



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 - 4304217106

Project Name : Water Testing : BPK

Project Location :

Lot ID: 21127292

Date Received : Dec 08, 2021

Date Reported : Dec 17, 2021

Report Number : 2149437-1

Page 1 of 2

| | |
|--------------------------------|--|
| Sample Number | 21127292-1 |
| Sampled Date | Dec 07, 2021 10:13 AM |
| Sample Description | น้ำประปา GI |
| Location | ถังเก็บน้ำล้างเครื่องมือ |
| Date Analysis Commenced | Dec 08, 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 | Not Detected | ≤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 | | | | | | | |
| <i>Clostridium perfringens</i> | in 100 mL | - | - | Not Detected | Not Detected | In-house method based on APHA (2017), 9260 A, B | Songkhla |
| <i>Escherichia coli</i> | in 100 mL | - | - | Not Detected | Not Detected | APHA (2017), 9221 F | Songkhla |
| <i>Salmonella spp.</i> | in 100 mL | - | - | Not Detected | Not Detected | ISO 19250 (2010) | Songkhla |
| <i>Staphylococcus aureus</i> | in 100 mL | - | - | Not Detected | Not Detected | In-house method based on APHA (2017), 9213 B | Songkhla |
| Total Coliform | in 100 mL | - | - | Detected | Not Detected | APHA (2017), 9221 B | Songkhla |
| Water Testing | | | | | | | |
| ^[A] Chloride as Cl | mg/L | 0.06 | 0.2 | 28.1 | ≤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 | 38.0 | ≤50 | APHA (2017), 4110 B | Bangkok |
| Odour * | | - | - | Odourless | Non Objectionable | Based on APHA (2017), 2150 | Songkhla |
| pH at 25 degree C | | - | - | 6.7 | 6.5-8.5 | Based on APHA (2017), 4500-H (B) | Songkhla |
| ^[A] Sulfate | mg/L | 0.15 | 0.5 | 7.2 | ≤250 | APHA (2017), 4110 B | Bangkok |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 178 | ≤600 | APHA (2017), 2540 C | Songkhla |
| Total Hardness as CaCO ₃ | mg/L | - | 1 | 48 | ≤300 | APHA (2017), 2340 C | Songkhla |
| Turbidity | NTU | - | 0.1 | 0.38 | ≤4 | APHA (2017), 2130 B | Songkhla |

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

Sampled By : Yuttapong Rattana , Thaksin Aintrom

Remark :

- LOD : Limit of Detection

Approved by

Sutthirak T.

Sutthirak Tiprat
Scientist (2)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Page 2 of 2

- "<" : 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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