



INTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No.: MT17-4077

PAGE : 2 OF 3

CERTIFICATE OF CALIBRATION

ORDER No.: 136017 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE : MAY 29, 2017

DESCRIPTION : BLOCK DIGESTION MANUFACTURER : AIM LAB

MODEL : AIM 600 BLOCK SERIAL No. : 5024A15553 IDENTIFICATION No. : DARC-TEI0062 MADE IN : AUSTRALIA

CALIBRATION METHOD :

- THIS INSTRUMENT WAS CALIBRATED BY COMPARISON WITH LXI DATA ACQUISITION SWITCH UNIT FOLLOWING TO IN-HOUSE METHOD (CP-TEM-39A).

REFERENCE STANDARD :

DESCRIPTION MODEL S/N No. CERTIFICATE No. DUE DATE  
LXI DATA ACQUISITION SWITCH UNIT 34970A MY44003659 MT17-1063 JAN 08, 2018

TRACEABILITY :

- THE MEASUREMENT ARE TRACEABLE TO INTERNATIONAL SYSTEM OF UNIT (SI), THROUGH NATIONAL INSTITUTE OF METROLOGY (THAILAND)

Position



REMARK : UUC\* = UNIT UNDER CALIBRATION

Rev. 01/03/2016

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INC-FH230



INTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No.: MT17-4077

PAGE : 3 OF 3

CERTIFICATE OF CALIBRATION

ORDER No.: 136017 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE : MAY 29, 2017

DESCRIPTION : BLOCK DIGESTION MANUFACTURER : AIM LAB

MODEL : AIM 600 BLOCK SERIAL No. : 5024A15553 IDENTIFICATION No. : DARC-TEI0062 MADE IN : AUSTRALIA

RESULT OF CALIBRATION : WITHOUT ADJUSTMENT

RANGE : 105 °C  
FUNCTION : TEMPERATURE MEASUREMENT  
IMMERSION DEPTH : 50 mm.

POSITION No.	UUC* SETTING (°C)	STANDARD READING (°C)	UUC* CORRECTION (°C)	UNCERTAINTY OF MEASUREMENT (±°C)
1	105	104.060	-0.920	0.17
2	105	104.114	-0.886	0.17
3	105	104.152	-0.848	0.17
4	105	104.395	-0.605	0.17
5	105	104.432	-0.568	0.17
6	105	104.090	-0.910	0.17
7	105	104.210	-0.790	0.17
8	105	104.078	-0.922	0.17
9	105	104.385	-0.615	0.17
10	105	104.194	-0.806	0.17

REMARK : UUC\* = UNIT UNDER CALIBRATION

- END OF CERTIFICATE -

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Rev. 01/03/2016

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# INTECH METROLOGICAL CENTER CO.,LTD.

11/22 Soi Saimai 56/1, Saimai Rd., Kwang Saimai, Khat Saimai, Bangkok 10220

Tel.: (662) 909-8820-2 Fax.: (662) 909-8823

CERTIFICATE No. : MT17-4071

PAGE : 1 OF 4

## Certificate of Calibration

CUSTOMER : D.A. RESEARCH CENTER CO.,LTD.  
 (2) M.2, T.THATUM, A SRIMAHABODHI, PRACHINBURJ 35140

DESCRIPTION : COD REACTOR

MANUFACTURER : HACH

MODEL : DRB 200

SERIAL No : 11100C655

IDENTIFICATION No. : DARC-TE12043

MADE IN : N/A

ENVIRONMENT : (25 +/- 10) °C (ON - SITE)  
 (50 +/- 30) %RH

CALIBRATION LOCATION : WATER LAB

CALIBRATION DATE : MAY 29, 2017

ISSUE DATE : JUN 07, 2017

CALIBRATED BY : IRAPHAN SREBANNASARN

APPROVED BY : (PANIWAT THUKLAN)



### MEASUREMENT UNCERTAINTY :

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR k= 2, WHICH EFFECTIVE DEGREE OF FREEDOM  $\nu_{eff}$  > 100 CORRESPONDS A LEVEL OF CONFIDENCE OF APPROXIMATELY 95 %

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INTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No. : MT17-4071

PAGE : 2 OF 4

### CERTIFICATE OF CALIBRATION

ORDER No. : 138017 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE : MAY 29, 2017

DESCRIPTION : COD REACTOR MANUFACTURER : HACH

MODEL : DRB 200 SERIAL No. : 11100C655 IDENTIFICATION No. : DARC-TE12043 MADE IN : N/A

CALIBRATION METHOD : THIS INSTRUMENT WAS CALIBRATED BY COMPARISON WITH LMI DATA ACQUISITION SWITCH UNIT FOLLOWING TO IN - HOUSE METHOD (CP-TEM-39A).

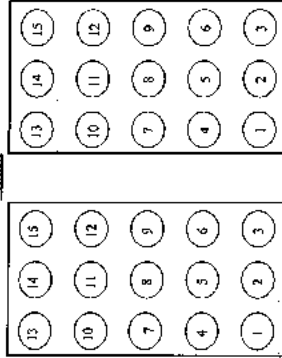
### REFERENCE STANDARD :

DESCRIPTION : LMI DATA ACQUISITION SWITCH UNIT MODEL : 34970A CERTIFICATE No. : MT17-1033 DUE DATE : JAN 08, 2018

### TRACEABILITY :

THE MEASUREMENT ARE TRACEABLE TO INTERNATIONAL SYSTEM OF UNIT (SI), THROUGH NATIONAL INSTITUTE OF METROLOGY (THAILAND)

### Position



BLOCK 1

BLOCK 2

REMARK : DUC = UNIT UNDER CALIBRATION



IINTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No.: MCT17-0971

PAGE : 3 OF 4

CERTIFICATE OF CALIBRATION

ORDER No.: 136017 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE: MAY 29, 2017

DESCRIPTION : COD REACTOR MANUFACTURER : HACH

MODEL : DRB 200 SERIAL No. : 11100C655 IDENTIFICATION No. : DARC-TE12043 MADE IN : N/A

RESULT OF CALIBRATION : WITHOUT ADJUSTMENT

RANGE: 150 °C

FUNCTION: TEMPERATURE MEASUREMENT

IMMERSION DEPT: 50 mm.

POSITION No.	UUC* SETTING (°C)	STANDARD READING (°C)	UUC* CORRECTION (°C)	UNCERTAINTY OF MEASUREMENT (+/-°C)
1	150	15.178	1.178	0.17
2	150	149.740	-0.260	0.17
3	150	15.231	1.231	0.17
4	150	15.638	1.638	0.17
5	150	151.174	2.174	0.17
6	150	150.688	0.688	0.17
7	150	143.440	-4.560	0.17
8	150	144.472	-5.528	0.17
9	150	144.864	-5.136	0.17
10	150	148.926	-1.074	0.17
11	150	147.510	-2.490	0.17
12	150	148.520	-1.480	0.17
13	150	149.331	-0.649	0.17
14	150	148.773	-1.227	0.17
15	150	149.806	-0.194	0.17

REMARK : UUC\* = UNIT UNDER CALIBRATION



IINTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No.: MCT17-0971

PAGE : 4 OF 4

CERTIFICATE OF CALIBRATION

ORDER No.: 136017 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE: MAY 29, 2017

DESCRIPTION : COD REACTOR MANUFACTURER : HACH

MODEL : DRB 200 SERIAL No. : 11100C655 IDENTIFICATION No. : DARC-TE12043 MADE IN : N/A

RESULT OF CALIBRATION : WITHOUT ADJUSTMENT

RANGE: 150 °C

FUNCTION: TEMPERATURE MEASUREMENT

IMMERSION DEPT: 50 mm.

POSITION No.	UUC* SETTING (°C)	STANDARD READING (°C)	UUC* CORRECTION (°C)	UNCERTAINTY OF MEASUREMENT (+/-°C)
1	150	143.092	-4.908	0.17
2	150	143.281	-4.719	0.17
3	150	146.746	-1.254	0.17
4	150	148.440	-1.560	0.17
5	150	148.585	-1.415	0.17
6	150	148.512	-1.488	0.17
7	150	144.734	-5.266	0.17
8	150	144.625	-5.375	0.17
9	150	144.901	-5.099	0.17
10	150	144.177	-5.823	0.17
11	150	144.404	-5.596	0.17
12	150	148.520	-1.480	0.17
13	150	148.551	-1.440	0.17
14	150	148.611	-4.989	0.17
15	150	143.052	-4.948	0.17

REMARK : UUC\* = UNIT UNDER CALIBRATION



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CERTIFICATE No. : MCI17 - 1619

PAGE : 1 OF 2

## Certificate of Calibration

CUSTOMER : D.A.RESEARCH CENTER CO.,LTD.  
 122 M.2, T.THATUMI, A.SRI MAHABODHI, PRACHINBURI 21140

DESCRIPTION : CONDUCTIVITY METER

MANUFACTURER : METTLER TOLEDO

MODEL : SEVEN EASY S30

SERIAL No : 1232025828

IDENTIFICATION No. : DARC - TE1047

MADE IN : N/A

ENVIRONMENT : (25 +/- 10) °C (ON - SITE)  
(50 +/- 30) %RH

CALIBRATION LOCATION : WATER LAB

CALIBRATION DATE : MAY 29, 2017

ISSUE DATE : JUN 05, 2017

CALIBRATED BY : JIRAPHAN SREEBANNASARN

APPROVED BY :

(PAMUWAT PHUKLAN)



MEASUREMENT UNCERTAINTY :  
 THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON STANDARD UNCERTAINTY  
 BY A COVERAGE FACTOR  $k = 2$ , WHICH EFFECTIVE DEGREE OF FREEDOM  $\nu_{eff} > 100$  CORRESPONDS  
 A LEVEL OF CONFIDENCE OF APPROXIMATELY 95 %

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INTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No. : MCI17 - 1619

PAGE : 2 OF 2

CERTIFICATE OF CALIBRATION

ORDER No. : 136017 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE : MAY 29, 2017

DESCRIPTION : CONDUCTIVITY METER MANUFACTURER : METTLER TOLEDO

MODEL : SEVEN EASY S30 SERIAL No. : 1232025828 IDENTIFICATION No. : DARC - TE1047 MADE IN : N/A

CALIBRATION METHOD :

- THIS INSTRUMENT WAS CALIBRATED BY DIRECT WITH STANDARD THERMOMETER AND STANDARD SOLUTION  
 AT 25 °C USING CALIBRATION METHOD (CP-CHE-03A) BASED ON PUBLICATION 620-142 : 2004.

REFERENCE STANDARD :

DESCRIPTION	MODEL	S/N No.	CERTIFICATE No.	DUE DATE
DIGITAL THERMOMETER WITH RTD SENSOR	MI10710/GTF401	10237	MT16-3883	JUL 16, 2017
STANDARD CONDUCTIVITY SOLUTION (84 µS/cm)	MODEL	Lot No.	CERTIFICATE No.	Expiry DATE
STANDARD CONDUCTIVITY SOLUTION (1413 µS/cm)	51302153	N/A	CS84165G1	JUL 28, 2017
STANDARD CONDUCTIVITY SOLUTION (12880 µS/cm)	TRM-S-20-9	130716	CE-0187-16	AUG 24, 2017
	TRM-S-20-8	130716	CE-0188-16	AUG 24, 2017

TRACEABILITY :

- THE MEASUREMENT ARE TRACEABLE TO INTERNATIONAL SYSTEM OF UNIT (SI),  
 THROUGH NATIONAL INSTITUTE OF METROLOGY (THAILAND)

RESULT OF CALIBRATION : BEFORE ADJUSTMENT

RANGE : 84, 1413, 12880 µS/cm RESOLUTION : 0.1 / 1 µS/cm, 0.01 mS/cm

FUNCTION : CONDUCTIVITY MEASUREMENT

STANDARD SOLUTION	READING (µS/cm)	UUC* (µS/cm)	ERROR (µS/cm)	UNCERTAINTY OF MEASUREMENT (+/- µS/cm)
84	100.6	16.6	16.6	0.84
1413	1579	166	166	4.2
(mS/cm)	(mS/cm)	(mS/cm)	(mS/cm)	(+/- µS/cm)
12.88	14.29	1.41	1.41	100

RESULT OF CALIBRATION : AFTER ADJUSTMENT

RANGE : 84, 1413, 12880 µS/cm RESOLUTION : 0.1 / 1 µS/cm, 0.01 mS/cm

FUNCTION : CONDUCTIVITY MEASUREMENT

STANDARD SOLUTION	READING (µS/cm)	UUC* (µS/cm)	ERROR (µS/cm)	UNCERTAINTY OF MEASUREMENT (+/- µS/cm)
84	84.1	0.1	0.1	0.84
1413	1413	0	0	4.2
(mS/cm)	(mS/cm)	(mS/cm)	(mS/cm)	(+/- µS/cm)
12.88	12.8	-0.08	-0.08	100

REMARK : UUC\* = UNIT UNDER CALIBRATION

- END OF CERTIFICATE -

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IMC-FM15



INCITECH METROLOGICAL CENTER CO.,LTD.

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CERTIFICATE No. : MT17-4072

PAGE : 1 OF 2

# Certificate of Calibration

CUSTOMER : D.A RESEARCH CENTER CO.,LTD.  
 122 M2, T.THATUM, A.SUMAHABODHI, PRACHINBURI 25140

DESCRIPTION : COOL ROOM

MANUFACTURER : ELIWELL

MODEL : EWPC 974T

SERIAL No : N/A

IDENTIFICATION No. : WL-04596

MADE IN : N/A

ENVIRONMENT : (25 +/- 10) °C (ON-SITE)  
 (50 +/- 30) %RH

CALIBRATION LOCATION : WATER LAB

CALIBRATION DATE : MAY 29, 2017

ISSUE DATE : JUN 07, 2017

CALIBRATED BY : JIRAPHAN SREEBANNASARN

APPROVED BY : (PANIWAT PRIUKLAN)

### MEASUREMENT UNCERTAINTY :

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON STANDARD UNCERTAINTY BY A COVERAGE FACTOR k = 2, WHICH EFFECTIVE DEGREE OF FREEDOM VRT > 100 CORRESPONDS A LEVEL OF CONFIDENCE OF APPROXIMATELY 95 %

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CERTIFICATE No. : MT17-4072  
PAGE : 2 OF 2

### CERTIFICATE OF CALIBRATION

ORDER No. : 1366/J17 RECEIVED DATE : MAY 29, 2017 CALIBRATION DATE : MAY 29, 2017

DESCRIPTION : COOL ROOM MANUFACTURER : ELIWELL

MODEL : EWPC 974T SERIAL No. : N/A IDENTIFICATION No. : WL-04596 MADE IN : N/A

### CALIBRATION METHOD :

THE INSTRUMENT WAS CALIBRATED BY COMPARISON WITH LXI DATA ACQUISITION AND 20-CHANNEL MULTIPLEXER THE CALIBRATION WAS DONE IN ACCORDANCE WITH CP-TEM-36A (CALIBRATION METHOD) THE TEMPERATURE SCALE WAS BASED ON DKD-AS-7 GUIDELINES FOR CALIBRATION OF CLIMATIC CHAMBER.

### REFERENCE STANDARD :

LXI DATA ACQUISITION SWITCH UNIT MODEL : 34970A SN No. : MY4403639 CERTIFICATE No. : MT17-1053 DUE DATE : JAN 08, 2018

### TRACEABILITY :

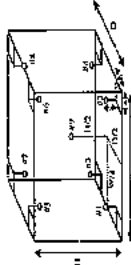
- THE MEASUREMENT ARE TRACEABLE TO INTERNATIONAL SYSTEM OF UNIT (SI), THROUGH NATIONAL INSTITUTE OF METROLOGY (THAILAND)

RESULT OF CALIBRATION : WITHOUT ADJUSTMENT

CALIBRATION POINT : 4 °C RESOLUTION : 0.1 °C

FUNCTION : TEMPERATURE MEASUREMENT

FRONT VIEW



Cal. point	#1	#2	#3	#4	#5	#6	#7	#8	#9	Uncertainty
(°C)	4.631	4.692	4.542	4.730	4.747	4.702	4.691	4.478	4.464	( +/- °C )
4										0.31

Setting	Indicating	Measured	Measured	Overall
Temp (°C)	Temp (°C)	Stability (°C)	Uniform Variation (°C)	Variation (°C)
4.0	4.0	0.11	0.40	0.78

REMARK : UUC\* = UNIT UNDER CALIBRATION

- END OF CERTIFICATE -

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CERTIFICATE No. : MC17 - 1617

PAGE : 1 OF 3

## Certificate of Calibration

CUSTOMER : D.A. RESEARCH CENTER CO.,LTD.  
 122 M2, T. TEATUM, A. SRIMATHABODHI, PRACHINBURI 25140

DESCRIPTION : SPECTROPHOTOMETER

MANUFACTURER : HACH

MODEL : DR2010

SERIAL No. : 10900022941

IDENTIFICATION No. : WL - 002003

MADE IN : N/A

ENVIRONMENT : (25 +/- 10) °C (ON-SITE)  
 (50 +/- 30) % RH.

CALIBRATION LOCATION : WATER LAB IP:

CALIBRATION DATE : MAY 29, 2017

ISSUE DATE : JUN 05, 2017

CALIBRATED BY : YUTTAKORN JAMNEANSRI

APPROVED BY :  (PANSWAT PITULKAN)

### MEASUREMENT UNCERTAINTY :

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR  $k = 2$ , WHICH EFFECTIVE DEGREE OF FREEDOM  $\nu_{eff} > 100$  CORRESPONDS A LEVEL OF CONFIDENCE OF APPROXIMATELY 95%.

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INTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No. : MC17 - 1617

PAGE : 2 OF 3

### CERTIFICATE OF CALIBRATION :

ORDER No. : 136017	RECEIVED DATE : MAY 29, 2017	CALIBRATION DATE : MAY 29, 2017
DESCRIPTION : SPECTROPHOTOMETER	MANUFACTURER : HACH	
MODEL : DR2010	SERIAL No. : 10900022941	IDENTIFICATION No. : WL - 002003
		MADE IN : N/A

### CALIBRATION METHOD :

THIS INSTRUMENT WAS CALIBRATED BY DIRECT MATERIAL FOR WAVELENGTH ACCURACY , PHOTOMETRIC ACCURACY AND STAY LIGHT OF UV AND VISIBLE SPECTROPHOTOMETER USING CALIBRATION METHOD - CP - ELE - 011A BASE ON ASTM : E275-01 & 923-02

### REFERENCE STANDARD :

DESCRIPTION	MODEL	SERIAL No.	CERTIFICATE No.	DUE DATE
STANDARD FOR PHOTOMETRIC	RM - IN21-JN	18944	45715	MAR. 07, 2019

### TRACEABILITY :

-THE MEASUREMENTS ARE TRACEABLE TO INTERNATIONAL SYSTEM OF UNITS (SI)  
 - NATIONAL INSTITUTE OF METROLOGY (THAILAND)



INTECH METROLOGICAL CENTER CO.,LTD.

CERTIFICATE No. : MC17 - 1617  
PAGE : 3 OF 3

CERTIFICATE OF CALIBRATION :

ORDER No. : 136017	RECEIVED DATE : MAY 29, 2017	CALIBRATION DATE : MAY 29, 2017
DESCRIPTION : SPECTROPHOTOMETER		
MODEL : DR2010	SERIAL No. : 10900022941	IDENTIFICATION No. : WL - 009103
	MANUFACTURER : HACH	MADE IN : N/A

RESULT OF CALIBRATION : WITHOUT ADJUSTMENT  
FUNCTION : ABSORBANCE MEASUREMENT  
RESOLUTION : 0.001 Abs

WAVELENGTH (nm)	STANDARD ABSORBANCE	READING	UUC* CORRECTION	UUC* CORRECTION	UNCERTAINTY OF MEASUREMENT(+/-)
440.0	0.0000	0.000	0.0000	0.0000	0.005
	0.5587	0.552	0.0067	0.0067	0.005
	0.7510	0.741	0.0100	0.0100	0.006
	0.9917	0.982	0.0097	0.0097	0.006
465.0	0.0000	0.000	0.0000	0.0000	0.005
	0.5195	0.514	0.0055	0.0055	0.005
	0.6905	0.688	0.0025	0.0025	0.006
	0.9417	0.939	0.0027	0.0027	0.006
546.1	0.0000	0.000	0.0000	0.0000	0.005
	0.5163	0.512	0.0043	0.0043	0.005
	0.6946	0.692	0.0025	0.0025	0.006
	0.9853	0.942	0.0433	0.0433	0.006
590.0	0.0000	0.000	0.0000	0.0000	0.005
	0.5490	0.546	0.0030	0.0030	0.005
	0.7262	0.721	0.0052	0.0052	0.006
	1.0800	1.071	0.0090	0.0090	0.006
655.0	0.0000	0.000	0.0000	0.0000	0.005
	0.5560	0.550	0.0060	0.0060	0.005
	0.6934	0.688	0.0054	0.0054	0.006
	1.0777	1.069	0.0087	0.0087	0.006

UUC\* = UNIT UNDER CALIBRATION

- END OF CERTIFICATE -



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CERTIFICATE No. : MC17 - 1618

PAGE : 1 OF 3

# Certificate of Calibration

CUSTOMER : D.A. RESEARCH CENTER CO.,LTD.  
122 V-2, T.THATUK, A SRIMAHABODHI, PRACHINBURI 25140

DESCRIPTION : SPECTROPHOTOMETER

MANUFACTURER : HACH

MODEL : DR3000

SERIAL No. : 1199185

IDENTIFICATION No. : WL - 010008

MADE IN : N/A

ENVIRONMENT : (25 +/- 10) °C (ON-SITE)

CALIBRATION LOCATION : WATER LAB (PI)

CALIBRATION DATE : MAY 29, 2017

ISSUE DATE : JUN 05, 2017

CALIBRATED BY : YUTAKORN JAMNEANSRI

APPROVED BY : (PANUWAT PHUKLAN)



MEASUREMENT UNCERTAINTY :

THE REPORTED UNCERTAINTY OF MEASUREMENT WAS BASED ON STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR k = 2, WHICH EFFECTIVE DEGREE OF FREEDOM (νeff) > 100 CORRESPONDS A LEVEL OF CONFIDENCE OF APPROXIMATELY 95%.

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