

Name of Laboratory : South East Asian Laboratory Co., Ltd.

Address : 999/99 Rama 9 Road, Suanluang,
Bangkok 10250

Accreditation Number : Testing - 0220

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Initial Issue Date : 6th February 2020

Issue Date : 31st August 2022

Expired date : 30th August 2026

Standard : ISO/IEC 17025:2017

Reference No. : 0303/13136

Scope of Testing Laboratory Accreditation

Laboratory Name : South East Asian Laboratory Co., Ltd.

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Bottled drinking water	- Total dissolved solids dried at 180 °C 20 mg/L to 1 500 mg/L - Total solids dried at 103 °C to 105 °C 20 mg/L to 1 500 mg/L - Aluminium 0.05 mg/L to 1.0 mg/L - Barium 0.003 mg/L to 0.1 mg/L - Cadmium 0.001 mg/L to 0.1 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Bottled drinking water	- Chromium 0.003 mg/L to 0.1 mg/L - Copper 0.05 mg/L to 1.0 mg/L - Iron 0.05 mg/L to 1.0 mg/L - Lead 0.003 mg/L to 0.1 mg/L - Manganese 0.003 mg/L to 0.1 mg/L - Silver 0.003 mg/L to 0.1 mg/L - Zinc 0.05 mg/L to 1.0 mg/L	In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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1 (cont.)	Bottled drinking water	- Arsenic 0.001 mg/L to 0.05 mg/L - Selenium 0.003 mg/L to 0.05 mg/L - Mercury 0.001 mg/L to 0.010 mg/L - pH 4.0 to 9.0	In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3114 C In - house method : TS-CH-1884 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3112 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B

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1 (cont.)	Bottled drinking water	- Color 5 Pt-Co to 20 Pt-Co - Turbidity 0.2 NTU to 10 NTU - Total hardness (Calculated as CaCO ₃) 4 mg/L to 200 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2120 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C

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1 (cont.)	Bottled drinking water	- Chloride 5 mg/L to 250 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B
		- Sulfate 5 mg/L to 100 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-SO ₄ ²⁻ E
		- Nitrate 0.20 mg/L to 4.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₃ ⁻ B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Bottled drinking water	- Fluoride 0.10 mg/L to 2.00 mg/L - Coliforms MPN/100 mL - <i>E.coli</i> MPN/100 mL Detected or not detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-F ⁻ D Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, C, F

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1 (cont.)	Bottled drinking water	- <i>Staphylococcus aureus</i> Detected or not detected - <i>Salmonella</i> spp. Detected or not detected	In - house method : TS-MI-1823 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9213 B ISO 19250 : 2010
2	Water	- Total dissolved solids dried at 180 °C 20 mg/L to 1 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C

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2 (cont.)	Water	- Total solids dried at 103 °C to 105 °C 20 mg/L to 1 500 mg/L - Aluminium 0.05 mg/L to 1.0 mg/L - Barium 0.003 mg/L to 0.1 mg/L - Cadmium 0.001 mg/L to 0.1 mg/L - Chromium 0.003 mg/L to 0.1 mg/L - Copper 0.05 mg/L to 1.0 mg/L - Iron 0.05 mg/L to 1.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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2 (cont.)	Water	- Lead 0.003 mg/L to 0.1 mg/L - Manganese 0.003 mg/L to 0.1 mg/L - Silver 0.003 mg/L to 0.1 mg/L - Zinc 0.05 mg/L to 1.0 mg/L - Arsenic 0.001 mg/L to 0.05 mg/L - Selenium 0.003 mg/L to 0.05 mg/L	In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3114 C

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2 (cont.)	Water	- Mercury 0.001 mg/L to 0.010 mg/L	In - house method : TS-CH-1884 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3112 B
		- pH 4.0 to 9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B
		- Color 5 Pt-Co to 20 Pt-Co	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2120 C

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2 (cont.)	Water	- Turbidity 0.2 NTU to 10 NTU - Total hardness (Calculated as CaCO ₃) 4 mg/L to 200 mg/L - Chloride 5 mg/L to 250 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B

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2 (cont.)	Water	- Sulfate 5 mg/L to 100 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-SO ₄ ²⁻ E
		- Nitrate 0.20 mg/L to 4.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₃ ⁻ B
		- Fluoride 0.10 mg/L to 2.00 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-F ⁻ D

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2 (cont.)	Water	- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, C
		- <i>E.coli</i> MPN/100 mL Detected or not detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, C, F
		- <i>Staphylococcus aureus</i> Detected or not detected	In - house method : TS-MI-1823 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9213 B

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2 (cont.)	Water	- <i>Salmonella</i> spp. Detected or not detected	ISO 19250 : 2010
3	Ice	- Total dissolved solids dried at 180 °C 20 mg/L to 1 500 mg/L - Total solids dried at 103 °C to 105 °C 20 mg/L to 1 500 mg/L - Aluminium 0.05 mg/L to 1.0 mg/L - Barium 0.003 mg/L to 0.1 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 B In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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3 (cont.)	Ice	- Cadmium 0.001 mg/L to 0.1 mg/L - Chromium 0.003 mg/L to 0.1 mg/L - Copper 0.05 mg/L to 1.0 mg/L - Iron 0.05 mg/L to 1.0 mg/L - Lead 0.003 mg/L to 0.1 mg/L - Manganese 0.003 mg/L to 0.1 mg/L - Silver 0.003 mg/L to 0.1 mg/L - Zinc 0.05 mg/L to 1.0 mg/L	In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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3 (cont.)	Ice	- Arsenic 0.001 mg/L to 0.05 mg/L - Selenium 0.003 mg/L to 0.05 mg/L - Mercury 0.001 mg/L to 0.010 mg/L - pH 4.0 to 9.0	In - house method : TS-CH-1870 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B, 3114 C In - house method : TS-CH-1884 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3112 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B

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3 (cont.)	Ice	- Color 5 Pt-Co to 20 Pt-Co	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2120 C
		- Turbidity 0.2 NTU to 10 NTU	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2130 B
		- Total hardness (Calculated as CaCO ₃) 4 mg/L to 200 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2340 C

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3 (cont.)	Ice	- Chloride 5 mg/L to 250 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-Cl ⁻ B
		- Sulfate 5 mg/L to 100 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-SO ₄ ²⁻ E
		- Nitrate 0.20 mg/L to 4.0 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-NO ₃ ⁻ B

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3 (cont.)	Ice	- Fluoride 0.10 mg/L to 2.00 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-F ⁻ D
		- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, C
		- <i>E.coli</i> MPN/100 mL Detected or not detected	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9221 B, C, F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
3 (cont.)	Ice	- <i>Staphylococcus aureus</i> Detected or not detected	In - house method : TS-MI-1823 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 9213 B
		- <i>Salmonella</i> spp. Detected or not detected	ISO 19250 : 2010
4	Wastewater	- Total dissolved solids dried at 180 °C 50 mg/L to 3 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C

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4 (cont.)	Wastewater	- Total suspended solids dried at 103 °C to 105 °C 10 mg/L to 1 500 mg/L - COD 20 mg/L to 600 mg/L - pH 4.0 to 9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5220 D In - house method : TS-CH-1865 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 4500-H ⁺ B

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