

## ภาคผนวก ช

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เอกสารสอบเทียบเครื่องมือตรวจวัด

## Certificate of Calibration

**Certificate No. :** 65-300253-2

**Page : 1 of 2**

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

**Equipment :** Volumetric Flask  
Manufacturer : Witeg Class : A  
Capacity : 50 ml  
ID No. : LB-Gw-007

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300253-2

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
50	50.006

Uncertainty of measurement with in  $\pm$  0.011 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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## Certificate of Calibration

**Certificate No. :** 65-300253-3

**Page :** 1 of 2

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

**Equipment :** Volumetric Flask  
Manufacturer : Witeg Class : A  
Capacity : 100 ml  
ID No. : LB-Gw-008

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	National Institute of Metrology (Thailand) (NIMT)

Approved by :



( Surachai Promthong )

Laboratory Manager

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## Certificate of Calibration

**Certificate No. :** 65-300253-3

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
100	100.016

Uncertainty of measurement with in  $\pm$  0.018 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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## Certificate of Calibration

**Certificate No. :** 65-300253-4

**Page : 1 of 2**

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

**Equipment :** Volumetric Flask  
Manufacturer : FAVORIT Class : A  
Capacity : 200 ml  
ID No. : LB-Gw-025

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241002	64-200354-1	02 Jun 2022	National Institute of Metrology (Thailand) (NIMT)

Approved by :



( Surachai Promthong )

Laboratory Manager

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## Certificate of Calibration

**Certificate No. :** 65-300253-4

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
200	199.98

Uncertainty of measurement with in  $\pm$  0.045 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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## Certificate of Calibration

**Certificate No. :** 65-300253-5

**Page : 1 of 2**

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

**Equipment :** Volumetric Flask  
Manufacturer : Witeg Class : A  
Capacity : 250 ml  
ID No. : LB-Gw-009

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241002	64-200354-1	02 Jun 2022	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. :** 65-300253-5

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
250	250.09

Uncertainty of measurement with in  $\pm$  0.049 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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*M.B.*



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## Certificate of Calibration

**Certificate No. :** 65-300253-6

**Page : 1 of 2**

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

**Equipment :** Volumetric Flask  
Manufacturer : SCHOTT Class : A  
Capacity : 500 ml  
ID No. : LB-Gw-010

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241002	64-200354-1	02 Jun 2022	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. :** 65-300253-6

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
500	500.01

Uncertainty of measurement with in  $\pm$  0.072 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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## Certificate of Calibration

**Certificate No. :** 65-300253-7

**Page : 1 of 2**

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

**Equipment :** Volumetric Flask  
Manufacturer : Witeg Class : A  
Capacity : 1000 ml  
ID No. : LB-Gw-011

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241002	64-200354-1	02 Jun 2022	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. :** 65-300253-7

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
1000	1000.25

Uncertainty of measurement with in  $\pm$  0.14 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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## Certificate of Calibration

**Certificate No. :** 65-300253-8

**Page : 1 of 2**

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

**Equipment :** Volumetric Flask  
Manufacturer : SCHOTT Class : A  
Capacity : 2000 ml  
ID No. : LB-Gw-012

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.6 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

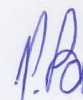
**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241002	64-200354-1	02 Jun 2022	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. :** 65-300253-8

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
2000	2000.01

Uncertainty of measurement with in  $\pm$  0.26 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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## Certificate of Calibration

**Certificate No. :** 64-400532-1

**Page : 1 of 2**

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

**Equipment :** Water Bath  
Manufacturer : Memmert Model : WNB22  
Range : N/A °C Resolution : 0.1 °C  
Serial No. : L520.0201 ID No. : LB-Eq-041

**Environment :** On site calibration was carried out at the Laboratory, Special Lab Envi and Consultant Co., Ltd.  
Ambient Temperature : (29.0 to 31.0) °C  
Relative Humidity : (55 to 60) %  
Line Voltage : (226.0 to 226.5) V

**Date of Received :** 20 October 2021

**Date of Calibration :** 20 October 2021


**Date of Issue :** 20 October 2021

**Calibrated by :** Permpon Chanpu

**Calibration Method :** This instrument was calibrated by In-house method CAL-M4006 based on ASTM E715-80  
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
400029 & 400031	64-400433-1	07 Apr 2022	National Institute of Metrology Thailand (NIMT)

Approved by :   
( Bunjerd Masri )  
Supervisor



## Certificate of Calibration

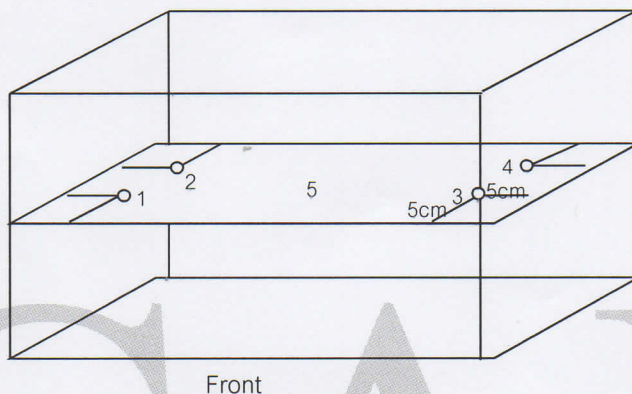
Certificate No. : 64-400532-1

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

Function : Temperature measurement



Test Point ( ° C )	Setting Temperature ( ° C )	Indicating Temperature ( ° C )	Measured Temperature ( ° C ) @ Sensor					Uncertainty ( ± ° C )	Measured Uniformity ( ° C )	Measured Stability ( ° C )
			No.							
			1	2	3	4	5			
62.0	62.0	62.0	61.83	61.81	61.81	61.82	61.83	0.18	0.08	0.04
85.0	85.0	85.0	84.85	84.81	84.84	84.82	84.87	0.18	0.10	0.05
95.0	95.0	95.0	94.86	94.80	94.82	94.80	94.85	0.18	0.10	0.04
100.0	ccc	100.9	100.69	100.74	100.68	100.83	100.69	0.24	0.27	0.14

Remark The uncertainty is not combine uniformity of the water bath

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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## Certificate of Calibration

**Certificate No. :** 64-210396-1

**Page :** 1 of 2

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

**Equipment :** Weight  
Manufacturer : LS Material : Stainless Steel  
Weight size : 1 g  
ID No. : LB-Eq-034  
Assumed density of weight : 7950 kg / m<sup>3</sup>  
Assumed Air density : 1.2 kg / m<sup>3</sup>

**Environment :** Ambient Temperature : ( 20 ± 2 ) °C  
Relative Humidity : ( 50 ± 10 ) %  
Air Pressure : 1007.7 mbar

**Date of Received :** 24 August 2021

**Date of Calibration :** 28 August 2021

**Date of Issue :** 28 August 2021

**Calibrated by :** Wuttichai Swatphong

**Calibration Method :** In-house method CAL-M2101 based on OIML R 111-1 : 2004(E)

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

Standard Weights

ID No.	Cert. No.	Due Date	Traceability
E2413-E2425	MM-0060-19	27 Mar 2022	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. : 64-210396-1

Page : 2 of 2

Result of Calibration : Without Adjustment

UUC Condition As-Received : Good

No.	Nominal Value	Id.Mark	Conventional mass Value	Measuring Uncertainty
1	1 g	none	1 g -0.041 mg	$\pm$ 0.023 mg

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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# CAL



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## Certificate of Calibration

**Certificate No. :** 64-210396-2

**Page : 1 of 2**

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

**Equipment :** Weight  
Manufacturer : LS Material : Stainless Steel  
Weight size : 100 g  
ID No. : LB-Eq-035  
Assumed density of weight : 7950 kg / m<sup>3</sup>  
Assumed Air density : 1.2 kg / m<sup>3</sup>

**Environment :** Ambient Temperature : ( 20 ± 2 ) °C  
Relative Humidity : ( 50 ± 10 ) %  
Air Pressure : 1005.1 mbar

**Date of Received :** 24 August 2021

**Date of Calibration :** 28 August 2021

**Date of Issue :** 28 August 2021

**Calibrated by :** Wuttichai Swatphong

**Calibration Method :** In-house method CAL-M2101 based on OIML R 111-1 : 2004(E)

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

Standard Weights

ID No.	Cert. No.	Due Date	Traceability
E2413-E2425	MM-0060-19	27 Mar 2022	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. :** 64-210396-2

**Page : 2 of 2**

**Result of Calibration :** Without Adjustment

**UUC Condition As-Received :** Good

No.	Nominal Value	Id.Mark	Conventional mass Value	Measuring Uncertainty
1	100 g	none	100 g +0.17 mg	$\pm$ 0.11 mg

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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# CAL

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## Certificate of Calibration

**Certificate No. :** 64-210396-3

**Page : 1 of 2**

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

**Equipment :** Weight  
Manufacturer : LS Material : Stainless Steel  
Weight size : 200 g  
ID No. : LB-Eq-036  
Assumed density of weight : 7950 kg / m<sup>3</sup>  
Assumed Air density : 1.2 kg / m<sup>3</sup>

**Environment :** Ambient Temperature : ( 20 ± 2 ) °C  
Relative Humidity : ( 50 ± 10 ) %  
Air Pressure : 1005.0 mbar

**Date of Received :** 24 August 2021

**Date of Calibration :** 28 August 2021

**Date of Issue :** 28 August 2021

**Calibrated by :** Wuttichai Swatphong

**Calibration Method :** In-house method CAL-M2101 based on OIML R 111-1 : 2004(E)

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

Standard Weights

ID No.	Cert. No.	Due Date	Traceability
E2413-E2425	MM-0060-19	27 Mar 2022	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. :** 64-210396-3

**Page : 2 of 2**

**Result of Calibration :** Without Adjustment

**UUC Condition As-Received :** Good

No.	Nominal Value	Id.Mark	Conventional mass Value		Measuring Uncertainty
1	200 g	none	200 g	-0.20 mg	$\pm$ 0.17 mg

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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# CAL

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

300 Phaholyothin Road, Phayathai, Bangkok 10400, Thailand Tel: +66 2615-2929 Fax: +66 2615-2350-1  
E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-21-517

Page : 1 of 3

## CERTIFICATE OF CALIBRATION

Equipment	:	Spectrophotometer
Manufacturer	:	Merk
Model	:	Prove 100
Serial No.	:	1809112938
ID No.	:	N/A
Customer	:	Special Lab Envi And Consultant Co., Ltd.
	:	47/91 Moo 3, Tambol Tait ,
	:	Amphur Pakrad, Nonthaburi, 11120.
Location	:	Becthai Laboratory
Date of Receipt	:	21 August 2021
Date of Calibration	:	21 August 2021
Date of Issue	:	21 August 2021
Ambient Temperature	:	(25±10) °C
Relative Humidity	:	(60±20) %
Condition As-Received	:	Used Item

Calibrated by

*Kittikorn Boonprapai*

( Mr. Kittikorn Boonprapai )

Calibration Engineer

Approved by

*Jintana Sangthaijaroenlap*

( Ms. Jintana Sangthaijaroenlap )

Calibration Manager

The reported expanded uncertainty of measurement was based on a combined standard uncertainty multiplied by a coverage factor  $k=2.00$ , 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.



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

300 Phaholyothin Road, Phayathai, Bangkok 10400, Thailand Tel: +66 2615-2929 Fax: +66 2615-2350-1  
E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-21-517

Page : 2 of 3

## CALIBRATION REPORT

### Conditions of this result of calibration

#### 1. Reference Standard Material :

<u>Material</u>	<u>Model</u>	<u>Serial No.</u>	<u>Cert.No.</u>	<u>Due date</u>
Holmium Glass Filter	RM-HG	24563	90313	2 Mar 23
Neutral Density Filter	RM-1N2N3N	24568	90324	3 Mar 23

#### 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 the Guide to CPM-CAL-02 based on ASTM E275-08 (2013) and-  
ASTM E925-09 (2014).

#### 4. Result of calibration :

( ☒ ) without adjustment

( ☐ ) after adjustment

#### 5. Equipment Specifications:

Spectral Bandwidth :	4	nm
Data Interval :	0.1	nm
Scan Speed :	N/A	nm/min



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

300 Phaholyothin Road, Phayathai, Bangkok 10400, Thailand Tel: +66 2615-2929 Fax: +66 2615-2350-1  
E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-21-517

Page : 3 of 3

## CALIBRATION REPORT

### Wavelength Calibration

Certified Values of Reference Material (nm)	Nominal Value (nm)	UUC*Reading (nm)	Error (nm)	Uncertainty of Measurement ( $\pm$ nm)
418.48	418.48	418.4	-0.08	0.13
536.90	536.90	534.3	-2.60	0.27
637.94	637.94	636.1	-1.84	0.17

### Photometric Calibration for Visible

Wavelength (nm)	Certified Values of Reference Material (A)	UUC* Reading (A)	Error (A)	Uncertainty of Measurement ( $\pm$ A)
420.0	Zero	0.000	0.0000	0.0028
	0.5824	0.580	-0.0024	0.0044
	0.7266	0.721	-0.0056	0.0041
	1.0377	1.029	-0.0087	0.0040
440.0	Zero	0.000	0.0000	0.0028
	0.5659	0.559	-0.0069	0.0043
	0.7126	0.710	-0.0026	0.0038
	1.0172	1.013	-0.0042	0.0038
465.0	Zero	0.000	0.0000	0.0028
	0.5256	0.522	-0.0036	0.0044
	0.6705	0.673	0.0025	0.0036
	0.9562	0.958	0.0018	0.0035
546.1 (546.0)	Zero	0.000	0.0000	0.0028
	0.5236	0.520	-0.0036	0.0036
	0.6962	0.695	-0.0012	0.0031
	0.9933	0.991	-0.0023	0.0033
590.0	Zero	0.000	0.0000	0.0028
	0.5578	0.557	-0.0008	0.0036
	0.7523	0.752	-0.0003	0.0032
	1.0747	1.072	-0.0027	0.0033
635.0	Zero	0.000	0.0000	0.0028
	0.5655	0.565	-0.0005	0.0036
	0.7321	0.731	-0.0011	0.0032
	1.0454	1.043	-0.0024	0.0031

**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 -



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

300 Phaholyothin Road, Phayathai, Bangkok 10400, Thailand Tel: +66 2615-2929 Fax: +66 2615-2350-1  
E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-22-284

Page : 1 of 3

## 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	:	5 May 2022
Date of Calibration	:	5 May 2022
Date of Issue	:	5 May 2022
Ambient Temperature	:	(25±10) °C
Relative Humidity	:	(60±20) %
Condition As-Received	:	Used Item

Calibrated by

( Mr.Somphop Duangnguan)

Calibration Engineer

Approved by

( Ms. Jintana Sangthaijaroenlap )

Calibration Manager

The reported expended uncertainty of measurement was based on a combined standard uncertainty multiplied by a coverage factor  $k=2.00$ , 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.



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

300 Phaholyothin Road, Phayathai, Bangkok 10400, Thailand Tel: +66 2615-2929 Fax: +66 2615-2350-1  
E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-22-284

Page : 2 of 3

## CALIBRATION REPORT

### Conditions of this result of calibration

#### 1. Reference Standard Material :

<u>Material</u>	<u>Model</u>	<u>Serial No.</u>	<u>Cert.No.</u>	<u>Due date</u>
Holmium Glass Filter	RM-HG	24563	90313	2 Mar 23
Didymium Glass Filter	RM-DG	24562	90311	2 Mar 23
Neutral Density Filter	RM-1N2N3N	24568	90324	3 Mar 23

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 the Guide to CPM-CAL-02 based on ASTM E275-08 (2013) 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



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

300 Phaholyothin Road, Phayathai, Bangkok 10400, Thailand Tel: +66 2615-2929 Fax: +66 2615-2350-1  
E-mail: bkk@becthai.com Website: www.becthai.com



Certificate No. : CAL-22-284

Page : 3 of 3

## CALIBRATION REPORT

### Wavelength Calibration

Certified Values of Reference Material (nm)	Nominal Value (nm)	UUC*Reading (nm)	Error (nm)	Uncertainty of Measurement ( $\pm$ nm)
418.40	418	419	0.60	0.59
537.00	537	537	0.00	0.59
638.00	638	638	0.00	0.59

### Photometric Calibration for Visible

Wavelength (nm)	Certified Values of Reference Material (A)	UUC* Reading (A)	Error (A)	Uncertainty of Measurement ( $\pm$ A)
420.0	Zero	0.000	0.0000	0.0028
	0.5824	0.583	0.0006	0.0044
	0.7266	0.726	-0.0006	0.0040
	1.0377	1.036	-0.0017	0.0040
440.0	Zero	0.000	0.0000	0.0028
	0.5659	0.566	0.0001	0.0042
	0.7126	0.710	-0.0026	0.0037
	1.0172	1.014	-0.0032	0.0037
465.0	Zero	0.000	0.0000	0.0028
	0.5256	0.527	0.0014	0.0044
	0.6705	0.670	-0.0005	0.0035
	0.9562	0.956	-0.0002	0.0034
546.1 (546.0)	Zero	0.000	0.0000	0.0028
	0.5236	0.524	0.0004	0.0036
	0.6962	0.696	-0.0002	0.0031
	0.9933	0.994	0.0007	0.0032
590.0	Zero	0.000	0.0000	0.0028
	0.5578	0.559	0.0012	0.0036
	0.7523	0.752	-0.0003	0.0031
	1.0747	1.075	0.0003	0.0032
635.0	Zero	0.000	0.0000	0.0028
	0.5655	0.568	0.0025	0.0035
	0.7321	0.734	0.0019	0.0031
	1.0454	1.047	0.0016	0.0031

**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 -

## Certificate of Calibration

**Certificate No. :** 65-410001-1

**Page :** 1 of 2

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

**Equipment :** Digital Thermo-Hygrometer

Manufacturer :	Testo	Model :	608-H1
Range Temperature :	0 °C to 50 °C	Resolution :	0.1 °C
Range Humidity :	10 %R.H. to 95 %R.H.	Resolution :	0.1 %R.H.
Serial No. :	2083236817	ID No. :	LB-Eq-042

**Environment :** Ambient Temperature :  $(23 \pm 2) ^\circ\text{C}$   
Relative Humidity :  $(50 \pm 15) \%$

**Date of Received :** 05 January 2022

**Date of Calibration :** 10 January 2022

**Date of Issue :** 10 January 2022

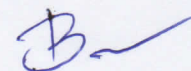
**Calibrated by :** Chortip Samchusri

**Calibration Method :** This instrument was calibrated by In-house method comparison technique CAL-M4013 by compared with standard probe sensor humidity/temperature into humidity/temperature chamber.

**Reference Standard Instruments :** This certification is traceable to the International System of Units  
Digital Indicator with Standard Probe Temp&Hum

ID No.	Cert. No.	Due Date	Traceability
400034 & 400036	SG-H-00003/65	06 Jul 2022	Success Gateway Co., Ltd., Accredited by TISI Calibration No.0268

Approved by :



( Bunjerd Masri )

Supervisor

The Uncertainties are for a confidence probability of approximately 95%

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## Certificate of Calibration

**Certificate No. :** 65-410001-1

**Page : 2 of 2**

**UUC Condition As-Received :** Good

**Result of Calibration :** Without Adjustment

**Function :** Temperature measurement

Reference Humidity @ 50 %R.H.

Standard Temperature ( °C )	UUC Reading ( °C )	Correction ( °C )	Uncertainty ( ± °C )
25.01	25.0	0.0	0.46

**Result of Calibration :** Without Adjustment

**Function :** Humidity measurement

Reference Temperature @ 25 °C

Standard Humidity ( %R.H. )	UUC Reading ( %R.H. )	Correction ( %R.H. )	Uncertainty ( ± %R.H )
50.01	55.1	-5.1	2.2

### Remark

UUC : Unit Under Calibration

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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*B*



## Certificate of Calibration

**Certificate No. :** 65-300254-1

**Page :** 1 of 2

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

**Equipment :** Volumetric Pipette  
Manufacturer : Witeg Class : A  
Capacity : 0.5 ml  
ID No. : LB-Gw-018

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-1

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 6.26 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
0.5	0.4937

Uncertainty of measurement with in  $\pm$  0.0026 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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## Certificate of Calibration

**Certificate No. :** 65-300254-2

**Page :** 1 of 2

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

**Equipment :** Volumetric Pipette  
Manufacturer : PYREX Class : A  
Capacity : 1 ml  
ID No. : LB-Gw-019

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-2

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 17.13 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
1	1.0036

Uncertainty of measurement with in  $\pm$  0.0026 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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*Handwritten signature*



## Certificate of Calibration

**Certificate No. :** 65-300254-3

**Page : 1 of 2**

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

**Equipment :** Volumetric Pipette  
Manufacturer : Witeg Class : A  
Capacity : 2 ml  
ID No. : LB-Gw-020

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-3

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 8.13 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
2	1.9977

Uncertainty of measurement with in  $\pm$  0.0026 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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17.10



## Certificate of Calibration

**Certificate No. :** 65-300254-4

**Page :** 1 of 2

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

**Equipment :** Volumetric Pipette  
Manufacturer : BRAND Class : A  
Capacity : 2.5 ml  
ID No. : LB-Gw-021

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-4

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 7.65 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
2.5	2.4984

Uncertainty of measurement with in  $\pm$  0.0026 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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## Certificate of Calibration

**Certificate No. :** 65-300254-5

**Page : 1 of 2**

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

**Equipment :** Volumetric Pipette  
Manufacturer : Witeg Class : A  
Capacity : 5 ml  
ID No. : LB-Gw-022

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-5

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 10.73 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
5	5.0034

Uncertainty of measurement with in  $\pm$  0.0026 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%

- o0o -



## Certificate of Calibration

**Certificate No. :** 65-300254-6

**Page : 1 of 2**

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

**Equipment :** Volumetric Pipette  
Manufacturer : Witeg Class : A  
Capacity : 10 ml  
ID No. : LB-Gw-023

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-6

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 11.77 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
10	9.9947

Uncertainty of measurement with in  $\pm$  0.0038 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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## Certificate of Calibration

**Certificate No. :** 65-300254-7

**Page : 1 of 2**

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

**Equipment :** Volumetric Pipette  
Manufacturer : Witeg Class : A  
Capacity : 25 ml  
ID No. : LB-Gw-024

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1005.2 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300254-7

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Delivery Time : 18.51 sec.

Nominal Volume ( ml )	Measuring Volume ( ml )
25	24.9904

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%

- o0o -

11/21



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## Certificate of Calibration

**Certificate No. :** 65-300253-1

**Page :** 1 of 2

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

**Equipment :** Volumetric Flask  
Manufacturer : PYREX Class : A  
Capacity : 25 ml  
ID No. : LB-Gw-006

**Environment :** Ambient Temperature :  $(23 \pm 2)$  °C  
Relative Humidity :  $(50 \pm 15)$  %  
Air Pressure : 1007.9 mbar.

**Date of Received :** 27 April 2022

**Date of Calibration :** 05 May 2022

**Date of Issue :** 05 May 2022

**Calibrated by :** Areerat Sombun

**Calibration Method :** In-house method CAL-M3001 based on ASTM E 542-01

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

Electronic Balance

ID No.	Cert. No.	Due Date	Traceability
241005	64-200354-4	02 Jun 2022	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. :** 65-300253-1

**Page : 2 of 2**

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

**UUC Condition As-Received :** Good

Nominal Volume ( ml )	Measuring Volume ( ml )
25	25.001

Uncertainty of measurement with in  $\pm$  0.0074 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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*Handwritten signature*



## ภาคผนวก ซ

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หนังสือจดทะเบียนอาคารชุด (อ.ช. ๑๐)



( บ.ช. ๑๐ )

หนังสือสำคัญการจดทะเบียนอาคารชุด

สำนักงานที่ดินจังหวัด กรุงเทพมหานคร

วันที่ 14 เดือน มีนาคม พ.ศ. 2551

หนังสือนี้ออกให้เพื่อแสดงว่า พนักงานเจ้าหน้าที่ได้รับจดทะเบียนอาคารชุดตาม  
พระราชบัญญัติอาคารชุด พ.ศ. ๒๕๒๒ ตามคำขอของ บริษัท นอร์ท สแควร์ รีเอสท์ จำกัด

ทะเบียนเลขที่ 1/2551 เมื่อวันที่ 14 เดือน มีนาคม พ.ศ. 2551

โดยมีรายการดังนี้

๑. ชื่ออาคารชุด " ดี อินฟินิตี้ "

๒. โฉนดที่ดินเลขที่ 4112, 5692, 5693, 5694, 5695, 5696, 5697

ตำบล สลิม (สำหรับ) อำเภอ บางรัก

๓. ก. จำนวนอาคาร..... 1 ..... หลัง

ข. จำนวนห้องชุด..... 123 ..... ห้องชุด

๔. บันทึกรายละเอียดทรัพย์สินส่วนกลางและทรัพย์สินบุคคล ปรากฏตามเอกสารแนบ

(ลงชื่อ) ..... พนักงานเจ้าหน้าที่

(นายวิชา สอนวิชาสอน)  
(เจ้าพนักงานที่ดินกรุงเทพมหานคร)

ตำแหน่ง .....

เอกสารแนบท้าย  
รายการแสดงรายละเอียดเกี่ยวกับทรัพย์สินส่วนกลาง  
ของ  
โครงการอาคารชุด ดิ อินฟินิตี้

1. ตั้งอยู่บนโฉนดที่ดินเลขที่ 4112, 5692, 5693, 5694, 5695, 5696 และ 5697 เลขที่ดิน 38, 41, 40, 37, 43, 42 และ 39 หน้าสำรวจ 746, 748, 1168, 1169, 1170, 1171 และ 1172 ตำบลสีลม อำเภอบางรัก กรุงเทพมหานคร เนื้อที่รวม 1 ไร่ 3 งาน 24 ตารางวา
2. โครงสร้างอาคาร เช่น พื้นคอนกรีตเสริมเหล็ก, เสาคอนกรีตเสริมเหล็ก, ชั้นฐานราก ซึ่งประกอบด้วย เสาเข็มคอนกรีตเสริมเหล็ก, ฐานรากคอนกรีตเสริมเหล็ก, เสาคอนกรีตเสริมเหล็กตามหลักวิศวกรรม
3. สำนักงานนิติบุคคลอาคารชุด ตั้งที่อยู่ 98 ตำบลสีลม อำเภอบางรัก กรุงเทพมหานคร
4. ลิฟท์ มีทั้งหมด 4 เครื่อง ประกอบด้วย 3 เครื่องสำหรับผู้พักอาศัย (พร้อมด้วยระบบเครื่องจักร เครื่องกล อุปกรณ์ประกอบครบสมบูรณ์ ตั้งอยู่ที่ชั้น 34) และอีก 1 เครื่องสำหรับซ่อมบำรุง (พร้อมด้วยระบบเครื่องจักร เครื่องกล อุปกรณ์ประกอบครบสมบูรณ์ ตั้งอยู่ที่ชั้น 35)
5. โถงต้อนรับ, ห้องตู้จดหมาย ตั้งอยู่ที่ชั้นพื้นดิน
6. ห้องออกกำลังกาย, ห้องสมุด, สระว่ายน้ำ, สวนหย่อม ตั้งอยู่ชั้นที่ 6
7. ห้องล็อกเกอร์, ห้องอบเซาน่า
8. ห้องควบคุมระบบอาคารตั้งอยู่ชั้นพื้นดิน
9. ถังเก็บน้ำ จำนวน 1 ถัง ตั้งอยู่ชั้นใต้ดิน และชั้นดาดฟ้า จำนวน 1 ถัง
10. ระบบไฟฟ้าสำรอง พร้อมเครื่องปั่นไฟฟ้าสำรอง
11. ระบบเสาอากาศรวม เสาอากาศรับสัญญาณโทรทัศน์ และระบบป้องกันฟ้าผ่า ตั้งอยู่ชั้นดาดฟ้า
12. ระบบบำบัดน้ำเสีย และระบบสุขาภิบาล ตั้งอยู่ชั้นใต้ดิน
13. ระบบป้องกันอัคคีภัยและระบบดับเพลิงตั้งอยู่บริเวณชั้นพื้นดิน-33 และห้องควบคุมเครื่องจักรกระบบดับเพลิงตั้งอยู่ที่ชั้นใต้ดิน
14. ตู้ชุมสายโทรศัพท์, ระบบรักษาความปลอดภัย, ระบบโทรศัพท์ทวงจรปิด ตั้งอยู่ชั้นพื้นดิน
15. ระบบไฟฟ้า - ระบบประปา ชั้นพื้นดิน - 33
16. หม้อแปลงไฟฟ้า และ ห้อง MBD ตั้งอยู่ชั้นพื้นดิน
17. ตู้ชุมสายโทรศัพท์ ตั้งอยู่ชั้นพื้นดิน
18. พื้นที่ทางเดินภายในและภายนอกอาคาร ราวจับเบี่ยงทางเดินภายในอาคาร, บันไดภายในอาคาร, บันไดหนีไฟ, กำแพง, ลูกกรง, ราวจับเบี่ยงนอกหน้าต่าง, กันสาด
19. ไฟแสงสว่างรอบนอกอาคารและไฟแสงสว่างทางเดินภายในอาคาร ปรากฏอยู่ชั้นพื้นดิน- 33
20. ป้ายชื่ออาคารอยู่บริเวณด้านหน้าอาคาร, ป้ายทาง และป้ายสัญลักษณ์อยู่ภายในอาคาร
21. ที่จอดรถยนต์ ชั้นพื้นดินจำนวน 32 คัน, ชั้น 5 จำนวน 2 คัน และทางวิ่ง, ทางลาด ของส่วนที่จอดรถยนต์ตั้งแต่ชั้นพื้นดิน- ชั้น 5
22. ห้องพักขยะรวม ตั้งอยู่ชั้นพื้นดิน
23. บ่อหน่วยน้ำและทางระบายน้ำโดยรอบ
24. รั้วโครงการ, ป้อมรักษาความปลอดภัย

  
14 ส.ค. 2551



2551

ชื่อโครงการอบรม " ๕ วันพลัส "

ชื่อโครงการอบรม " ๕ วันพลัส "

ปลูกสร้างบนที่ดินโฉนดเลขที่ 4112, 5692, 5693, 5694, 5695, 5696 และ 5697 เลขที่ดิน 38, 41, 40, 37, 43, 42 และ 39

คำบิลลี่ม (สาร) ำกอบำงัก กรุงเทพมหานคร

ลำดับ ที่	ห้องชุด เลขที่	ชั้นที่	กว้าง (ตร.ม.)	ยาว (เมตร)	สูง (เมตร)	เนื้อที่ห้องชุด (ตร.ม.)	เนื้อที่ว่างเปล่า (ตร.ม.)	เนื้อที่ว่างรวม (ตร.ม.)	เนื้อที่ว่างราชการสนับสนุน (ตร.ม.)	เนื้อที่รวม (ตร.ม.)	จำนวนชั้น	ข้อมูล		ราคาขาย (บาท)	อัตราส่วนกรรมสิทธิ์ ในทรัพย์สินกลาง(10,000 ส่วน)	เฉลี่ยหัว (บาท)
												เนื้อที่อาคาร	ส่วนแบ่งอาคาร			
87	98-87	22	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	24, 25	28,380,000.00	126.81	13,694,989
88	98-88	22	10.042	15.100	3.20	98.09	4.98	3.78	-	118.85	1	12	150	14,664,000.00	65.52	7,076,227
89	98-89	22	10.042	15.100	3.20	97.49	4.99	3.78	-	118.26	1	12	132	14,664,000.00	65.52	7,076,227
90	98-90	22	7.660	17.924	3.20	84.47	2.48	3.35	-	102.30	1	12	103	11,645,000.00	52.03	5,619,385
91	98-91	22	8.725	22.183	3.20	119.06	6.27	3.23	-	140.56	1	12	143	17,526,000.00	78.31	8,457,307
92	98-92	23	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	118, 119	26,840,000.00	119.92	12,951,850
93	98-93	23	10.042	15.100	3.20	98.09	4.98	3.78	-	118.85	1	12	157	14,872,000.00	66.45	7,176,599
94	98-94	23	10.042	15.100	3.20	97.49	4.99	3.78	-	118.26	1	12	138	14,872,000.00	66.45	7,176,599
95	98-95	23	7.660	17.924	3.20	84.47	2.48	3.35	-	102.30	1	12	54	12,155,000.00	54.31	5,865,489
96	98-96	23	8.725	22.183	3.20	119.06	6.27	3.23	-	140.56	1	12	98	18,161,000.00	81.15	8,763,731
97	98-97	24	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	83, 84	26,000,000.00	116.17	12,546,501
98	98-98	24	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	116, 117	25,800,000.00	115.28	12,449,990
99	98-99	24	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	112, 113	28,600,000.00	127.79	13,801,152
100	98/100	25	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	110, 111	26,950,000.00	120.42	13,004,931
101	98/101	25	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	18, 19	29,240,000.00	130.65	14,109,988
102	98/102	25	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	10, 11	27,500,000.00	120.42	13,004,931
103	98/103	26	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	34, 35	26,950,000.00	122.87	13,270,337
104	98/104	26	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	65, 66	30,100,000.00	134.49	14,524,988
105	98/105	26	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	67, 68	30,360,000.00	135.65	14,650,453
106	98/106	27	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	47, 48	28,050,000.00	125.33	13,535,744
107	98/107	27	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	122, 123	27,412,500.00	122.48	13,228,114
108	98/108	27	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	71, 72	27,412,500.00	122.48	13,228,114
109	98/109	28	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	26, 27	25,251,750.00	112.83	12,185,427
110	98/110	28	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	106, 107	29,982,000.00	133.96	14,468,046
111	98/111	28	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	114, 115	32,120,000.00	143.52	15,499,754
112	98/112	29	13.157	22.163	3.20	213.03	6.53	6.28	2.46	276.30	4	48	1, 2, 32, 33	29,150,000.00	130.25	14,066,558
113	98/113	29	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	14, 15	32,250,000.00	144.10	15,562,487
114	98/114	29	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	16, 17	33,000,000.00	147.45	15,924,405
115	98/115	30	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	85, 86	33,880,000.00	151.39	16,349,056
116	98/116	30	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	69, 70	24,931,200.00	111.40	12,030,743
117	98/117	30	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	79, 80	33,880,000.00	151.39	16,349,056
118	98/118	31	13.157	22.163	3.20	213.03	6.53	6.28	2.46	252.30	2	24	81, 82	34,760,000.00	155.32	16,773,707
119	98/119	31	15.820	19.581	3.20	205.46	7.86	3.52	-	240.84	2	24	28, 29	29,777,500.00	133.05	14,369,363
120	98/120	31	7.660	17.924	3.20	213.14	6.53	6.21	2.45	252.33	2	24	30, 31	30,470,000.00	136.15	14,703,534
121	98/121	32, 33	12.257	22.163	6.90	351.42	23.68	9.95	11.44	444.49	4	48	36, 37, 38, 39	58,500,000.00	261.39	28,229,628
122	98/122	32, 33	12.257	22.163	6.90	342.49	17.02	4.12	-	399.83	3	36	40, 41, 42	54,378,000.00	242.97	26,240,525
123	98/123	32, 33	12.257	22.163	6.90	351.42	23.68	9.95	11.44	444.49	4	48	43, 44, 45, 46	57,399,000.00	256.47	27,698,331
รวม			1,209.02	2,312.21	404.70	16,409.07	685.41	504.58	76.92	19,655.98	165.00	1,980.00		2,238,074,120.00	10,000.00	1,080,000,000.00

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