

ภาคผนวก ฉ

เอกสารสอบเทียบเครื่องมือ





ตารางการสอบเทียบเครื่องมือที่ใช้ในการตรวจวัดและวิเคราะห์ (ต่อ)

Item	Description	Parameter	List of Equipment	Equipment No.	Calibration	Next Calibration
1.	Wastewater	pH Color TSS BOD Oil & Grease	pH Meter/Horiba SPECTROPHOTOMETER/Spectroquant Prove 100 Electronic Balance/METTLER TOLEDO BOD Incubator Electronic Balance/METTLER TOLEDO	S/N B06D0012 S/N 1618111041 S/N 1116392227 ID/N TET.LAB.BOD 05 S/N 1116392227	01/11/2023 02/05/2023 11/04/2023 11/04/2022 11/04/2023	Nvember 2024 May 2024 April 2024 April 2024 April 2024



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES & EQUIPMENT CALIBRATION AND TESTING SERVICES
5344 PATTANAKARNY ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL. 0-2717-3000-29 FAX. 0-2719-9484



Cert.No.: 23CHO644
Page: 1 of 2

Certificate of Calibration

Equipment : pH Meter
Manufacturer : Horiba
Model : LAQUA-PH1300
Serial No. : B06D0012
ID No. : Ins-LAB-026
Condition As-Received: Used Item
Received Date : 31 October 2023
Calibration Date : 01 November 2023
Reference : 2310-0843OC-7
Submitted by : Thai Environmental Technic Limited
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung,
Bangkok 10240
Calibration Place : Laboratory (Thai Environment Technic Limited)
Ambient Temperature : (25.4 - 24.2) °C
Relative Humidity : (69.3 - 66.7) %
Calibration Procedure : In - house method :
- CP-OCH2 by direct measurement with standard
voltage calibrator and direct measurement
with certified reference material (CRM)
Calibrated by : Khit Rutanaprapachai
Approved by : [Signature]
(✓) Salthip Meangmai
() Warakorn Lemagatrakul
() Ponpan Paipim
Issue Date : 10 November 2023

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment, Calibration and Testing Services.

A 0060438



Certificate of Calibration

Equipment: SPECTROPHOTOMETER
Model: Spectroquant Prove 100
Serial No. (or ID.): 1618111041
Manufacturer: Merck
Condition: In Condition
Certificate No.: C06230177
Issued Date: 02 May 2023
Job No.: KSPR2306590
Page: 1 of 3

Customer: Thai Environmental Technic Limited
1/6 Soi Ramkhamhaeng 145, Khwaeng Saphan Sug,
Khet Saphan Sung, Bangkok 10240 Thailand

Environment Condition: Temperature 27.7 °C ± 0.3 °C
Humidity 59.5 %RH ± 1.7 %RH

Calibration Place: Thai Environmental Technic Limited (Laboratory)
1/6 Soi Ramkhamhaeng 145, Khwaeng Saphan Sug,
Khet Saphan Sung, Bangkok 10240 Thailand

Calibration By: Mr. Sivapan Srijan
Calibration Date: 02 May 2023
The Method used: In house method, CAL-WI-24, base on ASTM E 275-08 and ASTM E 387-04
Traceability: This certificate is traceable to the CRM maintained by National Institute of Standards and
Technology (NIST) through Stama Scientific Limited.
The standard for Wavelength Certificate No. 105931 and 105898
The standard for Photometric Certificate No. 105940
The standard for Stray light Certificate No. 101040

Person in charge

Authorized signatory

This certificate is issued the units of measurement according to the International System of Units (SI). It provides traceability of measurement to international or
national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to
provide a level of confidence of approximately 95%. It is determined in accordance with the Guide to Expression of Uncertainty in Measurement (GUM).
These results may be affected by deviations from specified conditions. The results relate only to the items tested, calibrated or sampled. The report shall not be
reproduced except in full without approval of DKSH Technology Limited.

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CAL-FM-C06-15: 12 Sep 2022

Certificate No.: C06230177 Page 2 of 3

Calibration Results: Without Adjustment

Wavelength Accuracy (nm), The spectral bandwidth of Std at 4 nm and UUC at 4 nm				
Standard Wavelength	Unit Under Calibration	Correction	Uncertainty	
418.48	418.9	-0.42	0.13	
536.90	536.8	0.10	0.13	
637.94	638.1	-0.16	0.13	
748.28	748.3	-0.02	0.13	
807.16	807.0	0.16	0.13	
Photometric Accuracy (Absorbance)				
Wavelength	Standard absorbance	Unit Under Calibration	Correction	Uncertainty
420 nm	0.0000	0.000	0.0000	0.0045
	0.5890	0.591	-0.0020	0.0045
	0.7604	0.762	-0.0016	0.0045
	1.0241	1.028	-0.0039	0.0045
440 nm	0.0000	0.000	0.0000	0.0045
	0.5782	0.579	-0.0008	0.0045
	0.7430	0.745	-0.0020	0.0045
	1.0016	1.005	-0.0034	0.0045
465 nm	0.0000	0.000	0.0000	0.0045
	0.5283	0.530	-0.0017	0.0045
	0.6854	0.688	-0.0026	0.0045
	0.9509	0.953	-0.0021	0.0045
546.1 nm	0.0000	0.000	0.0000	0.0045
	0.5457	0.545	0.0007	0.0045
	0.6944	0.694	0.0004	0.0045
	0.9965	0.996	0.0005	0.0045
590 nm	0.0000	0.000	0.0000	0.0045
	0.5837	0.582	0.0017	0.0045
	0.7223	0.721	0.0013	0.0045
	1.0935	1.091	0.0025	0.0045
635 nm	0.0000	0.000	0.0000	0.0045
	0.5675	0.565	0.0025	0.0045
	0.6900	0.689	0.0010	0.0045
	1.0862	1.085	0.0012	0.0045

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Cert. No.: 23CHO644
Page: 2 of 2

Condition of this calibration result

1. Reference Standard Instrument :-

Instrument	Serial No.	ID No.	Cert. No.	Due Date
1) Document Process Calibrator	43160066	130RC092	23E1284	10 Apr 2024
2) Digital Thermometer	-	130RC018	23T1595	13 Sep 2024

This certification is traceable to the International System of Unit maintained through-
Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials : The measurement results are traceable to SI through CPA chem Ltd.,
ANSI-AGQ National Accreditation Board, Accredited No. AR-1635

Buffer Solution	Manufacturer	Lot No.	Exp. date
pH 1.679	CPA chem	823319	20 Jun 2024
pH 4.008	CPA chem	931958	01 Oct 2025
pH 6.865	CPA chem	788996	01 Jan 2024
pH 9.181	CPA chem	931960	01 Oct 2024
pH 12.45	Hach Lange GmbH	C02902	19 Nov 2023

3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration Results

Function : mV Measurement

Performing standard curve by Hume at pH (1.7,4,7,10)

Unit Under Calibration	Nominal Value	Standard Voltage	Actual Reading		Uncertainty of Measurement (±mV)	Coverage factor k
			Input mV	pH		
pH Meter S/N.: B06D0012	1.680	314.73	314.7	1.680	0.358	2.00
	4.000	177.48	177.4	4.000	0.358	2.00
	6.860	8.28	8.3	6.860	0.358	2.00
	7.000	0.00	0.0	7.000	0.358	2.00
	9.180	-126.97	-129.0	9.180	0.358	2.00
	10.000	-177.48	-177.4	10.000	0.358	2.00

Function : pH Measurement

Performing four buffers standard curve by using buffer nominal pH (1.7,4,7,9)

Unit Under Calibration	Standard pH Buffer Solution	Actual pH Reading	Actual mV Reading (mV)	Uncertainty of pH measurement (±)	Coverage factor k
pH Electrode S/N.: 9X3D0537	1.679	1.686	296.3	0.0071	2.13
	4.008	3.992	159.1	0.0089	2.25
	6.865	6.845	-10.1	0.015	2.20
	9.181	9.138	-143.9	0.014	2.00
	*12.45	12.427	-335.9	0.056	2.00

Remark: * : Not NSC-ONSC Accredited

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

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A 1188741



Certificate No.: C06230177 Page 3 of 3

Calibration Results:
Without Adjustment

Stray light *	Standard: cut-off	UUC: Wavelength (nm)	UUC: Transmission (%T)	Absorbance (A)
	391.94 +/- 0.11 nm	391.9	1.13	1.947

* Calibration Marked * Not TISI Accredited * in this Certificate have been included for completeness.

The End of Certificate

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CAL-FM-C06-15: 12 Sep 2022



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TEL: 0-2717-3000-29 FAX: 0-2719-9484



Cert.No.: 23MM160
Page.: 1 of 3

Certificate of Calibration

Equipment : Electronic Balance
Manufacturer : Mettler Toledo
Model : AB204
Serial No. : 1116392227
ID No. : TET.LAB.BAL01
Submitted by : Thai Environmental Technic Limited
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung,
Bangkok 10240
Location : Balance Room
Received order : 10 April 2023
Calibration Date : 11 April 2023
Ambient Temperature : 15 °C to 40 °C
Relative Humidity : 30 % to 90 %
Calibrated by : Khit Ruttanaprapachai
Approved by : [Signature]
() Pornthippa Tameyakul
(✓) Malee Butkruea
() Suwili Imjai
Issue Date : 25 April 2023

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.

A 0053464



ใบตรวจสอบสภาพเครื่องวัดสิ่งแวดล้อม

เลขที่ใบงาน: KSPR2306590

ชนิดเครื่องมือ: SPECTROPHOTOMETER รุ่น: Spectroquant Prove 100 หมายเลขเครื่อง: 1618111041

ตรวจสอบ (รับ)		รายการตรวจเช็ค	ตรวจสอบ (ส่ง)		หมายเหตุ
02 May 2023			02 May 2023		
ปกติ	ไม่ปกติ		ปกติ	ไม่ปกติ	
General					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. ความสมบูรณ์เครื่อง	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. ความสะอาด (ช่องใส่ตัวอย่าง, ภายใน-นอกเครื่อง)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. สวิตช์ เปิด - ปิด เครื่อง (On-Off Switch)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. ปุ่มกด (Keypad)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. หน้าจอ (Display, Screen Contrast)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Spectrophotometer					
<input type="checkbox"/>	<input type="checkbox"/>	6. แรงดันไฟฟ้า (Battery Backup) >= 2.5 VDC	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	7. ตัวหมุนเลือกความยาวคลื่น (Wavelength Control)	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. ความยาวคลื่น (Wavelength Check)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	9. แหล่งกำเนิดแสง (UV < 3,000 hour)	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. แหล่งกำเนิดแสง (Visible < 5,000 hour)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	169 Hours
<input type="checkbox"/>	<input type="checkbox"/>	11. ซอฟต์แวร์ตัวอย่าง (Carousel Module)	<input type="checkbox"/>	<input type="checkbox"/>	
pH Meter and Conductivity Meter					
<input type="checkbox"/>	<input type="checkbox"/>	12. อิเล็กโทรด (Electrode and Connection Cable)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	13. ระดับสารละลายใน Electrode (Level KCl)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	14. ฝาปิดกันปลาย Electrode (Dust Protection Hood)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	15. ขาจับอิเล็กโทรด (Stand)	<input type="checkbox"/>	<input type="checkbox"/>	
Turbidimeter					
<input type="checkbox"/>	<input type="checkbox"/>	16. ค่าความขุ่นที่ต่ำสุด (No Sample)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	17. ระดับการส่องสว่างของแสง (>= 2.5 ไม่นเกิน 3.0)	<input type="checkbox"/>	<input type="checkbox"/>	
Automatic titrator					
<input type="checkbox"/>	<input type="checkbox"/>	18. สภาพ Piston Burettes	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	19. Function Rinsing and Dosing	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	20. ระบบท่อสายยางและอุปกรณ์ประกอบ	<input type="checkbox"/>	<input type="checkbox"/>	

เพิ่มเติมข้อแนะนำ :

Service Engineer

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CAL-FM-R31-03: 20 Jul 20



Equipment : Electronic Balance
Condition As-Received : Used Item
Reference : 2304-0146OC-12

Cert.No.: 23MM160
Page: 2 of 3

Procedure used :-

Calibration were conducted using in-house calibration procedure CP-OB01 according to direct measurement method against standard weight.

Condition of this result of calibration

1. Reference standard instruments:-

Instruments	Model	Serial No.	ID No.	Test report No.	Due date
1) Standard Weight Set (E2)	15884	24053	70RC007	MM-0010-22	20 Jan 2024

2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This result of calibration was made on requested at the point specified by customer.
4. This certificate is not certified for any commercial transaction.
5. This certification is traceable to the International System of Unit.

Result of calibration () Without Adjustment (*) After Adjustment by External Calibration

Range capacity : 0 g o 210 g **Resolution** 0.0001 g

Before Adjustment :

Applied Weight	Balance Reading	Correction	Measurement Uncertainty	Coverage Factor
(g)	(g)	(g)	(± mg)	(k)
100	99.9962	+0.0018	0.18	2.00
200	199.9965	+0.0035	0.29	2.00

After Adjustment :

1. Determination of the standard deviation of weighing machine (n = 10)

Applied Weight	Standard Deviation of Reading (g)
(g)	(g)
100	0.00007
200	0.00007

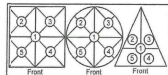
Malee

a 1158499



Equipment : Electronic Balance
Condition As-Received : Used Item
Reference : 2304-0146OC-12
Result of calibration

Cert.No.: 23MM160
Page: 3 of 3



2. Effect of off center loading
A mass of 100 g was placed to various position on the pan.
The weighing machine reading error obtained is given in the table

Position 1 (g)	Position 2 (g)	Position 3 (g)	Position 4 (g)	Position 5 (g)	Maximum difference between off-center and central loading (g)
-0.0002	-0.0002	-0.0003	-0.0003	-0.0002	0.0001

3. Departure from nominal value

Applied Weight (g)	Balance Reading (g)	Correction (g)	Measurement Uncertainty (± mg)	Coverage Factor (k)
Unload	0.0000	0.0000	0.14	2.11
0.01	0.0100	0.0000	0.14	2.11
0.1	0.1001	-0.0001	0.14	2.11
0.5	0.5000	0.0000	0.14	2.11
1	1.0001	-0.0001	0.14	2.11
5	5.0000	0.0000	0.14	2.11
10	9.9999	+0.0001	0.14	2.11
25	24.9998	+0.0002	0.15	2.07
50	45.9998	+0.0002	0.16	2.05
100	95.9999	+0.0001	0.18	2.00
200	200.0000	0.0000	0.29	2.00

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

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Cert. No.: 23TM673
Page : 1 of 3

Certificate of Calibration

Equipment : BOD Incubator
Manufacturer : Accuplus
Model : i250
Serial No.: 0408-0115-0008
ID No.: TET.LAB.BOD05
Submitter by : Thai Environmental Technic Limited
1/6 Soi Ramkhamhaeng 145,
Khwaeng/Khet Saphan Sung,
Bangkok 10240
Location : Laboratory (Thai Environmental Technic Limited)
Received Order : 10 April 2023
Calibration Date : 11 April 2023
Ambient Temperature : $(26 \pm 10) ^\circ\text{C}$
Relative Humidity : $(50 \pm 30) \%$
Calibrated by : Khit Ruttanaprapachai
Approved by :
() Ponnitippa Tameyakul
() Malee Butkruea
() Suwit Imjai

Issue Date : 25 April 2023

The Uncertainties are for a confidence probability of approximately 95%

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A 0053455



Equipment : BOD Incubator
Condition As-Received : Used Item
Reference : 2304-0146OC-2
Procedure Used :-

Cert. No.: 23TM673
Page : 2 of 3

Calibration were conducted using calibration procedure CP-OT02 according to direct measurement
method with Data Acquisition which connected with Resistance Temperature Detector (RTD).
The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

Instrument	Model	Serial No.	Cert. No.	Due Date
1) Data Acquisition	S4972A	MY57013711	22LM93	02 Jul 2023

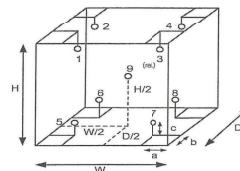
2. This certificate is valid only to the item calibrated on date and place of calibration.
3. This certification is traceable to the International System of Unit.

Result of Calibration :- (*) Without Adjustment

Function of UUC : Temperature Source

Fresh air setting : Not Available

Environment during calibration		
	Beginning	Finished
Temp. (°C)	25	26
REL.Humid. (%)	51	54
AC Supply (Volt)	221	221



Probe Installation Details :

a = 10 cm
b = 10 cm
c = 10 cm

Dimension of Chamber :

D = 0.48 m
W = 0.50 m
H = 1.1 m
Capacity = 0.26 m³

Position :	Ref. Std. ID No.:
1	18-18RTD-01
2	18-18RTD-02
3	18-18RTD-03
4	18-18RTD-04
5	18-18RTD-05
6	18-18RTD-06
7	18-18RTD-07
8	22-18RTD-08
9 (ref.)	18-18RTD-09

a 1158205

Equipment : BOD Incubator
Condition As-Received : Used Item
Reference : 2304-0146OC-2
Result of Calibration :- (*) Without Adjustment
Function of UUC* : Temperature Source
Fresh air setting : Not Available

Cert. No.: 23TM673
 Page : 3 of 3

Calibration Point (°C)	UUC* Setting (°C)	UUC* Reading (°C)	Temperature stability (± °C)	Temperature uniformity (°C)	Overall Variation (°C)	Coverage Factor
20.0	19.8	19.7	0.54	0.37	1.1	2

Calibration Point (°C)	Measured Temperature (°C)									Uncertainty (± °C)
	1	2	3	4	5	6	7	8	9 (ref.)	
20.0	20.121	20.227	19.983	20.098	19.992	19.953	19.938	19.914	20.048	0.72

Average* : The average of 30 values in each position.
Temperature stability : One-half of the greatest maximum difference of measured temperature at any one sensor.
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.
Overall Variation : The Difference of the maximum and minimum measured temperatures throughout observation.
UUC* : Unit Under Calibration
Note : The reported uncertainty of measurement was included stability and excluded uniformity .
 The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

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a 1158204



TET

Thai Environmental Technic Limited
 บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

Analyzer Calibration Report

Calibrate Date : 10-Nov-23
 Analyzer Type : CO
 Brand : Teledyne
 Model : 300E
 Serial Number : 1066 (No.2)
 Range : 100 ppm

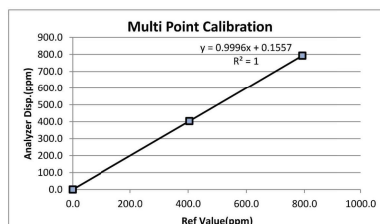
Temperature (°C) : 25 °C
 Barometer (mmHg) : 760
 Humidity (50±15%) : 50.0 %RH
 Dilutor : APT M700 S/N625
 Zero Air : APT M701 S/N1926
 Standard gas : D824500, D271305

Calibration of Span

Supply Gas	Ref Value(ppm)	Before of Span.(ppm)	After of Span.(ppm)	Abs% diff of Span
Zero	0.0	1.2	0.0	0.00
Span	793.0	796	793.0	0.00

Multi Point Calibration

Ref Value(ppm)	Analyzer Disp.(ppm)	Output Difference		
		Diff (ppm)	Percent Diff	Abs Percent Diff
0.0	0.4	0.4	0.00	0.05
404.0	403.5	-0.5	0.00	0.12
793.0	793.1	0.1	0.00	0.01
Average Diff (%)				0.06



Calibrate by: _____

Approved by: _____

แก้ไขครั้งที่ : 00

วันที่อนุมัติ 02/09/15

เลขที่แบบฟอร์ม : QF-QP16-06

Thai Environmental Technic Limited 1/6 Soi Ramkhamhaeng 145 Khwaeng/Khet Saphan-Sung Bangkok 10240 Thailand
 • Tel : +66(0)2373-7799(Auto) Fax : +66(0)2373-7979 • admin@tet1995.com • www.tet1995.com



CERTIFICATE OF ANALYSIS

Customer Detail:
Thai Environmental Technic L.d.

Production Order Number: 90137638
Material Number: 498700-AL-44
Certification Date: 11-Oct-2016
Expiry Date: 11-Oct-2024

Cylinder Description:
ALU 50 L

The measurement of this reference material is traceable to SI through the reference standard which is traceable to Swiss National Standard of Mass. The Assay of this Standard has been performed in accordance with the EPA Traceability Protocol EPA-600/R-12/531 for the Assay and Certification of Gaseous Calibration Standards using procedure G1. The results are expressed on a mole/mole basis, unless otherwise specified. The reported uncertainty is based on a standard uncertainty multiplied by coverage factor k=2, providing a level of confidence of approximately 95%.

Certificate Number:
3112/16

Analyst:
THITIRAT LOYRAT

Cylinder Number:
D271305

Nominal Cylinder Content:
6.900 M³

Nominal Pressure:
145.0 Bar

Valve Outlet:
CCA 660 SS

To Re-Order Please Quote:
498700-AL-44

Comment:
 • It is recommended that this product be not used below 5% of actual contents or should not be used when its gas pressure is below 150psig.
 • Other impurities that detect by analytical condition of this mixture shall be report if it is more than 10% of minimum minor component.
 • Keep and use in well-ventilated and secure area.

Page 1 of 2

บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

15 ถนนพหลโยธิน 2/3 หมู่ 14 แขวง/เขต/กทม. 10150 กรุงเทพฯ
 โทรศัพท์ 02-373-7799 (Auto) โทรสาร 02-373-7979
 โทรสาร 02-373-7979 โทรสาร 02-373-7979 โทรสาร 02-373-7979

Linde (Thailand) Public Company Limited

15 Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trad RM 6.5 Road, Bangkok
 Bangkok, Thailand 10150 Tel: (66) 2373-7799 Fax: (66) 2373-7979
 Wellgrow Plant: 105 Moo 5, 1.Bangpakong, A.Bangpakong, Chachoengsao 24180
 Thailand, Tel: (66) 38.570-479-93 Fax: (66) 38.570-323



CERTIFICATE OF ANALYSIS

Analytical Result

Component	Request Concentration	Certified Concentration	Certified Uncertainty	Method	Assay Date
Carbon Monoxide	800 ppm	793 ppm	± 1 % relative	(6) I-PB-352	04-Oct & 11-Oct-2016
Sulphur Dioxide	800 ppm	804 ppm	± 1 % relative	(6) I-PB-352	04-Oct & 11-Oct-2016
In Nitrogen					

Reference Standard used in Assay

Reference Standard	Cylinder No.	Concentration	Expired Date
Sulphur Dioxide	1104993G	804.6 ± 3.6 ppm	02-Jul-2018
Carbon Monoxide	1138825G	504.3 ± 1.0 ppm	28-Apr-2019
In Nitrogen			

Analytical Instruments used in Assay

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Digi LAB Excalibur HE Series	FTIR-SO2	16-Sep-2016
Digi LAB Excalibur HE Series	FTIR-CO	04-Oct-2016

Method of Analysis:
 1. Gas Chromatography
 2. Paramagnetic Oxygen Analyser
 3. Electrochemical Oxygen Analyser
 4. Electrochemical Moisture Analyser
 5. Total Hydrocarbon Analyser
 6. Other specified

Cylinder Number: D271305
Production Order Number: 90137638

Certification Date: 11-Oct-2016
Expiration Date: 11-Oct-2024

Page 2 of 2

บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

15 ถนนพหลโยธิน 2/3 หมู่ 14 แขวง/เขต/กทม. 10150 กรุงเทพฯ
 โทรศัพท์ 02-373-7799 (Auto) โทรสาร 02-373-7979
 โทรสาร 02-373-7979 โทรสาร 02-373-7979 โทรสาร 02-373-7979

Linde (Thailand) Public Company Limited

15 Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trad RM 6.5 Road, Bangkok
 Bangkok, Thailand 10150 Tel: (66) 2373-7799 Fax: (66) 2373-7979
 Wellgrow Plant: 105 Moo 5, 1.Bangpakong, A.Bangpakong, Chachoengsao 24180
 Thailand, Tel: (66) 38.570-479-93 Fax: (66) 38.570-323

CERTIFICATE OF ANALYSIS

Customer Detail: Thai Environmental Technic Ltd.	Production Order Number: 90137639 Material Number: 48800-AL-44 Certification Date: 11-Oct-2016 Expiry Date: 11-Oct-2024
Cylinder Description: ALU 50 L	
The measurement of this reference material is traceable to SI through the reference standard which is traceable to Swiss National Standard of Mass. The Assay of this Standard has been performed in accordance with the EPA Traceability Protocol EPA-600/R-12/531 for the Assay and Certification of Gaseous Calibration Standards using procedure G1. The results are expressed on a mole/mole basis, unless otherwise specified. The reported uncertainty is based on a standard uncertainty multiplied by coverage factor k=2, providing a level of confidence of approximately 95%.	
Certificate Number: 3111/16	Analyst:  THITIRAT LOYRAT
Cylinder Number: D824500	
Nominal Cylinder Content: 6.900 M³	Approve:  SUKANYA KAMUTHARAT
Nominal Pressure: 145.0 Bar	
Valve Outlet: CGA 640 SS	To Re-Order Please Quote: 490000-AL-44
Comment:	<ul style="list-style-type: none">It is recommended that this product be not used below 5% of actual contents or should not be used when its gas pressure is below 150psig.Other impurities that detect by analytical condition of this mixture shall be report if it is more than 10% of minimum minor component.Keep and use in well-ventilated and secure area.

Page 1 of 2

บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

เลขที่จดทะเบียนการค้า 1013000000

ถ. 15 แขวงจตุจักร อ. 2/3 ร. 14 แขวงจตุจักร เขตจตุจักร กรุงเทพฯ 10130

เบอร์โทร: 0-2-651-1000 โทรสาร: 0-2-651-1001 โทรสาร: 0-2-651-1002 โทรสาร: 0-2-651-1003

โทรสาร: 0-2-651-1004 โทรสาร: 0-2-651-1005 โทรสาร: 0-2-651-1006 โทรสาร: 0-2-651-1007

โทรสาร: 0-2-651-1008 โทรสาร: 0-2-651-1009 โทรสาร: 0-2-651-1010 โทรสาร: 0-2-651-1011

Linde (Thailand) Public Company Limited

เลขที่จดทะเบียนการค้า 1013000000

15 Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trd Km. 6.5 Road, Bangnae

Bangnae, Samutprakan 10540. Tel: (66) 2338-4100 Fax: (66) 2338-4133

Wellgrow Plant: 105 Moo 5, T.Bangmak, A.Bangkokong, Chachoengsao 24180

Thailand, Tel: (66) 38.570-479-93 Fax: (66) 38.570-323

CERTIFICATE OF ANALYSIS

Analytical Result

Component	Request Concentration	Certified Concentration	Certified Uncertainty	Method	Assay Date
Carbon Monoxide	400 ppm	404 ppm	± 1 % relative	(6) I-PB-352	03-Oct & 10-Oct-2016
Sulphur Dioxide	400 ppm	406 ppm	± 1 % relative	(6) I-PB-352	03-Oct & 10-Oct-2016
In Nitrogen					

Reference Standard used in Assay

Reference Standard	Cylinder No.	Concentration	Expired Date
Sulphur Dioxide	D832461	201 ± 1 ppm	12-Apr-2018
Carbon Monoxide	D832461	208 ± 1 ppm	12-Apr-2018
In Nitrogen			

Analytical Instruments used in Assay

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Digi LAB Escalibur HE Series	FTIR-CO	9-Sep & 18-Oct-2016 03-Oct-2016

Method of Analysis
1. Gas Chromatograph
2. Paramagnetic Oxygen Analyser
3. Electrochemical Oxygen Analyser
4. Electrochemical Moisture Analyser
5. Total Hydrocarbon Analyser
6. Other specified

Cylinder Number **D824500**
Production Order Number **90137639**

Certification Date: **11-Oct-2016**
Expiration Date: **11-Oct-2024**

Page 2 of 2

บริษัท ลินด์ (ประเทศไทย) จำกัด (มหาชน)

เลขที่จดทะเบียนการค้า 1013000000

ถ. 15 แขวงจตุจักร อ. 2/3 ร. 14 แขวงจตุจักร เขตจตุจักร กรุงเทพฯ 10130

เบอร์โทร: 0-2-651-1000 โทรสาร: 0-2-651-1001 โทรสาร: 0-2-651-1002 โทรสาร: 0-2-651-1003

โทรสาร: 0-2-651-1004 โทรสาร: 0-2-651-1005 โทรสาร: 0-2-651-1006 โทรสาร: 0-2-651-1007

โทรสาร: 0-2-651-1008 โทรสาร: 0-2-651-1009 โทรสาร: 0-2-651-1010 โทรสาร: 0-2-651-1011

Linde (Thailand) Public Company Limited

เลขที่จดทะเบียนการค้า 1013000000

15 Floor, Bangna Tower A, 2/3 Moo 14, Bangna Trd Km. 6.5 Road, Bangnae

Bangnae, Samutprakan 10540. Tel: (66) 2338-4100 Fax: (66) 2338-4133

Wellgrow Plant: 105 Moo 5, T.Bangmak, A.Bangkokong, Chachoengsao 24180

Thailand, Tel: (66) 38.570-479-93 Fax: (66) 38.570-323

ภาคผนวก ช

หนังสืออนุญาตขึ้นทะเบียนห้องปฏิบัติการวิเคราะห์เอกชน



valent Chromium

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
39	Trivalent Chromium	Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ⁽⁴⁾
40	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾

น้ำดื่ม จำนวน 122 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
2	Acetone	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
3	Aldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
4	Anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
5	Antimony	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
6	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ⁽⁴⁾
7	Atrazine	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
8	Barium	1) Digestion, Direct Nitrous Oxide-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
9	Benz(a)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
10	Benzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
11	Benzo(b)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
12	Benzo(k)fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾

13 Benzoic acid...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
32	Chromium	1) Digestion, Direct Air-Acetylene Flame Method ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾ 3) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
33	Chromium (III)	1) Digestion, Direct Air-Acetylene Flame Method; Colorimetric Method; Calculation ⁽⁴⁾ 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method; Colorimetric Method; Calculation ⁽⁴⁾ 3) Digestion, Inductively Coupled Plasma Method; Colorimetric Method; Calculation ⁽⁴⁾
34	Chromium (VI)	Colorimetric Method ⁽⁴⁾
35	Chrysene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
36	Cyanide	Distillation, Colorimetric Method ⁽⁴⁾
37	2,4-D	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
38	DDD	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
39	DDE	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
40	DDT	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
41	Dibenz(a,h)anthracene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
42	Di-n-butyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
43	1,2-Dichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
44	1,3-Dichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
45	1,4-Dichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
46	1,1-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
47	1,2-Dichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
48	1,1-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
49	cis-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾

50 trans-1,2-Dichloroethylene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
13	Benzoic acid	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
14	Benzo(a)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
15	Benzo(g,h,i)perylene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
16	Beryllium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
17	Bis(2-chloroethyl)ether	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
18	Bis(2-ethylhexyl)phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
19	Bromodichloromethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
20	Bromoform	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
21	Butanol	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
22	Butyl benzyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
23	Cadmium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ⁽⁴⁾ 2) Digestion, Inductively Coupled Plasma Method ⁽⁴⁾
24	Carbazole	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
25	Carbon disulfide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
26	Carbon tetrachloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
27	Chlordane	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
28	p-Chloroaniline	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
29	Chlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
30	Chlorodibromomethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
31	Chloroform	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾

32 Chromium...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
50	trans-1,2-Dichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
51	1,2-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
52	1,3-Dichloropropane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
53	1,3-Dichloropropene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
54	Dieldrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
55	Diethyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
56	2,4-Dimethylphenol	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
57	2,4-Dinitrophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
58	2,4-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
59	2,6-Dinitrotoluene	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
60	Di-n-Octyl phthalate	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
61	Endosulfan	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
62	Endrin	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
63	Ethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
64	Fluoranthene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
65	Fluorene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
66	Heptachlor	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
67	Heptachlor epoxide	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
68	Hexachloro-1,3-butadiene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
69	n-Hexane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾
70	α-HCH	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
71	β-HCH	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
72	γ-HCH	Liquid-Liquid Extraction, Gas Chromatographic Method ⁽⁴⁾
73	Hexachlorocyclopentadiene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ⁽⁴⁾

74 Hexachloroethane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
74	Hexachloroethane	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
75	Indeno(1,2,3-cd)pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
76	Isophorone	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
77	Lead	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^[4] 2) Digestion, Inductively Coupled Plasma Method ^[4]
78	Manganese	1) Digestion, Direct Air-Acetylene Flame Method ^[4] 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^[4] 3) Digestion, Inductively Coupled Plasma Method ^[4]
79	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[4]
80	Methano.	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
81	Methoxychlor	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
82	Methyl bromide	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
83	Methylene chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
84	2-Methylphenol	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
85	2-Methylnaphthalene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
86	Methyl tert-butyl ether	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
87	Naphthalene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
88	Nickel	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^[4] 2) Digestion, Inductively Coupled Plasma Method ^[4]
89	Nitrobenzene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
90	N-Nitrosodiphenylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]

91 N-Nitrosodi-n-propylamine...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
91	N-Nitrosodi-n-propylamine	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
92	Polychlorinated Biphenyls PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1246 PCB-1254 PCB-1260	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
93	Pentachlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
94	pH	Electrometric Method ^[4]
95	Phenanthrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
96	Phenol	1) Distillation, Direct Photometric Method ^[4] 2) Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
97	Pyrene	Liquid-Liquid Extraction, Gas Chromatographic/ Mass Spectrometric Method ^[4]
98	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[4]
99	Silver	1) Digestion, Direct Air-Acetylene Flame Method ^[4] 2) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^[4] 3) Digestion, Inductively Coupled Plasma Method ^[4]
100	Styrene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
101	1,1,2,2-Tetrachloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
102	Tetrachloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
103	Toluene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
104	Toxaphene	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
105	TPH (C ₅ -C ₉)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^[12,22]

106 TPH (C₅-C₁₆)...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
106	TPH (C ₅ -C ₁₆)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^[9,22]
107	TPH (C ₅ -C ₃₃)	Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^[9,22]
108	1,2,4-Trichlorobenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
109	1,1,1-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
110	1,1,2-Trichloroethane	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
111	Trichloroethylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
112	2,4,5-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
113	2,4,6-Trichlorophenol	Liquid-Liquid Extraction, Gas Chromatographic Method ^[4]
114	1,3,5-Trimethylbenzene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
115	Vanadium	1) Digestion, Electrothermal Atomic Absorption Spectrometric Method ^[4] 2) Digestion, Inductively Coupled Plasma Method ^[4]
116	Vinyl acetate	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
117	Vinyl chloride	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
118	m-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
119	o-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
120	p-Xylene	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
121	Xylene (Total)	Purge and Trap Gas Chromatographic/ Mass Spectrometric Method ^[4]
122	Zinc	1) Digestion, Direct Air-Acetylene Flame Method ^[4] 2) Digestion, Inductively Coupled Plasma Method ^[4]

อากาศเสีย...

อากาศเสีย (ปล่องระบาย) จำนวน 18 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Antimony	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[5]
2	Arsenic	Isokinetic Sampling, Digestion, Hydride Generation/ Atomic Absorption Spectrometric Method ^[5]
3	Carbon monoxide	Instrumental Analyzer Method ^[5]
4	Chlorine	Absorption Sampling Ion Chromatographic Method ^[5]
5	Copper	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5]
6	Cresol	Adsorption Sampling, Gas Chromatographic Method ^[5]
7	Dioxins/Furans	Isokinetic Sampling, Analysis by ISO/IEC 17025 Accredited Laboratory or Analysis by Department of Industrial Works Registered Laboratory (Dioxins/Furans Analysis Approved) ^[5]
8	Hydrogen Chloride	Absorption Sampling Ion Chromatographic Method ^[5]
9	Hydrogen Fluoride	Absorption Sampling Ion Chromatographic Method ^[5]
10	Hydrogen Sulfide	Absorption Sampling Iodometric Method ^[5]
11	Lead	1) Isokinetic Sampling, Digestion, Inductively Coupled Plasma Method ^[5] 2) Isokinetic Sampling, Digestion, Direct Air-Acetylene Flame Method ^[5] 3) Isokinetic Sampling, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[5]
12	Mercury	Isokinetic Sampling, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^[5]
13	Opacity	Ringelmann's Method ^[2]
14	Oxides of Nitrogen	1) Absorption Sampling, Phenoldisulfonic acid Method ^[5] 2) Instrumental Analyzer Method ^[5]

15 Sulfur dioxide...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
15	Sulfur dioxide	1) Absorption Sampling, Barium-Thorin Titrimetric Method ^[5] 2) Instrumental Analyzer Method ^[5]
16	Sulfuric acid	Isokinetic Sampling, Barium-Thorin Titrimetric Method ^[5]
17	Total Suspended Particulate	Isokinetic Sampling, Gravimetric Method ^[5]
18	Xylene	Adsorption Sampling, Gas Chromatographic Method ^[5]

สิ่งปลูกสรหรือวัสดุที่ไม่ใช่ตัว จำนวน 36 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Aldrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
2	Antimony	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,13] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,14] 6) Digestion, Inductively Coupled Plasma Method ^[7,14]
3	Arsenic	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[1,6,17] 2) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^[7,17]
4	Barium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14]

4) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
9	Chromium (III)	3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,14] 6) Digestion, Inductively Coupled Plasma Method ^[7,14] 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^[1,6,15,18] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Waste Extraction, Colorimetric Method; Calculation ^[1,6,16,18] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method; Waste Extraction, Colorimetric Method; Calculation ^[1,6,14,18] 4) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^[7,8,15,18] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^[7,8,16,18] 6) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^[7,8,14,18]
10	Chromium (VI)	1) Waste Extraction, Colorimetric Method ^[1,18] 2) Alkaline Digestion, Colorimetric Method ^[8,18]
11	Cobalt	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,14] 6) Digestion, Inductively Coupled Plasma Method ^[7,14]

12 Copper...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
5	Beryllium	4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14] 1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14]
6	Cadmium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14]
7	Chlordane	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
8	Chromium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16]

3) Waste Extraction...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
12	Copper	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^[1,6,15] 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[1,6,16] 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^[1,6,14] 4) Digestion, Flame Atomic Absorption Spectrometric Method ^[7,15] 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^[7,16] 6) Digestion, Inductively Coupled Plasma Method ^[7,14]
13	2,4-D	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^[9,24] 2) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
14	DDD	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
15	DDE	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
16	DDT	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]
17	Dieldrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^[1,10,24] 2) Solid-Phase Extraction, Gas Chromatographic Method ^[10,24] 3) Soxhlet Extraction, Gas Chromatographic Method ^[11,24]

18 Endrin...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
18	Endrin	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1,10,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
19	Heptachlor	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1,10,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
20	Lead	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
21	Lindane	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1,10,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
22	Mercury	1) Waste Extraction, Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ^(1,6,19) 2) Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽²⁰⁾
23	Methoxychlor	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1,10,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24)

3) Soxhlet...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
28	2,2',4,5,5'-Pentachlorobiphenyl 2,2',3,4,4',5'-Hexachlorobiphenyl 2,2',4,4',5,5'-Hexachlorobiphenyl 2,2',3,4,4',5,5'-Heptachlorobiphenyl Pentachlorophenol	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1,9,24) 2) Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
29	Selenium	1) Waste Extraction, Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(1,6,21) 2) Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7,21)
30	Silver	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
31	Thallium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)

32 Toxaphene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
24	Mirex	3) Soxhlet Extraction, Gas Chromatographic Method ^(11,24) 1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1,9,24) 2) Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
25	Molybdenum	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
26	Nickel	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
27	Polychlorinated Biphenyls Aroclor 1216 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 2,4,4'-Trichlorobiphenyl 2,2',5,5'-Tetrachlorobiphenyl	1) Waste Extraction, Separatory Funnel Liquid-Liquid Extraction, Gas Chromatographic Method ^(1,9,25) 2) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1,10,25) 3) Soxhlet Extraction, Gas Chromatographic Method ^(11,25)

2,2',4,5,5'...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
32	Toxaphene	1) Waste Extraction, Solid-Phase Extraction, Gas Chromatographic Method ^(1,10,24) 2) Solid-Phase Extraction, Gas Chromatographic Method ^(10,24) 3) Soxhlet Extraction, Gas Chromatographic/Mass Spectrometric Method ^(11,27)
33	Trichloroethylene	1) Waste Extraction, Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(1,12,26) 2) Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,24)
34	Vanadium	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)
35	Vinyl chloride	Purge and Trap, Gas Chromatographic/Mass Spectrometric Method ^(13,26)
36	Zinc	1) Waste Extraction, Digestion, Flame Atomic Absorption Spectrometric Method ^(1,6,15) 2) Waste Extraction, Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(1,6,16) 3) Waste Extraction, Digestion, Inductively Coupled Plasma Method ^(1,6,14) 4) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 5) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 6) Digestion, Inductively Coupled Plasma Method ^(7,14)

ดิน...

คืน จำนวน 121 รายการ

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
1	Acenaphthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
2	Acetone	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
3	Aldrin	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
4	Anthracene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
5	Antimony	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,14) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
6	Arsenic	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7,17)
7	Atrazine	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
8	Barium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,14) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
9	Benzo(a)anthracene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
10	Benzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
11	Benzo(b)fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
12	Benzo(k)fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
13	Benzoic acid	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
14	Benzo(a)pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
15	Benzo(g,h,i)perylene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
16	Beryllium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15)

2) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
33	Chromium (III)	2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,14) 3) Digestion, Inductively Coupled Plasma Method ^(7,14) 1) Digestion, Flame Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,15,18) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method; Alkaline Digestion, Colorimetric Method. Calculation ^(7,16,18) 3) Digestion, Inductively Coupled Plasma Method; Alkaline Digestion, Colorimetric Method; Calculation ^(7,14,18)
34	Chromium (VI)	Alkaline Digestion, Colorimetric Method ^(8,18)
35	Chrysene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
36	Cyanide	1) Extraction, Distillation, Titrimetric Method ^(28,29,30) 2) Extraction, Distillation, Colorimetric Method ^(28,29,30)
37	2,4-D	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
38	DDD	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
39	DDE	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
40	DDT	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
41	Dibenz(a,h)anthracene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
42	Di-n-butyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
43	1,2-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
44	1,3-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
45	1,4-Dichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
46	1,1-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
47	1,2-Dichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
48	1,1-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)

49 cis-1,2-Dichloroethylene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
17	Bis(2-chloroethyl)ether	2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,14) 3) Digestion, Inductively Coupled Plasma Method ^(7,14) Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
18	Bis(2-ethylhexyl)phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
19	Bromodichloromethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
20	Bromoform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
21	Butanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
22	Butyl benzyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
23	Cadmium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,14) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
24	Carbazole	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
25	Carbon disulfide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
26	Carbon tetrachloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
27	Chlordane	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
28	p-Chloroaniline	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
29	Chlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
30	Chlorodibromomethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
31	Chloroform	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
32	Chromium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15)

2) Digestion...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
49	cis-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
50	trans-1,2-Dichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
51	1,2-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
52	1,3-Dichloropropane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
53	1,3-Dichloropropene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
54	Dieldrin	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
55	Diethyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
56	2,4-Dimethylphenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
57	2,4-Dinitrophenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
58	2,4-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
59	2,6-Dinitrotoluene	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
60	Di-n-Octyl phthalate	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
61	Endosulfan	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
62	Endrin	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
63	Ethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
64	Fluoranthene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
65	Fluorene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
66	Heptachlor	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
67	Heptachlor epoxide	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
68	Hexachloro-1,3-butadiene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
69	n-Hexane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
70	α-HCH	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
71	β-HCH	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
72	γ-HCH	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)

73 Hexachlorocyclopentadiene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
73	Hexachlorocyclopentadiene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
74	Hexachloroethane	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
75	Indeno(1,2,3-cd)pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
76	Isophorone	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
77	Lead	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
78	Manganese	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
79	Mercury	Digestion, Cold-Vapor Atomic Absorption Spectrometric Method ⁽²⁰⁾
80	Methanol	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
81	Methoxychlor	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
82	Methyl bromide	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
83	Methylene chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
84	2-Methylphenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
85	2-Methylnaphthalene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
86	Methyl tert-butyl ether	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
87	Naphthalene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
88	Nickel	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)

89 Nitrobenzene...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
100	1,1,2,2-Tetrachloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
101	Tetrachloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
102	Toluene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
103	Toxaphene	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
104	TPH (C ₅ -C ₉)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
105	TPH (C ₁₀ -C ₁₄)	Soxhlet Extraction, Gas Chromatographic Method ^(11,22)
106	TPH (C ₁₅ -C ₃₃)	Soxhlet Extraction, Gas Chromatographic Method ^(11,22)
107	1,2,4-Trichlorobenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
108	1,1,1-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
109	1,1,2-Trichloroethane	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
110	Trichloroethylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
111	2,4,5-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
112	2,4,6-Trichlorophenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
113	1,3,5-Trimethylbenzene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
114	Vanadium	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
115	Vinyl acetate	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
116	Vinyl chloride	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
117	m-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
118	o-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
119	p-Xylene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)

120 Xylene (Total)

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
89	Nitrobenzene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
90	N-Nitrosodiphenylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
91	N-Nitrosodi-n-propylamine	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
92	Polychlorinated Biphenyls	Soxhlet Extraction, Gas Chromatographic Method ^(11,25)
	Aroclor 1016	
	Aroclor 1221	
	Aroclor 1232	
	Aroclor 1242	
	Aroclor 1248	
	Aroclor 1254	
	Aroclor 1260	
	2,2',5,5'-Tetrachlorobiphenyl	
	2,2',4,5,5'-Pentachlorobiphenyl	
	2,2',3,4,4',5'-Hexachlorobiphenyl	
	2,2',4,4',5,5'-Hexachlorobiphenyl	
	2,2',3,4,4',5,5'-Heptachlorobiphenyl	
93	Pentachlorophenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,24)
94	Phenanthrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
95	Phenol	Soxhlet Extraction, Gas Chromatographic Method ^(11,23)
96	Pyrene	Soxhlet Extraction, Gas Chromatographic/ Mass Spectrometric Method ^(11,27)
97	Selenium	Digestion, Hydride Generation/Atomic Absorption Spectrometric Method ^(7,21)
98	Silver	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)
99	Styrene	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)

100 1,1,2,2-Tetrachloroethane...

ลำดับที่	สารมลพิษ	วิธีวิเคราะห์
120	Xylene (Total)	Purge and Trap, Gas Chromatographic/ Mass Spectrometric Method ^(13,26)
121	Zinc	1) Digestion, Flame Atomic Absorption Spectrometric Method ^(7,15) 2) Digestion, Graphite Furnace Atomic Absorption Spectrometric Method ^(7,16) 3) Digestion, Inductively Coupled Plasma Method ^(7,14)

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