

## ภาคผนวก ๗

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เอกสารสอบเทียบเครื่องมือที่ใช้ในการวิเคราะห์





THAI HEART CALIBRATION CO., LTD.  
Thailand's leading calibration laboratory  
Accredited by ANAB (AC-2695) and NIMT (TAK-001)



THAI HEART CALIBRATION CO., LTD.  
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## CERTIFICATE OF CALIBRATION

Certificate No.: C0-1808005/23

Page 1 of total 4 pages

Customer WATER ANALYSIS CENTER CO., LTD.  
1/94 Moo 5, T.Kanham,  
A.U-thai, Ayutthaya 13210

Equipment	pH Meter	Model	SevenCompact S220
Manufacturer	METTLER TOLEDO	ID No.	WWL 0068
Serial No.	B32752721		
Description	Range : 0 - 14 pH, Resolution : 0.01 pH		

### Environmental Conditions

Ambient Temperature: (20 ± 2) °C

Relative Humidity: (50 ± 10) %

Atmospheric Pressure: -

Jayhawks Laboratory (CL&GL)  
Calibration Location  
Received Date 18 August 2023  
Calibration Date 18 August 2023  
Date of Issue 21 August 2023

### Condition of Artifacts

Used conditions but can be calibrated

Checked by   
Approved by   
Act as Technical Manager  
Representative of Managing Director  
( Dr. Ekachai Putifwong )

- ( Krisyos I.K. ) ( Sakda Y. )
- ( Patiphan K. ) ( Onnappa P. )
- ( Pongsak H. ) ( Nitiphong K. )
- ( Kanung C. ) ( Nonnachai K. )
- ( Prampong P. ) ( Noppol P. )

### Measurement Results:

#### 1. Function Simulated pH Meter

Standard Applied	Nominal Value ( mV )	UUC Reading ( pH )	UUC Reading ( mV )	Uncertainty ( ± mV )
Calibrator	177.48	4.00	177.4	0.060
Digital Thermometer with Sensor	0.00	7.00	0.0	0.060
	-177.48	10.00	10.01	0.060

UUC : Unit Under Calibration

Note : Adjust Curve to simulate pH (4,7,10)

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FE-169

REV.02 02/24/21

Kittipong  
REV.02 02/24/21

Kittipong  
REV.02 02/24/21



Certificate No.: C0-1808005/23

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## Measurement Results (Cont.):

## 2. Calibration of pH Electrode (Serial No.: 3222623)

pH Standard Solution (pH)	Measured Value (pH)	Measured Value (mV)	Uncertainty (± pH) 0.013
4.01	4.01	180.0	0.013
7.01	7.00	4.0	0.013
10.01	10.01	-172.0	0.013

Note : Adjust Curve to Buffer Solution pH (4,7,10)

Temperature stability of micro bath : 25 ± 0.2°C

The above reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor  $k = 2.00$ , providing a level of confidence approximately 95%.

Certificate No.: C0-1808005/23

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Reference Method:  
 - The calibration method used was CP-096 based on an in-house method.  
 - The temperature scale used was an ITS-90.  
 - This certificate can be traceable to the national standards, which is realized the shown measurement units according to the International System of Units (SI Units).

## Reference Standard Instruments:

Type	Model	Serial No.	Cert. No.	Due Date	Traceability
Thermometer Readout	1529-R	B74853	10-0911001/22	Nov. 9, 2023	THC
Platinum Resistance Thermometer	5626	4854	C0A30047	Oct. 22, 2023	FLUKE
Liquid Bath	XORTS-40A	XO111019	10-2405001/23	May 25, 2025	THC

Remark: This certificate is traceable to the International System of Unit (SI Unit) through:

- THC, Thai Heart Calibration Co., Ltd.
- FLUKE, Fluke Corporation, U.S.A.

## Measurement Results:

( X ) Without Adjustment

Dimension of probe : Diameter 4 mm.

Sensor Type : RTD (PT100)

Immersion Depth (mm.)	Standard Reading (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
120	22.00	22.2	-0.20	0.065
120	25.00	25.2	-0.20	0.065
120	28.00	28.2	-0.20	0.065

UUC : Unit Under Calibration

The above reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor  $k = 2.00$ , providing a level of confidence approximately 95%.

- End of Certificate -

Calibrated by Kittipong  
REV.02 02/24/21

FE-169  
REV.02 02/24/21

Calibrated by Pongsak  
REV.02 02/24/21

FE-169  
REV.02 02/24/21

## Certificate of Calibration



TEMPERATURE  
CONTROLLER ENCLOSURES

Certificate No.: MC 2307702

Customer : Water Analysis Center Co., Ltd.  
1/94 Moo 5, T.Kantham, A.U-Thai, Ayutthaya 13210.

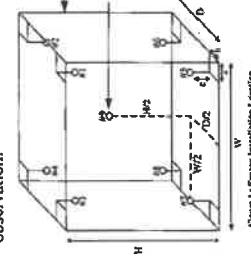
Page 1 of 3  
Approved  
Date: 12/07/2023

Reference Job No.	: 23-1577	Received Date	: 11 July 2023
Description	: Refrigerator		
Manufacturer	: SANDEN INTERCOOL	Model	: SEC-1500SBD
Serial No.	: SEC15002021A-0708-00304	ID. No.	: WVL0038
Marking	: Additionally for the purpose of identification by this laboratory a label marked with this certificate number (MC 2307702) has been attached to the case.		
Method	: In-House calibration procedure MWI-T-033 this method is reference to TLAS G-20 "Temperature Controlled Enclosures".		
Location of Calibration	: Water Analysis Center Co., Ltd.; Laboratory.		
Environmental Conditions	: Ambient Temperature : (25.3 to 25.9) °C Relative Humidity : (65.2 to 67.9) %		
Date of Calibration	: 11 July 2023	Date of Issue	: 12 July 2023
Checked by :	<u>Thanagon Limchaicharoen</u> (Calibration Supervisor)	Approved by :	<u>Attipong Kanjinawasit</u> (Technical Manager)

The uncertainties are for a confidence probability of approximately 95%

This certificate is issued in accordance with the conditions of accreditation granted by the National Standardization Council of Thailand-Office of the National Standardization Council that has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standards laboratory. This certificate may not be reproduced other than in full except with the prior written approval of Master Calibration Co.,Ltd.

Checked by : Thanagon



The measurement standard traceable to the international system of units (SI) through certificate as mentioned above

**The Reference Standard Instrument :**

Description	Certificate No.	Serial No.	Due date	Traceable thru
Data Acquisition/Switch Unit	MC 2303173	NY41010916	9 Mar 2024	MCAL

With Thermocouple Type "T" ID. No.17/1 to 17/9

**Traceability :**  
The measurement standard traceable to the international system of units (SI) through certificate as mentioned above

**1. Calibration Procedure:**

This instrument was calibration according to TLAS G-20 by comparison with calibrated thermocouple type T under no load condition. The Thermocouples were placed on nine points and located one thermocouple in each of the eight corners of the chamber and was away from the each wall of 5 cm to 10 cm. And placed the ninth thermocouple within 2.5 cm of the geometric center of the chamber.

**Temperature 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.

**Temperature Stability** - one-half of the greatest maximum difference of measured temperatures at any one sensor.

**Overall Variation - The Difference of the maximum and minimum measured temperatures throughout observation.**



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Tel. : (02) 274 2978-9, (02) 274 2987-8 Fax. : (02) 274 2518. E-mail: calibrate@mastercalibration.com  
Website : www.mastercalibration.com B-mail: calibrate@mastercalibration.com

Certificate No.: MC 2307702

## 2. Result of calibration :

## Temperature Measurement Accuracy Test

Measured Temperature (°C) at Spread Locations							Uncertainty (±°C)		
Indicating Temperature (°C)	#1	#2	#3	#4	#5	#6	#7	#8	Ref. #9 (±°C)
2.5	4.4	4.2	4.2	4.2	4.0	3.9	4.1	4.0	3.8 0.86

## Chamber Characterization Result

Controller Temperature (°C)	Indicating Temperature (°C)	Temperature Stability (±°C)	Temperature Uniformity (°C)	Overall Variation (°C)
2.0	2.5	1.50	1.01	3.3

The 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 %.

This certificate will certify of the calibrated equipment only.

End of Certificate

## CERTIFICATE OF CALIBRATION

Page 1 of total 2 pages

Certificate No.: C0-1907007/23

Customer                   WATER ANALYSIS CENTER CO., LTD.  
                                1/94 Moo 5, T.Karham,  
                                A.U-thai, Ayutthaya 13210

Equipment                 Conductivity Meter  
Manufacturer              EUTECH  
Serial No.                2657889  
Description               -

Environmental Conditions           Ambient Temperature: (20 ± 2) °C  
  Relative Humidity: (50 ± 10) %  
   Atmospheric Pressure: -

Calibration Location           Jayhawks Laboratory (CL&amp;GL)

Received Date               19 July 2023

Calibration Date           19 July 2023

Date of Issue               20 July 2023

Condition of Artifacts   Used conditions but can be calibrated

  
Approved by

Checked by

Act as Technical Manager

Representative of Managing Director

- ( ) ( Krisyosol K. ) ( ) ( Sakda Y. )  
 ( ) ( Patiphan K. ) (J) ( Onnappa P. )  
 ( ) ( Pongsak H. ) ( ) ( Nitiphong K. )  
 ( ) ( Kanung C. ) ( ) ( Nonthachai K. )  
 ( ) ( Pramong P. ) ( ) ( Noppol P. )  
 ( Dr. Ekachai Purtiwong )

Checked by: 

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Certificate No.: C0-1907007/23

Page 2 of total 2 pages

Dissertations

- The calibration method used was CP-177 based on an in-house method.
  - This certificate can be traceable to the national standards, which is realized the International System of Units (SI Units).

Reference Standard	Material	Batch Value	Lot Number	Due Date	Traceability
Conductivity Standard Solution	.147.8 $\mu\text{S}/\text{cm}$	S220611005	Dec. 6, 2023	May 31, 2024	SCP Science
	1.425 mS/cm	S220812006			

**Remark:** This certificate is traceable to the International System of Unit (SI) Unit through:

SCMP Sciences

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Measurement results. (true serial no.: 1234567890)		Conductivity Standard	Measured Value	Correction	Uncertainty (±)
	Solution				
	147.8 µS/cm		147.5 µS/cm	0.3 µS/cm	2.5 µS/cm
	1.425 mS/cm		1.427 mS/cm	-0.002 mS/cm	0.0051 mS/cm

Note: Adjustment points: 147.84S/cm | 425mS/cm

The above reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor  $k = 2.0$  providing a level of confidence approximately 95%.

- End of Certificate -

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Calibrated by Onnappa REV.02/02/2021



Cert. No. WAC-065  
Page 2 of 2

Serial No. : 780065

### Calibrate Procedure

□ This instrument was ca

This instrument was ca

This instrument was es-

### Condition of this result of

1). Kriterieneinstellung

### Standard

Sodium Sulfite Power

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Kant's Chemical Categories

□ DKK Corporation

## Result Of Calibration

Standard Solutions

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Zero

Span 8.02

DU Electrode No. UEL/AAA(3) S/N 1111023

**Traceability :** This measurement are traceable to the International System of Unit (SI), through National Institute of Metrology Thailand (NIMT) 

A circular logo for InTech Metrology Laboratory. The outer ring contains the text "INTECH METROLOGY LABORATORY" at the top and "INDIA" at the bottom. The inner circle features a stylized "IML" monogram with three horizontal bars extending from the right side.

Calibrated by : Mr.Yutthakorn Jammeansri  
Approved by : Mr.Panuwat Phukulan  
Issue date : Apr 10, 2024

Automation Service Co.,Ltd. 929/2294 Soi Pantipkhan30, Pattanakarn Rd., Suanplang Senechung, Bangkok 10150  
Tel. 02-319-9564 ext. 723-735 | E-mail: [serviceteam@automation.co.th](mailto:serviceteam@automation.co.th) | [www.automation.co.th](http://www.automation.co.th)

This calibration certificate shall not be reproduced other than in full except with the prior written approval of Inotech Metrological Center Co.,Ltd  
FM-MT-013





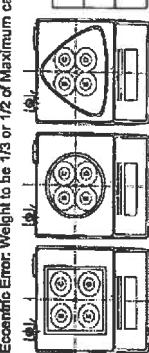
Certificate No.: C01241754

Page: 2 of 2

## Calibration Results:

## Without Adjustment

Eccentric Error: Weight to be 1/3 or 1/2 of Maximum capacity, taken from the center of the pan as a zero reference.



Reference Points (g)		Nominal Test Value (g)				
		A	B	C	D	E
-	0.0000	0.0001	0.0000	-0.0002		

Repeatability: Determination of the standard deviation of weighing balance., Readability		0.0001 (g)				
Nominal Test value (g)	Standard Deviation	0.0001 (g)				
20	0.00004					
200	0.00006					

Nominal Value	Conventional Mass	Displayed Value (g)	Error of Indication (g)	Uncertainty (g)	k
(g)	(g)	(g)	(g)	(g)	
1	1.00001	1.0000	0.0000	0.00011	2.04
2	2.00002	2.0000	0.0000	0.00011	2.04
5	5.00002	5.0000	0.0000	0.00011	2.04
10	10.00001	10.0000	0.0000	0.00011	2.04
20	20.00001	20.0000	0.0000	0.00012	2.03
50	50.00003	50.0000	0.0000	0.00013	2.02
70	70.00004	70.0000	0.0000	0.00016	2.01
100	99.99996	100.00001	0.00001	0.00017	2.01
120	119.99997	120.0002	0.0002	0.00021	2.00
150	149.99999	150.0002	0.0002	0.00024	2.00
200	199.99996	200.00014	0.0004	0.00030	2.00

## The End of Certificate

Checked by : Chalemkrit Rakphada

( Calibration Engineer )

Approved by : Attipong Kamjanasit  
( Technical Manager )

บริษัท ดีเคเอช เทคโนโลยี จำกัด

DISH Technology Limited

233 สามัคคี ถนนสุขุมวิท แขวงคลองเตย เขตคลองเตย กรุงเทพฯ 10120

Phone: +66 8500 7000 Email: mastercalibration@dksh.com Website: www.mastercalibration.com

Delivering Growth - In Asia and Beyond.

The uncertainties are for a confidence probability of approximately 95%

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## Master Calibration Co.,Ltd.

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Tel. : (02) 274 2978-9, (02) 274 2987-8 Fax. : (02) 274 2518, (02) 274 2989

Website : www.mastercalibration.com E-mail : calibrate@mastercalibration.com



MASTER CALIBRATION CO.,LTD.

Tel. : 02-274-2978-9

Website : www.mcalcalibration.com

## Certificate of Calibration



NSC-TB-TIS 17025

CALIBRATION 0183

Page 1 of 3



LIQUID BATH



Certificate No.: MC 2314268



Customer : Water Analysis Center Co., Ltd.

1/94 Moo 5, T.Kanthanam, A.U-Thai, Ayutthaya 13210.

Received Date : 15 December 2023

Reference Job No. : 23-2833

Description : Water Bath

Manufacturer : ESSTELL

Serial No. : 20180508122

Marking : Additionally for the purpose of identification by this laboratory a label marked with this certificate number ( MC 2314268 ) has been attached to the case.

Method : In-House calibration procedure MWI-T-029 this method is reference to ASTM E715 "Liquid Bath".

Location of Calibration : Water Analysis Center Co., Ltd. ; Laboratory.

Environmental Condition : Ambient Temperature : ( 29.4 to 29.8 ) °C

Relative Humidity : ( 49.0 to 52.0 ) %

Date of Calibration : 15 December 2023 Date of Issue : 19 December 2023





## Master Calibration Co.,Ltd.

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Website : www.mastercalibration.com E-mail : callrate@mastercalibration.com

## Certificate of Calibration



NCS-TIS-TS 7025  
CALIBRATION 0193

TEMPERATURE  
CONTROLLER ENCLOSURES

Certificate No.: MC 2314270

Customer : Water Analysis Center Co., Ltd.

1/94 Moo 5, T. Kantham, A.U-Thai, Ayutthaya 13200.

Reference Job.No.	: 23-2833	Received Date	: 15 December 2023
Description	: Incubator	Model	: IN260
Manufacturer	: Memmert	ID. No.	: WWL 0192
Serial No.	: D619.0170		
Marking			: Additionally for the purpose of identification by this laboratory a label marked with this certificate number (MC 2314270 ) has been attached to the case.
Method			: In-House calibration procedure MW-T-033 this method is reference to TLAS-G-20 "Temperature Controlled Enclosures".
Location of Calibration	: Water Analysis Center Co., Ltd. ; Laboratory.		
Environmental Conditions	: Ambient Temperature : ( 25.2 to 25.6 ) °C Relative Humidity : ( 65.4 to 66.2 ) %	Date of Issue	: 19 December 2023
Date of Calibration	: 15 December 2023		

Page 1 of 3



The measurement standard traceable to the international system of units (SI) through certificate as mentioned above

1. Calibration Procedure:

This Instrument was calibration according to TLAS G-20 by comparison with calibrated thermocouple type T under no load condition. The Thermocouples were placed on nine points and located one thermocouple in each of the eight corners of the chamber and was away from the each wall of 5 cm to 10 cm. And placed the ninth thermocouple within 2.5 cm of the geometric center of the chamber.

Temperature 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.

Temperature Stability - one-half of the greatest maximum difference of measured temperatures at any one sensor.

Overall Variation - The Difference of the maximum and minimum measured temperatures throughout observation.

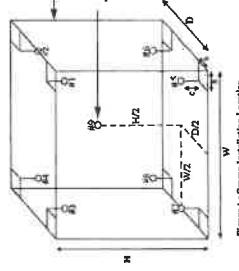


Figure 1 : Sensor Location Location

Approved by : Aittipong Kalijitwasit  
( Technical Manager )

Checked by : Chalermit Ratpheda  
( Calibration Engineer )

The uncertainties are for a confidence probability of approximately 95%

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Checked by : Chalermit



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Website : [www.mastercalibration.com](http://www.mastercalibration.com) E-mail : [calibrate@mastercalibration.com](mailto:calibrate@mastercalibration.com)

Certificate No: MC 2334270

תְּנַשֵּׁאָבָה

Tannin Content Measurement A Comparison Test

Indicating Temperature (°C)	Measured Temperature (°C) at Spread Locations						Uncertainty (± °C)			
	#1	#2	#3	#4	#5	#6				
35.0	35.2	35.2	35.2	35.2	35.1	35.1	35.0	35.1	35.1	0.44

## Chamber Characterization Result

Desired Temperature (°C)	Controller Temperature (°C)	Indicating Temperature (°C)	Temperature Stability (±°C)	Temperature Uniformity (°C)	Overall Variation (°C)
35.0	35.0	35.0	0.13	0.21	0.4

The 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 %.

This certificate will suffice as the collated statement and

End of Content

Customer	Water Analysis Center Co., Ltd. 1/94 Moo 5, T.Kamtham, A.U-Thai, Ayutthay	Reference Job No.	: 23-2833	Received Date	
Description	: Autoclave	Model		ID. No.	
Manufacturer	: TOMY				
Serial No.	: 51135128				
Marking		: Additionally for the purpose of identification with this certificate number ( MC 23114269 )			
Method		: In-House calibration procedure MWL-T-036 th based on BS 2646 : 1993 Part 5 "Autoclave".			
Location of Calibration					
Environmental Condition					
Date of Calibration					

Checked by : Chalermit Rakphada  
Chalermit Rakphada  
( Calibration Engineer )

Approved by : Aittipong Kudjaiwasit  
Aittipong Kudjaiwasit  
( Technical Manager )

The uncertainties are for a confidence probability of approximately 95%

This certificate is issued in accordance with the conditions of accreditation granted by the National Standardization Council of Thailand-Office of the National Standardization Council that has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standards laboratory. This certificate may not be reproduced other than in full except with the prior written approval of Master Calibration Co., Ltd.

MCE0077 : Rev 6 : Date : 23/01/2021

MCF-0-077 : Rev.6 : Date : 22/04/2021



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 Tel : (02) 274 2978-9, (02) 2742987-8 Fax : (02) 274 2518, (02) 274 2989  
 Website : www.mastercalibration.com E-mail : calbase@mastercalibration.com



MASTER CALIBRATION CO., LTD.

Certificate No.: MC 2314269

Page 2 of 3

## Reference Standard Instrument :

Description	Certificate No.	Serial No.	Due date	Traceable thru
Temperature Recorder RTD 100 Ohm	MC 2300163	M79252	9 Jan 2024	MCAL
Temperature Recorder RTD 100 Ohm	MC 2300164	5978194	9 Jan 2024	MCAL
Temperature Recorder RTD 100 Ohm	MC 2300165	M79251	9 Jan 2024	MCAL

## Traceability :

The measurement standard traceable to the international system of units (SI) through certificate as mentioned above

## 1. Calibration Procedure:

The equipment list above was calibrated an accuracy of temperature in a chamber of the sterilizer.

The calibration was performed by direct measurement of generated temperatures using the standard thermometer with three temperature sensors. The data was recorded in a period of fifteen minutes of the sterilizing status. The temperature scale used was based on ITS-90.

The calibration of sterilizer was carried out at the point indicated by following the In-house calibration method

No. MWI-T-036 based on BS 2646 : 1993 : Part 5 in Tests for performance section.

## 2. Result of calibration :

## Temperature Measurement Accuracy Test

Indicating Temperature (°C)	Measured Temperature (°C) at Spread Locations			Uncertainty (±°C)
	#1	#2	#3	
121	121.72	121.73	121.95	0.61

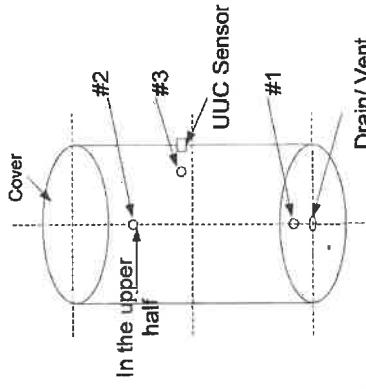
## Characterization Result

Desired Temperature (°C)	Setting Temperature (°C)	Timer Setting (min)	Indicating Temperature (°C)	Indicating Pressure (kPa)	Measured Stability (±°C)	Measured Uniformity (°C)	Overall Variation (°C)
121	121	15.0	121	120	0.60	0.35	1.35

The 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 %.

This certificate will certify of the calibrated equipment only.

End of Certificate



Checked by : Chaleemah

Checked by : Chaleemah



