

Name of Laboratory : Analytical Laboratory Service Co., Ltd.
Address : 611/277-279 Soi Watchan Nai, Charoenkrung Road, Bangklo,
Bangkholaem, Bangkok 10120
Accreditation Number : Testing - 0243
Contact Person : Miss.Vaewdaow Petsrithong
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Initial Issue Date : 26th October 2020
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Expired date : 8th April 2028
Standard : ISO/IEC 17025:2017
Reference No. : 0303/5273

Scope of Testing Laboratory Accreditation

Laboratory Name : Analytical Laboratory Service Co., Ltd.

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Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	- pH 4.0 to 10.0 - pH 4.0 to 10.0 - Cadmium 0.002 mg/L to 1.00 mg/L - Lead 0.01 mg/L to 4.00 mg/L - Nickel 0.004 mg/L to 2.00 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B In - house method : ALS.TE.1121 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B In - house method : ALS.TH.1101.2 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023,

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1 (cont.)	Water	- Total dissolved solids dried at 180 °C 10 mg/L to 4 000 mg/L - Total suspended solids dried from 103 °C to 105 °C 10 mg/L to 2 000 mg/L - Total hardness (Calculated as CaCO ₃) 5 mg/L to 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 D Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C

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1 (cont.)	Water	- Chloride 4 mg/L to 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500- Cl ⁻ B
		- Standard plate count CFU/mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B
		- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C

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1 (cont.)	Water	- Thermotolerant (Fecal) coliform MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C, E
		- <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C, F
		- <i>Staphylococcus aureus</i> Detected or not detected/100 mL	In - house method : ALS.TM.1103 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9213 B

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1 (cont.)	Water	- <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9274
2	Bottled drinking water	- Standard plate count CFU/mL - Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C

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2 (cont.)	Bottled drinking water	- Thermotolerant (Fecal) coliform MPN/100 mL - <i>E. coli</i> MPN/100 mL - <i>Staphylococcus aureus</i> Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C, E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C, F In - house method : ALS.TM.1103 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9213 B

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2 (cont.)	Bottled drinking water	- <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9274
3	Ice	- Standard plate count CFU/ml - Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, C

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3 (cont.)	Ice	- Thermotolerant (Fecal) coliform MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, E
		- <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, F
		- <i>Staphylococcus aureus</i> Detected or not detected/100 mL	In - house method : ALS.TM.1103 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9213 B

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3 (cont.)	Ice	- <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9274
4	Wastewater	- pH 4.0 to 10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B
		- pH 4.0 to 10.0	In - house method : ALS.TE.1121 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B

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4 (cont.)	Wastewater	- Cadmium 0.02 mg/L to 10.00 mg/L - Lead 0.10 mg/L to 40.00 mg/L - Nickel 0.04 mg/L to 20.00 mg/L - Copper 0.02 mg/L to 20.00 mg/L - Manganese 0.02 mg/L to 20.00 mg/L - Iron 0.10 mg/L to 40.00 mg/L - Zinc 0.02 mg/L to 10.00 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3111 B, 3030 E

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4 (cont.)	Wastewater	- Total solid dried from 103 °C to 105 °C 10 mg/L to 4 000 mg/L - Total dissolved solids dried at 180 °C 10 mg/L to 5 000 mg/L - Total suspended solids dried from 103 °C to 105 °C 10 mg/L to 2 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 D

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4 (cont.)	Wastewater	- COD 40 mg/L to 900 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 D

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