



Analysis / Test Report

TESTING
No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
2/1, Hongyok Utis Road, Taladyai, Muang, Phuket Thailand 83000

P/O : 005-4304217105

Project Name : Water Testing : BPK

Project Location :

Lot ID: 21127038

Date Received : Nov 03, 2021

Date Reported : Nov 12, 2021

Report Number : 2131279-1

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Sample Number	21127038-1
Sampled Date	Nov 02, 2021 1:30 PM
Sample Description	น้ำประปา Colorectal
Location	ถังเก็บน้ำล้างเครื่องมือ ชั้น 3 อ.2
Date Analysis Commenced	Nov 03, 2021
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.001	0.005	<0.005	≤0.3	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	Not Detected	≤0.3	Based on APHA (2017), 3125	Songkhla
Microbiological Testing							
^[A] <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
^[A] <i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9221 F	Bangkok
^[A] <i>Salmonella spp.</i>	in 100 mL	-	-	Not Detected	Not Detected	ISO 19250 (2010)	Bangkok
^[A] <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
^[A] Total Coliform	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9221 B	Bangkok
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	0.3	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	5	≤15	APHA (2017), 2120 B	Songkhla
^[A] Nitrate as NO ₃	mg/L	0.3	1.0	1.3	≤50	APHA (2017), 4110 B	Bangkok
Odour *		-	-	Odourless	Non Objectionable	Based on APHA (2017), 2150	Songkhla
pH at 25 degree C		-	-	7.9	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
Sulfate	mg/L	0.15	0.5	Not Detected	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	<5	≤600	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	<1	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.42	≤4	APHA (2017), 2130 B	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority , (1) : Guideline for Inorganic Mercury

Approved by

Chompoonuch F.

Chompoonuch Funtha
Scientist (4)

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Sampled By : Nutdanai Juealaong , Thaksin Aintrom

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.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DMSc Accreditation No. 1031/47.

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Sample Number	21127038-2
Sampled Date	Nov 02, 2021 12:25 PM
Sample Description	น้ำประปา ห้องชนงม
Location	อ่างน้ำห้องชนงม ชั้น 3
Date Analysis Commenced	Nov 03, 2021
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.001	0.005	0.009	≤0.3	Based on APHA (2017), 3125	Songkhla
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^[A] Total Coliform	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9221 B	Bangkok
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	26.2	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	5	≤15	APHA (2017), 2120 B	Songkhla
^[A] Nitrate as NO ₃	mg/L	0.3	1.0	35.1	≤50	APHA (2017), 4110 B	Bangkok
Odour *		-	-	Odourless	Non Objectionable	Based on APHA (2017), 2150	Songkhla
pH at 25 degree C		-	-	7.4	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
Sulfate	mg/L	0.15	0.5	7.4	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	164	≤600	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	49	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.23	≤4	APHA (2017), 2130 B	Songkhla

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