em; margin: 0;">7/106-7 Moo 2, Sukhaprachasan 3 Rd., Bangpood, Pakkred, Nonthaburi 11120 Tel.(02) 964-6211 Fax.(02) 964-5155, e-mail : calibratech.cal@yahoo.com, calibratech.cal@hotmail.com</p> </div>	 <small>NSC-TISI-TIS17025 CALIBRATION 0030</small>								
<h3 style="color: #0070C0;">Certificate of Calibration</h3>									
Certificate No. : 67-300222-6	Page : 1 of 2								
Submitted by : Special Lab Envi and Consultant Co., Ltd. 47/91-93 Moo 3,Tambol Tha-It, Pakkret, Nonthaburi 11120									
Equipment : Burette <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Manufacturer : Witeg Class : A </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Capacity : 25 ml Graduation : 0.05 ml </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> ID No. : LB-Gw-001 </div>									
Environment : Ambient Temperature : (20 ± 3) °C Relative Humidity : (50 ± 10) % Air Pressure : 1002.7 mbar.									
Date of Received : 20 April 2024 Date of Calibration : 27 April 2024 Date of Issue : 27 April 2024 Calibrated by : Wipa Tovadee									
Calibration Method : In-house method CAL-M3001 based on ASTM E 542-22									
Reference Standard Instruments : This certification is traceable to the International System of Units									
Electronic Balance									
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; font-weight: normal;">ID No.</th> <th style="text-align: left; font-weight: normal;">Cert. No.</th> <th style="text-align: left; font-weight: normal;">Due Date</th> <th style="text-align: left; font-weight: normal;">Traceability</th> </tr> </thead> <tbody> <tr> <td>241003</td> <td>66-200388-2</td> <td>02 Jun 2024</td> <td>National Institute of Metrology (Thailand) (NIMT)</td> </tr> </tbody> </table>	ID No.	Cert. No.	Due Date	Traceability	241003	66-200388-2	02 Jun 2024	National Institute of Metrology (Thailand) (NIMT)	
ID No.	Cert. No.	Due Date	Traceability						
241003	66-200388-2	02 Jun 2024	National Institute of Metrology (Thailand) (NIMT)						
<div style="text-align: right;"> Approved by : (Wipa Tovadee) Supervisor </div>									
<div style="font-size: 0.8em;"> The Uncertainties are for a confidence probability of approximately 95% This certificate may not be reproduced other than in full except with the prior written approval of the Calibratech Co.,Ltd. </div> <div style="text-align: right; margin-top: 10px;"> </div>									
<div style="font-size: 0.7em;"> CAL-F0031-03 </div>									

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7/106-7 Moo 2, Sukhprachasan 3 Rd., Bangpood, Pakkred, Nonthaburi 11120
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Certificate of Calibration

Certificate No. : 67-300222-6

Result of Calibration : This result of true Volume is referred to standard temperature at 20 °C

UUC Condition As-Received : Good

Delivery Time : 40.01 sec.

Page : 2 of 2


Nominal Volume (ml)	Measuring Volume (ml)
10	10.0029
20	20.0018
25	25.0167

Uncertainty of measurement with in \pm 0.0066 ml


This result of calibration was found accurate as shown on date and place of calibration only.

This reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2.00$, providing a level of confidence of approximately 95%

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CAL-F0031-03





Thermology Co., Ltd.

96/177-96/178 Moo 6, T. La-harn, A. Bangbuathong, Nonthaburi 11110
Tel : 0 2191 6479 Fax : 0 2191 6480 website : www.thermology.co



CALIBRATION CERTIFICATE

Date of Issue Jun 21, 2024

Cert No. 24/2294

Site Calibration

Order No. 24060309

Customer SPECIAL LAB ENVI AND CONSULTANT CO., LTD.
47/91 Moo 3, Tha-It, Pakkert, Nonthaburi 11120

Place of Calibration Laboratory Room

Description Oven

Model UF30

Serial No. B123.0544

ID.No. LB-Eq-047

Date of Receipt Jun 19, 2024

Date of Calibration Jun 19, 2024

Environment

Temperature (Min) 29.2 °C (Max) 33.1 °C

Relative Humidity (Min) 40.6 %RH (Max) 49.7 %RH

Calibration Method

WI-17 : The reference thermometer was placed into the chamber and measurement was performed based on AS-2853.

The temperature scale in use at this laboratory is the International Temperature Scale of 1990.

Standard

1) Data Acquisition with Sensor Model 34972A S/N. MY59002130, Certificate No. QR24-0873, Calibrated by Quality Reborn Co., Ltd., ONAC Calibration No. 0292. Due Date Apr 18, 2025.

This certificate is traceable to SI unit.

Page 1 of 4

[Signature]

This certificate is issued in accordance with the conditions of Thermology Laboratory. The traceability to recognised national standard and the unit of measurement realised at corresponding national standard laboratory. This certificate may not be reproduced other than in full except with the prior written approval of laboratory.



Thermology Co., Ltd.

96/177-96/178 Moo 6, T. La-harn, A. Bangbuathong, Nonthaburi 11110
Tel : 0 2191 6479 Fax : 0 2191 6480 website : www.thermology.co



CALIBRATION CERTIFICATE

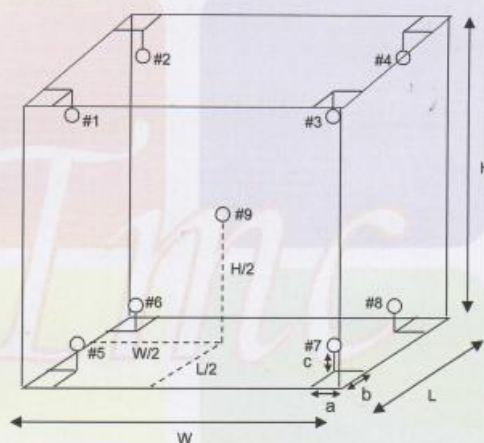
Date of Issue Jun 21, 2024

Cert No. 24/2294

Site Calibration

Order No. 24060309

Results (without adjustment)



Position of reference thermometers were placed

Note.

- 1). Dimension (W x L x H) is 40 x 25 x 32 cm.
- 2). Stability - greatest one half of difference between max peak and min peak of each reference probe measured temperature obtained during the calibration interval.
- 3). Uniformity - the maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady state conditions. The reference sensor should preferably be located at the geometric center of the chamber.

DM



Thermology Co., Ltd.

96/177-96/178 Moo 6, T. La-harn, A. Bangbuathong, Nonthaburi 11110
Tel : 0 2191 6479 Fax : 0 2191 6480 website : www.thermology.co



CALIBRATION CERTIFICATE

Date of Issue Jun 21, 2024

Cert No. 24/2294

Site Calibration

Order No. 24060309

Results (without adjustment)

Cal Point (°C)	UUC Setting (°C)	UUC Reading (°C)	Reference Thermometer (°C)		Stability ±(°C)	Uniformity (°C)	Uncertainty ±(°C)
104.0	104.0	104.0	Position 1	104.402	0.079	0.697	0.35
			Position 2	103.716			
			Position 3	103.784			
			Position 4	103.652			
			Position 5	104.005			
			Position 6	103.668			
			Position 7	103.555			
			Position 8	103.750			
			Position 9	103.743			

Cal Point (°C)	UUC Setting (°C)	UUC Reading (°C)	Reference Thermometer (°C)		Stability ±(°C)	Uniformity (°C)	Uncertainty ±(°C)
150.0	150.0	150.0	Position 1	151.015	0.115	1.214	0.44
			Position 2	149.798			
			Position 3	149.866			
			Position 4	149.624			
			Position 5	150.425			
			Position 6	149.715			
			Position 7	149.490			
			Position 8	150.027			
			Position 9	149.857			



Thermology Co., Ltd.

96/177-96/178 Moo 6, T. La-harn, A. Bangbuathong, Nonthaburi 11110
Tel : 0 2191 6479 Fax : 0 2191 6480 website : www.thermology.co



CALIBRATION CERTIFICATE

Date of Issue Jun 21, 2024

Cert No. 24/2294

Site Calibration

Order No. 24060309

Results (without adjustment)

Cal Point (°C)	UUC Setting (°C)	UUC Reading (°C)	Reference Thermometer (°C)		Stability \pm (°C)	Uniformity (°C)	Uncertainty \pm (°C)
180.0	180.0	180.0	Position 1	181.152	0.102	1.491	0.49
			Position 2	179.669			
			Position 3	179.665			
			Position 4	179.354			
			Position 5	180.529			
			Position 6	179.540			
			Position 7	179.221			
			Position 8	180.082			
			Position 9	179.702			

The stability and uniformity was taken into account in the measurement uncertainty stated.

The above results are valid exclusively for calibration samples as mentioned in the report.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ONAC requirements.

APPROVED SIGNATORY :

- [Signature]*
- ☐ MR. PRAJUCKPETCH THONGSOOKCHOTE
- ☒ MR. DAMRONG MULSING
- ☐ MR. JATURAPAT THONGSOOKCHOTE

