



K.S.P OCTATECH CO.,LTD.

24/4 SUWANNAWONG RD., HATYAI, SONGKHLA 90110, THAILAND

Tel : (074) 346011-13 Fax : (074) 346014-5

E-mail : iss.kan@gmail.com, www.ksp108.com, E-mail : kspoctatech.hatyai2@gmail.com

Page 1 of 3

Calibration Certificate

Certificate No. 64T142

Equipment : Inclubator
Manufacturer : Accuplus
Serial No. : THL0408-0415-0034
Type : i250-DS
Company : SOUTHERN THAI CONSULTING CO.,LTD.
Address : 59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110
Reference : -
Calibrated by : Miss Fatimah Maetimoh Calibration Date: 17 November 2021

(Signature)

Calibration Approve : Mr.Issara Ongkabin Approve Date: 23 November 2021

(Signature)

Date of Issue : 22 November 2021

This certificate may not be reproduced other in full without written approval of the director of

K.S.P Octatech Company Limited calibration laboratory

The uncertainties are base on estimated confidence probability of approximate

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Page 2 of 3

Calibration method

This Instrument was calibrated by comparison with digital

thermometer temperature indicator selector switch Manufacture : Tutron

Condition of resurt of calibration

1. Reference instrument user: Digital Thermometer with probe type K

No.1 Type: TC-K

*S/N : I.303962

2. This result of test was found accurate as show on date and place

*Room Temperature : 25+/-10°C

*Room Humidity : 55+/-15% RH

3. This calibration is traceable to: Southern Calibration Service Co.,Ltd.

*Cer.No. 21DTH911

Result of calibration

☒ With out Adjustment

☐ After Adjustment

COPY



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Page 3 of 3

Calibrate Point	Equipment Reading	Temperature Standard	Correction
°C	°C	°C	°C
20	20.0	20.18	0.18

The estimate uncertainty of measurement was $\pm 0.1^{\circ}\text{C}$

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

Note: True value = Equipment Reading + Correction

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Page 1 of 3

Calibration Certificate

Certificate No. 64T145

Equipment : Hot Air Oven

Manufacturer : Memmert

Serial No. : C405.0786

Type : UNE400

Company : SOUTHERN THAI CONSULTING CO.,LTD.

Address : 59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110

Reference : -

Calibrated by : Miss Fatimah Maetimoh Calibration Date: 17 November 2021

.....

(Signature)

Calibration Approve : Mr.Issara Ongkabin Approve Date: 23 November 2021

.....

(Signature)

Date of Issue : 22 November 2021

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Calibration method

This Instrument was calibrated by comparison with digital

thermometer temperature indicator selector switch Manufacture : Tutron

Condition of result of calibration

1. Reference instrument user: Digital Thermometer with probe type K

No.1 Type: TC-K

*S/N : I.303962

2. This result of test was found accurate as show on date and place

*Room Temperature : $25 \pm 10^{\circ}\text{C}$

*Room Humidity : $55 \pm 15\% \text{ RH}$

3. This calibration is traceable to: Southern Calibration Service Co.,Ltd.

*Cer.No. 21DTH911

Result of calibration

☒ With out Adjustment

☐ After Adjustment

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Calibrate Point °C	Equipment Reading °C	Temperature Standard °C	Correction °C
104	104	108.9	4.90
150	150.0	154.1	4.10
180	180.0	183.8	3.80

The estimate uncertainty of measurement was $\pm 0.1^{\circ}\text{C}$

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

Note: True value = Equipment Reading + Correction

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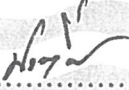
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Calibration Certificate

Cer No.64T140

Equipment : pH meter
Manufacturer : Hach
Serial No. : 151000017107
Type : HQ411D
Company : SOUTHERN THAI CONSULTING CO.,LTD.
Address : 59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110
ID No : -
Reference : -
Calibrated by : Miss Fatimah Maetimoh Calibration Date: 17 November 2021


.....

(Signature)

Calibration Approve : Mr.Issara Ongkabin Approve Date: 23 November 2021


.....

(Signature)

Date of Issue : 22 November 2021

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Page 2 of 3

Equipment : electrode
Model : PHC101
Serial : 190162567971
ID No. : -
Calibration date : 17 November 2021
Calibration method :

Calibration were conducted using in-house calibration procedure CP-T01 according to comparison method with certified Reference Material Conductivity solution and Digital thermometer

Reference Standard Instrument				
Instrument	Serial No.	Change/Lot	Expire date	Traceability
1. Buffer pH 4.01	51350004	1G193E	12.07.2023	MT
2. Buffer pH 7.00	51350006	1G245A	02.09.2023	MT
3. Buffer pH 10.00	51350010	1G173B	22.06.2023	MT
5. pH Simulator	2013379	-	10.07.2022	*Scal

*Scal = Southern Calibraion Service Co.,Ltd

Condition of this result of calibration

1. This result of calibration was found accurate as shown on date and place of calibration only
2. Calibration were performance under the following ambient condition

Temperature (25±5) °C

Humidity (55±15) %RH

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Page 3 of 3

Input From	
External Source (pH)	Display
1.00	N/A
1.68	N/A
4.01	N/A
7.00	N/A
10.01	N/A
12.45	N/A

Input From	
External Source (mv)	Display
1800	N/A
900	N/A
390	N/A
-390	N/A
-900	N/A
-1800	N/A

Measurement values		
Test value 25°C	Measured value	
Buffer	pH	Error
4.01	3.98	-0.03
7.00	6.98	-0.02
10.00	10.07	0.07

Electrode calibration			
2 point	Temp °c	Slope value(%)	Zero point(mv)
4.01/7.00/10.00	24.8	96.0	-41.2

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Page 1 of 3

Calibration Certificate

Certificate No. 64T146

Equipment : Water Bath

Manufacturer : Memmert

Serial No. : L408.0264

Type : WNB14

Company : SOUTHERN THAI CONSULTING CO.,LTD.

Address : 59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110

Reference : -

Calibrated by : Miss Fatimah Maetimoh Calibration Date: 17 November 2021

.....

(Signature)

Calibration Approve : Mr.Issara Ongkabin Approve Date: 23 November 2021

.....

(Signature)

Date of Issue : 22 November 2021

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Calibration method

This Instrument was calibrated by comparison with digital

thermometer temperature indicator selector switch Manufacture : Tutron

Condition of resurt of calibration

1. Reference instrument user: Digital Thermometer with probe type K

No.1 Type: TC-K

*S/N : I.303962

2. This result of test was found accurate as show on date and place

*Room Temperature : $25 \pm 10^{\circ}\text{C}$

*Room Humidity : $55 \pm 15\% \text{ RH}$

3. This calibration is traceable to: Southern Calibration Service Co.,Ltd.

*Cer.No. 21DTH911

Result of calibration

☒ With out Adjustment

☐ After Adjustment

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Page 3 of 3

Calibrate Point	Equipment Reading	Temperature Standard	Correction
°C	°C	°C	°C
85	85	85.60	0.60

The estimate uncertainty of measurement was $\pm 0.1^{\circ}\text{C}$

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

Note: True value = Equipment Reading + Correction

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Page: 1 of 3

Certificate of Calibration

Certificate No. 64T139

Customer

Company	SOUTHERN THAI CONSULTING CO.,LTD.
Address	59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110
ID No.	-

Balance Scale

Manufacturer	OHAUS	S/N	7124302108
Model	Scout Pro SPs402F	Readability (d)	0.01
Max. capacity	400 g		

Reference weight

Weight set No.	30402717	Class OIML	F1
Certificate No.	21M162		
Date of issue	05 February 2020		
	22 November 2021		
			Technology Promotion Association (Thailand-Japan)

The above mentioned balance/scale is meteorologically tested and the test results reported in this calibration certificate correspond with the manufacturer's specification. ☒ Yes ☐ No

Adjustment of balance scale has been necessary ☒ Yes ☐ No

(In case of "NO" "Before Adjustment" results are equal to "After Adjustment")

Remarks

Calibration date	17 November 2021	Approve date	23 November 2021
Calibrated by	Miss Fatimah Maetimoh	Calibration Approve	Mr. Issara Ongkabin
Signature		Signature	



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Page: 2 of 3

Measuring Result

1. Eccentricity test



Reference weight

100 g

Position

Center

Left front

Left rear

Right rear

Right front

Maximum error

Within manufacturer's

Specification :

Increasing value(g)

99.99

100.00

100.00

99.99

99.99

0.01

After Adjustment

Yes ☒ NO ☐

2. Linearity Test

	Nominal Value	Displayed value(g)	Weight Value(g)	Deviation(g)	Uncertainty(g) k=2
1	1 g	1.00	1.000027	0.0000	0.0032
2	5 g	5.00	5.000051	0.0001	0.0032
3	10 g	10.00	10.000063	0.0001	0.0032
4	20 g	20.00	20.000075	0.0001	0.0032
5	50 g	49.99	50.00006	0.010	0.0032
6	100 g	99.99	100.00017	0.010	0.0032
7	150 g	149.99	150.00023	0.010	0.0032
8	200 g	199.99	200.00034	0.010	0.0032
9	300 g	300.00	300.00051	0.0005	0.0032
10	400 g	400.00	400.0006	0.0006	0.0032

Within manufacturer's

Specification :

After Adjustment

Yes ☒ NO ☐

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Page: 3 of 3

3. Repeatability Test

(After Adjustment only)

Ref. Weight

200 g

No.	Empty	Loaded(g)	Difference(g)
1	0	199.99	-0.01
2	0	199.99	-0.01
3	0	199.99	-0.01
4	0	199.98	-0.02
5	0	199.99	-0.01
6	0	199.99	-0.01
7	0	199.99	-0.01
8	0	199.99	-0.01
9	0	199.99	-0.01
10	0	199.99	-0.01

SD = 0.0032

Within manufacturer's

Specification :

After Adjustment

Yes ☒ NO ☐

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Certificate of Calibration

Certificate No.64T138

Customer

Company SOUTHERN THAI CONSULTING CO.,LTD.

Address 59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110

ID No. -

Balance Scale

Manufacturer Sartorius

Model Practum 224-1S

S/N 0035106544

Max. capacity 220 g

Readability (d) 0.0001 g

Reference weight

Weight set No. 30402717

Class OIML F1

Certificate No. 21M162

Date of issue 5 February 2021

22 November 2021

Technology Promotion
Association (Thailand-Japan)

The above mentioned balance/scale is meteorologically tested and the test results reported in this calibration certificate correspond with the manufacturer's specification. ☒ Yes ☐ No

Adjustment of balance scale has been necessary

☒ Yes ☐ No

(In case of "NO" "Before Adjustment" results are equal to "After Adjustment")

Remarks

Calibration date 17 November 2021

Approve date 23 November 2021

Calibrated by Miss Fatimah Maetimoh

Calibration Approve Mr. Issara Ongkabin

Signature

Signature



K.S.P OCTATECH CO.,LTD.

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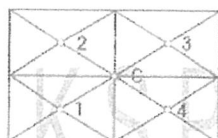
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E-mail : iss.kan@gmail.com, www.ksp108.com, E-mail : kspoctatech.hatyai2@gmail.com

Page: 2 of 3

Measuring Result

1. Eccentricity test



Reference weight

50g

Position

Center

Left front

Left rear

Right rear

Right front

Maximum error

Within manufacturer's

Specification :

Increasing value(g)

50.0001

50.0000

50.0002

50.0001

50.0001

0.0001

After Adjustment

Yes ☒ NO ☐

2. Linearity Test

	Nominal Value	Displayed value(g)	Weight Value(g)	Deviation(g)	Uncertainty k=2(g)
1	1 g	1.0002	1.000027	-0.000173	0.00012
2	2 g	1.9999	2.000040	0.000140	0.00012
3	5 g	5.0002	5.000051	-0.00015	0.00012
4	10 g	9.9999	10.000063	0.00016	0.00012
5	20 g	20.0002	20.000075	-0.000125	0.00012
6	50 g	49.9999	50.000060	0.00016	0.00013
7	70 g	70.0000	70.00014	0.00014	0.00014
8	100 g	99.9996	100.00017	0.00057	0.00014
9	150 g	149.9999	150.00023	0.00033	0.00018
10	200 g	199.9997	200.00034	0.00064	0.00019

Within manufacturer's

Specification :

After Adjustment

Yes ☒ NO ☐



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Page: 3 of 3

3. Repeatability Test

Ref. Weight

(After Adjustment only)

200 g

No.	Empty	Loaded(g)	Difference(g)
1	0	200.0006	0.0006
2	0	200.0002	0.0002
3	0	200.0004	0.0004
4	0	200.0003	0.0003
5	0	200.0004	0.0004
6	0	200.0004	0.0004
7	0	200.0003	0.0003
8	0	200.0002	0.0002
9	0	200.0003	0.0003
10	0	200.0003	0.0003
SD =		0.00012	
Within manufacturer's		After Adjustment	
Specification :		Yes <input checked="" type="checkbox"/> NO <input type="checkbox"/>	

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Page 1 of 3

Calibration Certificate

Certificate No. 64T147

Equipment : Freezer
Manufacturer : NA
Serial No. : NA
Type : NA
Company : SOUTHERN THAI CONSULTING CO.,LTD.
Address : 59/45 Moo 5 T. Srisoontorn, A.Talang, Phuket 83110
Reference : -
Calibrated by : Miss Fatimah Maetimoh Calibration Date: 17 November 2021
(Signature)
Calibration Approve : Mr.Issara Ongkabin Approve Date: 23 November 2021
(Signature)
Date of Issue : 22 November 2021

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Calibration method

This Instrument was calibrated by comparison with digital

thermometer temperature indicator selector switch Manufacture : Tutron

Condition of result of calibration

1. Reference instrument user: Digital Thermometer with probe type K

No.1 Type: TC-K

*S/N : L303962

2. This result of test was found accurate as show on date and place

*Room Temperature : $25 \pm 10^{\circ}\text{C}$

*Room Humidity : $55 \pm 15\% \text{ RH}$

3. This calibration is traceable to: Southern Calibration Service Co.,Ltd.

*Cer.No. 21DTH911

Result of calibration

☒ With out Adjustment

☐ After Adjustment

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Page 3 of 3

Calibrate Point	Equipment Reading	Temperature Standard	Correction
°C	°C	°C	°C
4	4	3.39	-0.61

The estimate uncertainty of measurement was $\pm 0.1^{\circ}\text{C}$

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

Note: True value = Equipment Reading + Correction


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Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkhla 90250 Thailand

Tel: 081 599 0417 Fax: 074 805 133 Email: s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 30-Jul-2021

Certificate No. : 21LTH187

CSR No. : A050/2493

Page. : 1 of 2

Customer : SOUTHERN THAI CONSULTING CO., LTD.
59/45 Moo 5 T. Srisoontorn, A. Talang,
Phuket 83110

Calibration Place : SCaL Laboratory

Instrument Name : Liquid In Glass Thermometer

Manufacturer : SK

Model : (0 to 100) °C

Serial No. : N/A

ID No. : SL4308012/1

Received Date : 24-Jul-2021

Calibrated Date : 27-Jul-2021

Ambient Temperature : (25 ±3) °C

Relative Humidity : (55 ±15) %

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Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.015 by comparison technique with standard thermometer

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- Q Reborn : Quality Reborn Co.,Ltd.

Calibrated by : Ibrorhim Saleemin

Approved by :

Sakeereen Heemhad / Technical Manager

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 Southern Calibration Service Co., Ltd.

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Digital Thermometer With Sensor	1529	B4C223	QR20-1522	15-Sep-2021

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration : (✓) Without Adjustment () After Adjustment

Immersion : ☒ Total ☐ Partial
Type of Liquid : ☐ Alcohol ☒ Mercury

Cal Point (°C)	Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Temperature of emergent colum (°C)	Uncertainty (± °C)
4	4.894	4.00	0.894	N/A	0.31
25	25.921	25.00	0.921	N/A	0.31

* UUC = Unit Under Calibration

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

...End...



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กรรมการบริษัทฯ