



STANDARDS
MALAYSIA

Certificate of Accreditation

No: SAMM 063

Accredited since: 27 January 1995

This is to certify that

ORGANO (ASIA) SDN. BHD.
SHAH ALAM, SELANGOR
MALAYSIA



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for the current scope of accreditation

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SAMM), the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SAMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).



(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

Date of issue: 19 December 2019

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

ORGANO (ASIA) SDN. BHD.
NO 49, JALAN BAGAN TERAP 26/11
SEKSYEN 26
40400 SHAH ALAM
SELANGOR
MALAYSIA

FIELD OF TESTING: CHEMICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Effluent Waste Sewage Water Industrial Waste	Temperature	APHA 2550-B
	pH	APHA 4500 H ⁺ :B
	COD	APHA 5220-B APHA 5220-C
	Colour	APHA 2120-F
	BOD	APHA 5210-B & 4500-O:G
	Total Suspended Solids	APHA 2540-D
	Chromium, Hexavalent	APHA 3500-Cr:B
	Chromium, Trivalent	Inhouse OA-Cr ⁺³ based on APHA 3500-Cr: B&3120-B
	Mercury	Inhouse OA-Hg (Mercury Analyser)
	Cyanide	APHA 4500-CN:C&F
	Phenol	APHA 5530-B&C
	Phenol	APHA 5530-B&D
	Free Chlorine	APHA 4500-Cl:F
	Sulphide	APHA 4500-S:F
Total Organic Carbon	APHA 5310-B	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Effluent Waste Sewage Water Industrial Waste	Phosphorus	APHA 4500-P:B&C
	Fluoride	APHA 4500-F:C
	Fluoride	APHA 4500-F:B&D
	Kjedahl/Organic nitrogen	APHA 4500-N _{org} :B& 4500-NH ₃ :C
	Ammoniacal nitrogen	APHA 4500-NH ₃ :B&C
Effluent Waste Sewage Waste Industrial Waste City Water Drinking Water River Water Mineral Water	COD	APHA 5220-D

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Effluent Waste Sewage Water Industrial Waste	Aluminum (as Al)	APHA 3120-B
	Arsenic (as As)	APHA 3120-B
	Barium (as Ba)	APHA 3120-B
	Cadmium (as Cd)	APHA 3120-B
	Calcium (as Ca)	APHA 3120-B
	Chromium (as Cr)	APHA 3120-B
	Copper (as Cu)	APHA 3120-B
	Iron (as Fe)	APHA 3120-B
	Lead (as Pb)	APHA 3120-B
	Nickel (as Ni)	APHA 3120-B
	Potassium (as K)	APHA 3120-B
	Magnesium (as Mg)	APHA 3120-B
	Manganese (as Mn)	APHA 3120-B
	Nickel (as Ni)	APHA 3120-B
	Sodium (as Na)	APHA 3120-B
	Tin (as Sn)	OA-Sn in-house Method based on 3120-B
	Zinc (as Zn)	APHA 3120-B
	Boron (as B)	APHA 3120-B
	Formaldehyde	HACH 8110
	Silver (as Ag)	APHA 3120-B
Selenium (as Se)	APHA 3120-B	
Oil & Grease	APHA 5520-D	
Sample pre treatment	<u>Heavy metals</u> Cd, Pb, Cu, Mn, Ni, Zn, Cr, Sn, Al, As, Fe, Ca, Mg, Na, K, B & Ba, Se, Ag	APHA 3030-F (HNO ₃ -HCl Digestion)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
City Water Drinking Water River Water Mineral Water	pH	APHA 4500 H ⁺ :B
	Conductivity	APHA 2510-B
	Turbidity	APHA 2130-B
	Colour	APHA 2120-B
	Total alkalinity	APHA 2320-B
	P-alkalinity	APHA 2320-B
	Total hardness	APHA 2340-B
	Total hardness	APHA 2340-C
	Calcium hardness	APHA 3500-Ca:B
	COD	APHA 5220-C
	Colour	APHA 2120-F
	Magnesium hardness	APHA 3500-Mg:B
	Total solids	APHA 2540-B
	Total dissolved solids	APHA 2540-C
	Total suspended solids	APHA 2540-D
	Anionic detergents	APHA 5540-C
	Mercury	Inhouse OA-Hg (Mercury Analyser)
	Sulphate	APHA 4110-B
	Nitrate	APHA 4110-B
	Chloride	APHA 4110-B
Ortho-phosphate	APHA 4110-B	
Fluoride	APHA 4110-B	
Fluoride	APHA 4500-F:C	
Fluoride	APHA 4500-F:D	
Nitrite	APHA 4110-B	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
City Water Drinking Water River Water Mineral Water (Continued)	Cyanide	APHA 4500-CN:C&F
	Phenol	APHA 5530-B&C
	Silica	APHA 4500-Si:C
	Ammonia	APHA 4500-NH ₃ :B,C**
	Dissolved Oxygen	APHA 4500-O:G
	Total Organic Carbon	APHA 5310-B
	Aluminum (as Al)	APHA 3120-B
	Arsenic (as As)	APHA 3120-B
	Barium (as Ba)	APHA 3120-B
	Cadmium (as Cd)	APHA 3120-B
	Calcium (as Ca)	APHA 3120-B
	Chromium (as Cr)	APHA 3120-B
	Copper (as Cu)	APHA 3120-B
	Iron (as Fe)	APHA 3120-B
	Lead (as Pb)	APHA 3120-B
	Magnesium (as Mg)	APHA 3120-B
	Manganese (as Mn)	APHA 3120-B
	Nickel (as Ni)	APHA 3120-B
	Potassium (as K)	APHA 3120-B
	Sodium (as Na)	APHA 3120-B
Tin (as Sn)	OA-Sn in-house Method based on 3120-B	
Zinc (as Zn)	APHA 3120-B	
Boron (as B)	APHA 3120-B	
Formaldehyde	HACH 8110	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
City Water Drinking Water River Water Mineral Water (Continued)	Silver (as Ag)	APHA 3120-B
	Selenium (as Se)	APHA 3120-B
Sample Pre treatment	<u>Heavy metals</u> Cd, Pb, Cu, Mn, Ni, Zn, Cr, Sn, Al, As, Fe, Ca, Mg, Na, K, B, Ba	APHA 3030-F (HNO ₃ -HCl Digestion)
Pure Water DI Water	pH	APHA 4500-H ⁺ :B
	Conductivity	APHA 2510-B
	Turbidity	APHA 2130-B
	Sulphate	APHA 4110-B
	Nitrate	APHA 4110-B
	Chloride	APHA 4110-B
	Ortho-phosphate	APHA 4110-B
	Nitrite	APHA 4110-B

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pure Water DI Water (Continued)	Total Organic Carbon	APHA 5310-C / 5310-B
	Ammonia	APHA 4500-NH ₃ :C**
	Silica	APHA 4500 Si:D
	Arsenic	APHA 3120-B

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pure Water DI Water (Continued)	Arsenic	APHA 3125-B (Using ICP-MS)
	Iron	
	Aluminum	
	Lead	
	Calcium	
	Magnesium	
	Zinc	
	Sodium	
	Potassium	
	Copper	
	Nickel	
	Manganese	
	Chromium	

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SCOPE OF TESTING: CHEMICAL**SITE TESTING: CATEGORY 1**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Effluent Waste Sewage Water Industrial Waste City Water Drinking Water River Water Mineral Water Pure Water DI Water	Temperature	APHA 2550-B
	pH	APHA 4500-H ⁺ :B
	Conductivity	APHA 2150-B
	Turbidity	APHA 2130-B

Note:

APHA 21st Edition (2005), except marked “ ** “ APHA 18th Edition (1992)**Signatories:**

- | | |
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