



Accreditation No. 1031/47

Analysis / Test Report

Client : M. Water Co., Ltd.
1 Soi Vibhavadee-Rangsit 41 Yak 1, Sanambin, Donmuang, Bangkok Thailand 10210

P/O : MPO6401/00215

Project Name :

Project Location :

Lot ID: 218367

Date Received : Jan 20, 2021

Date Reported : Jan 29, 2021

Report Number : 1882701-1

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Sample Number	218367-1
Sampled Date	Jan 20, 2021
Sample Description	น้ำสำเร็จรูป
Date Analysis Commenced	Jan 20, 2021
Condition of Sample	two glass vials and seven plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/L	0.0005	0.001	0.001	No Standard	Based on APHA (2017), 3125	Bangkok
Arsenic	mg/L	0.00005	0.0001	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.00005	0.0001	0.0003	≤0.7	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.00005	0.0001	Not Detected	≤0.003	Based on APHA (2017), 3125	Bangkok
Chromium	mg/L	0.00005	0.0001	Not Detected	≤0.05	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.00005	0.0001	Not Detected	≤1	Based on APHA (2017), 3125	Bangkok
Iron	mg/L	0.0005	0.001	0.001	≤0.3	Based on APHA (2017), 3125	Bangkok
Lead	mg/L	0.00005	0.0002	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.00005	0.0001	0.0006	≤0.05	Based on APHA (2017), 3125	Bangkok
Mercury	mg/L	0.000008	0.0001	Not Detected	≤0.001	Based on US EPA, Method 1631 Revision E	Bangkok
Selenium	mg/L	0.00005	0.0001	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Silver	mg/L	0.00005	0.0001	Not Detected	No Standard	Based on APHA (2017), 3125	Bangkok
Zinc	mg/L	0.001	0.005	<0.005	≤3	Based on APHA (2017), 3125	Bangkok
Microbiological Testing							
<i>Clostridium perfringens</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-012 in connection with: - APHA (2017), 9260 A,B - BAM (2001), Chapter 16	Bangkok
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9221 F	Bangkok
<i>Salmonella spp.</i>	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9260 B	Bangkok
Standard Plate Count	CFU/mL	-	-	<1	≤500	APHA (2017), 9215 B	Bangkok
<i>Staphylococcus aureus</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-054 in connection with: - APHA (2017), 9213 B - BAM (2016), Chapter 12	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Bangkok

Approved by

Tuanjai Thangklang
Assistant Manager

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Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Alkylbenzene Sulfonate as MBAS	mg/L	0.05	0.1	Not Detected	≤0.2	APHA (2017), 5540 C	Bangkok
Bromate	mg/L	0.001	0.005	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Chloride as Cl	mg/L	0.06	0.2	2.1	≤250	APHA (2017), 4110 B	Bangkok
Color	Color unit	-	5	<5	≤5	APHA (2017), 2120 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.07	APHA (2017), 4500-CN (C),(E)	Bangkok
Fluoride as F	mg/L	0.05	0.1	Not Detected	≤0.7	APHA (2017), 4110 B	Bangkok
Nitrate as N	mg/L	0.06	0.2	<0.2	≤4	APHA (2017), 4110 B	Bangkok
Odour	-	-	-	Odourless	Non Objectionable	APHA (2017), 2150 B	Bangkok
pH at 25 degree C	-	-	-	6.9	6.5-8.5	APHA (2017), 4500-H(B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤0.001	APHA (2017), 5530 C	Bangkok
Sulfate	mg/L	0.15	0.5	<0.5	≤200	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	14	≤500	Based on APHA (2017), 2540 C	Bangkok
Total Hardness as CaCO ₃	mg/L	0.5	1	<1	≤100	APHA (2017), 2340 C	Bangkok
Total Solids Dried at 103-105 degree C	mg/L	-	5	19	No Standard	APHA (2017), 2540 B	Bangkok
Turbidity	NTU	-	0.1	0.42	≤5	APHA (2017), 2130 B	Bangkok

Guideline : Thai Industrial Standard No. 257-2549 refer to Notification of the Ministry of Industry No. 3470 (B.E. 2549).

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

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Tuanjai Thangklang
Assistant Manager

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