

Name of Laboratory : Laboratory, BEERTHIP BREWERY (1991) CO., LTD.
Address : 68 Moo 2 Tambon Namtao, Amphoe Bang Ban,
Changwat Phra Nakhon Si Ayutthaya 13250
Accreditation Number : Testing – 0044
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Initial Issue Date : 30th September 2009
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Standard : ISO/IEC 17025:2017
Reference No. : 0303/18178

Scope of Testing Laboratory Accreditation

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Corrugated fibreboard boxes - Corrugated board - Linerboard	- Bursting strength 400 kPa to 1 200 kPa - Grammage 90 g/m ² to 220 g/m ²	ISO 2759 : 2014 ISO 3039 : 2010
2	Malt	- Malt extract 70 g/100 g to 95 g/100 g - Moisture 2 g/100 g to 6 g/100 g - Passing 0.25 mm sieve 0.1 g/100 g to 2.0 g/100 g	In - house method : W-204-01-QAR-02 based on Analytica-EBC 2004, method 4.5.1 Analytica-EBC 2000, method 4.2 In - house method : W-204-01-QAR-04 based on sieving test

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3	Hop extract	- Alpha acid 33 g/100 g to 58 g/100 g - Beta acid 9 g/100 g to 38 g/100 g	In - house method : W-204-01-TNR-01 based on Analytica-EBC 2012, method 7.7
4	Hop pellet	- Alpha acid 6 g/100 g to 15 g/100 g - Beta acid 4 g/100 g to 8 g/100 g	In - house method : W-204-01-TNR-01 based on Analytica-EBC 2012, method 7.7
5	Beer	- Alcohol 3.0 % v/v to 11.0 % v/v	In - house method : W-204-01-QAC-01 based on Analytica-EBC 2008, method 9.2.1

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5 (cont.)	Beer	- Alcohol 3.0 % v/v to 12.0 % v/v - Total sulphur dioxide 1.2 mg/L to 29.3 mg/L - Iron 0.03 mg/L to 0.16 mg/L - Copper 0.03 mg/L to 0.14 mg/L - Calcium 25.53 mg/L to 70.91 mg/L - Sodium 23.98 mg/L to 71.60 mg/L	In - house method : W-204-01-QAC-10 based on Analytica-EBC 2008, method 9.2.6 In - house method : W-204-01-QAC-08 based on Analytica-EBC 2005, method 9.25.3 In - house method : W-204-01-TNR-05 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 967.08

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6	Bottled drinking water	- Total coliform MPN /100 mL - pH 6.0 to 10.0 - Chromium 0.005 mg/L to 0.040 mg/L - Cadmium 0.005 mg/L to 0.040 mg/L - Lead 0.010 mg/L to 0.040 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B In - house method : W-204-01-QAW-03 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 : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B

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6 (cont.)	Bottled drinking water	- Manganese 0.005 mg/L to 0.040 mg/L - Copper 0.005 mg/L to 0.040 mg/L - Iron 0.010 mg/L to 0.040 mg/L - Zinc 0.010 mg/L to 0.040 mg/L - Nickel 0.005 mg/L to 0.040 mg/L - Selenium 0.010 mg/L to 0.040 mg/L - Arsenic 0.005 mg/L to 0.040 mg/L - Silver 0.005 mg/L to 0.030 mg/L	In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B

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7	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
8	Mineral water	- Total coliforms MPN/100 mL - Chromium 0.005 mg/L to 0.040 mg/L - Cadmium 0.005 mg/L to 0.040 mg/L - Lead 0.010 mg/L to 0.040 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B

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8 (cont.)	Mineral water	- Manganese 0.005 mg/L to 0.040 mg/L - Copper 0.005 mg/L to 0.040 mg/L - Iron 0.010 mg/L to 0.040 mg/L - Zinc 0.010 mg/L to 0.040 mg/L - Nickel 0.005 mg/L to 0.040 mg/L - Arsenic 0.005 mg/L to 0.040 mg/L	In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B
9	Wastewater	- pH 4.0 to 10.0	In - house method : W-204-01-QAW-03 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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9 (cont.)	Wastewater	- Total suspended solids dried from 103 °C to 105 °C 6 mg/L to 3 500 mg/L - Total dissolved solids dried at 180 °C 400 mg/L to 4 000 mg/L	In - house method : W-204-01-QAW-07 based on 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 2540 C
10	Sparkling mineral 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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10 (cont.)	Sparkling mineral water	- Chromium 0.005 mg/L to 0.040 mg/L - Cadmium 0.005 mg/L to 0.040 mg/L - Lead 0.010 mg/L to 0.040 mg/L - Manganese 0.005 mg/L to 0.040 mg/L - Copper 0.005 mg/L to 0.040 mg/L - Iron 0.010 mg/L to 0.040 mg/L - Zinc 0.010 mg/L to 0.040 mg/L - Nickel 0.005 mg/L to 0.040 mg/L	In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B

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10 (cont.)	Sparkling mineral water	- Arsenic 0.005 mg/L to 0.040 mg/L	In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B
11	Soda water	- Chromium 0.005 mg/L to 0.040 mg/L - Cadmium 0.005 mg/L to 0.040 mg/L - Lead 0.010 mg/L to 0.040 mg/L - Manganese 0.005 mg/L to 0.040 mg/L - Copper 0.005 mg/L to 0.040 mg/L	In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B

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11 (cont.)	Soda water	- Iron 0.010 mg/L to 0.040 mg/L - Zinc 0.010 mg/L to 0.040 mg/L - Nickel 0.005 mg/L to 0.040 mg/L - Arsenic 0.005 mg/L to 0.040 mg/L	In - house method : W-204-01-TNR-03 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B
12	Alcohol pad	- Ethyl alcohol 59.35 %v/v to 86.61 %v/v	In - house method : W-204-01-TNR-08 based on U.S. Pharmacopeia (USP), USP 44 NF39, 2021, General Chapter 611
13	- Sparkling green tea beverage - Soda water - Soda water flavoured	- Benzoic Acids 100 mg/kg to 220 mg/kg - Sorbic Acids 100 mg/kg to 220 mg/kg	In - house method : W-204-10-TNR-10 based on ISO 22855 : 2008 (E)

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14	Cannabidiol isolate	- Cannabidiol 9.52 % w/w to 31.58 % w/w - Δ9 -Tetrahydrocannabinol 0.028 % w/w to 0.090 % w/w	In - house method : W-204-01-TNR-12 based on AOAC Official method of analysis, 22 nd ed., 2023, method 2018.10
15	Green tea beverage	- Cannabidiol 14.98 mg/kg to 99.66 mg/kg	In - house method : W-204-01-TNR-14 based on AOAC Official method of analysis, 22 nd ed., 2023, method 2018.10

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