Name of Laboratory Address	: Laboratory of Boon Rawd Brewery Co., Ltd. : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300
Accreditation Number	: Testing – 0043
Contact Person	: Mr. Kitti Rattananukool
	Phone : 0-2242-4150, 0-2242-4167
	Fax : 0-2242-4167
	E-mail : kitti@boonrawd.co.th
Initial Issue Date	: 30 th Setember 2009
Issue Date	: 9 th May 2023
Expired date	: 8 th May 2027
Standard	: ISO/IEC 17025:2017
Reference No.	: 0303/7606

Laboratory Name	: Laboratory of Boon Rawd Brewery Co., Ltd.
-----------------	---------------------------------------------

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	ry Status 🛛 : 🗹 Pe	ermanent 🛛 Site 🗌 Tempo	orary 🛛 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- pH	In - house method : TE-02
		6.0 to 10.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 rd ed., 2017,
			part 4500-H ⁺ B
		- Chloride	Standard Methods for the Examination
		1.5 mg/L to 100 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500 - Cl ⁻ B
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		2.8 mg/L to 300 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name : Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Water	- Calcium	Standard Methods for the Examination	
(cont.)		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,	
		2.8 mg/L to 300 mg/L	AWWA & WEF, 23 rd ed., 2017,	
			part 3500-Ca B	
		- Calcium		
		(Calculated as Ca)		
		1.1 mg/L to 121 mg/L		
		- Total coliforms	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9221 B, C	
		- E. coli	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
		Detected or not detected/100 mL	AWWA & WEF, 23 rd ed., 2017,	
			part 9221 B, C, G	

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name	: Laboratory of Boon Rawd Brewery Co., Ltd.
-----------------	---------------------------------------------

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Water	- Staphylococcus aureus	Standard Methods for Food Analysis	
(cont.)		Detected or not detected/100 mL	Thailand 1st ed., 2017, Volume V,	
			DMSc F2027	
		- Heterotrophic plate count	Standard Methods for the Examination	
		cfu/mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9215 B	
		- Arsenic	In - house method : TE-05	
		20 µg/L to 100 µg/L	based on United States Environmental	
		- Lead	Protection Agency, 1997, EPA,	
		10 μg/L to 100 μg/L	Method 200.7, Revision 4.4	
		- Chromium		
		5 μg/L to 100 μg/L		
		- Cadmium		
		2 µg/L to 20 µg/L		
		- Barium		
		5 μg/L to 300 μg/L		

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name	: Laboratory of Boon Rawd Brewery Co., Ltd.
-----------------	---------------------------------------------

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	aboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗍 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Rice	- Protein	In - house method : TE-07	
		7.60 g/100 g to 9.60 g/100 g	based on Analytica EBC, 2004,	
			method 3.3.1	
		- Moisture	Analytica EBC, 2004, method 6.2.1	
		11.0 g/100 g to 13.0 g/100 g		
3	Malt	- Protein	In - house method : TE-04	
		9.80 g/100 g to 11.70 g/100 g	based on Analytica EBC, 2004,	
			method 4.3.1	
		- Moisture	Analytica EBC, 2000, method 4.2	
		3.8 g/100 g to 7.3 g/100 g		

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name : Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile				
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
4	Beer	- Alcohol	In - house method : TE-12		
		0.37 %v/v to 8.89 %v/v	based on Analytica EBC, 2008,		
			method 9.2.6		
		- Color	Analytica EBC, 2000, method 9.6		
		3.52 EBC to 17.80 EBC			
5	Bottled drinking	- Total coliforms	Standard Methods for the Examination		
	water	cfu/100 mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9222 B		
		- E. coli	Standard Methods for the Examination		
		cfu/100 mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9222 B, I		

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name : Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	Laboratory Status : $oldsymbol{ extsf{Permanent}}$ Bite $oldsymbol{ extsf{D}}$ Temporary $oldsymbol{ extsf{D}}$ Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
5	Bottled drinking	- Heterotrophic plate count	Standard Methods for the Examination	
(cont.)	water	cfu/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9215 D	
		- Heterotrophic plate count	Standard Methods for the Examination	
		cfu/mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9215 B	
		- Staphylococcus aureus	Standard Methods for Food Analysis	
		Detected or not detected/100 mL	Thailand 1 st ed., 2017, Volume V,	
			DMSc F2027	

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name : Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site \square Temporary \square Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
5	Bottled drinking	- pH	In - house method : TE-02	
(cont.)	water	6.0 to 10.0	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 rd ed., 2017,	
			part 4500-H ⁺ B	
		- Chloride	Standard Methods for the Examination	
		1.5 mg/L to 100 mg/L	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 4500-Cl [®] B	
		- Total hardness	Standard Methods for the Examination	
		(Calculated as $CaCO_3$)	of Water and Wastewater, APHA,	
		2.8 mg/L to 300 mg/L	AWWA & WEF, 23 rd ed., 2017,	
			part 2340 C	

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name : Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laborator	Laboratory Status : 🗹 Permanent 🗖 Site 🗖 Temporary 🗖 Mobile			
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
5	Bottled drinking	- Calcium	Standard Methods for the Examination	
(cont.)	water	(Calculated as CaCO ₃)	of Water and Wastewater, APHA,	
		2.8 mg/L to 300 mg/L	AWWA & WEF, 23 rd ed., 2017,	
			part 3500-Ca B	
		- Calcium		
		(Calculated as Ca)		
		1.1 mg/L to 121 mg/L		
		- Bromate	In - house method : TE-15	
		3 μg/L to 30 μg/L	based on ASTM D 6581-18	
		- Bromide		
		10 μg/L to 100 μg/L		

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name : Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laboratory Status : 🗹 Permanent 🗆 Site 🗖 Temporary 🗖 Mobile					
ltem	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
5	Bottled drinking	- Total Coliforms	Standard Methods for the Examination		
(cont.)	water	MPN/100 mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9221 B, C		
		- E. coli	Standard Methods for the Examination		
		MPN/100 mL	of Water and Wastewater, APHA,		
		Detected or not detected	AWWA & WEF, 23 rd ed., 2017,		
			part 9221 B, C, G		
		- Fluoride	In – house method : TE-17		
		0.1 mg/L to 1.0 mg/L	based on United States Environmental		
			Protection Agency, 1997, EPA		
			Method 300.1, Revision 1.0		

Initial Issue Date 30th September 2009

Issue Number 11

Laboratory Name	: Laboratory of Boon Rawd Brewery Co., Ltd.

Address : 999 Samsen Road, Nakhonchaisri, Dusit, Bangkok 10300

Accreditation Number : Testing - 0043

Laboratory Status : 🗹 Permanent 🗆 Site 🛛 Temporary 💭 Mobile				
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
6	Wort	- Color	Analytica EBC, 2000, method 8.5	
		2.92 EBC to 15.03 EBC		

Initial Issue Date 30th September 2009

Issue Number 11