

Name of Laboratory : LABORATORY of BEER THAI (1991) PUBLIC CO., LTD.
Address : 349 Moo 2, Tambon Maelard, Amphoe Khlong Khlung,
Changwat Kamphaeng Phet 62120
Accreditation Number : Testing – 0069
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Initial Issue Date : 25th May 2011
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Expired date : 28th March 2026
Standard : ISO/IEC 17025:2017
Reference No. : 0303/17544

Scope of Laboratory Accreditation

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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	Beer	- pH 4.0 to 5.0 - Color 5.0 EBC to 7.0 EBC - Bitterness 5 BU to 35 BU - Alcohol 1.0 %v/v to 8.0 %v/v	Analytica-EBC, 2004, method 9.35 In - house method : W-QA-QAA-120 based on Analytica-EBC, 2000, method 9.6 In - house method : W-QA-QAA-130 based on American Society of Brewing Chemist, 2018, Beer-23, part A Analytica-EBC, 2008, method 9.2.6

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Beer	- Aerobic count CFU/100 mL	Analytica microbiologica-EBC, 2011, method 4.3.2.1
		- Anaerobic count CFU/100 mL	Analytica microbiologica-EBC, 2011, method 4.3.2.2
2	Fermenting beer and Yeast slurry	- Aerobic count CFU/mL	Analytica microbiologica-EBC, 2011, method 4.2.2
		- Wild yeast CFU/mL	Analytica microbiologica-EBC, 2011, method 4.2.5.1
		- <i>Lactobacillus</i> and <i>Pediococcus</i> CFU/mL	Analytica microbiologica-EBC, 2011, method 4.2.4.2
3	Wort	- Aerobic count CFU/mL	Analytica microbiologica-EBC, 2011, method 4.1.2

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4	Bottled drinking water	<p>- pH 6.5 to 8.5</p> <p>- Total coliforms MPN/100 mL</p> <p>- <i>E. coli</i> MPN/100 mL</p>	<p>In - house method : W-QA-QAA-005 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-H⁺ B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F</p>

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4 (cont.)	Bottled drinking water	- <i>Staphylococcus aureus</i> CFU/100 mL	In - house method : W-QA-QAA-305 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9213 B
		- Total dissolved solids dried at 180 °C 100 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
5	Wastewater	- pH 4.0 to 9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B

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5 (cont.)	Wastewater	- Total suspended solids dried from 103 °C to 105 °C 10 mg/L to 3 000 mg/L	In - house method : W-QA-QAA-006 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 D
		- Total dissolved solids dried at 180 °C 700 mg/L to 3 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C
6	Ground water	- Total coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B

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6 (cont.)	Ground water	<p>- <i>E. coli</i> MPN/100 mL</p> <p>- <i>Staphylococcus aureus</i> CFU/100 mL</p>	<p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F</p> <p>In - house method : W-QA-QAA-305 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9213 B</p>

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7	Potable water	- <i>Staphylococcus aureus</i> CFU/100 mL	In - house method : W-QA-QAA-305 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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