



Analysis / Test Report

TESTING
No.0166

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

P/O : 005-4305045534

Project Name : Water Testing : BPK

Project Location :

Lot ID: 2252631

Date Received : May 04, 2022

Date Reported : May 21, 2022

Report Number : 2320512-1

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Sample Number	2252631-1
Sampled Date	May 03, 2022 11:40 AM
Sample Description	น้ำเติมชุดเซย์ในระบบ Cooling tower
Location	น้ำเติมชุดเซย์ในระบบ Cooling tower
Date Analysis Commenced	May 04, 2022
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
Microbiological Testing							
<i>Legionella spp.</i> *	CFU/L	-	-	Not Detected**	Not Detected (1)	ISO 11731 (2017)	Bangkok
Water Testing							
Calcium Hardness as CaCO ₃ *	mg/L	-	1	42	No Standard	Based on APHA (2017), 3500-Ca (B)	Songkhla
^[A] Chloride as Cl	mg/L	0.06	0.2	26.7	≤300	APHA (2017), 4110 B	Bangkok
Conductivity *	micromhos/cm	-	0.5	232	≤3000	Based on APHA (2017), 2510 B	Songkhla
pH at 25 degree C		-	-	7.5	7-9	Based on APHA (2017), 4500-H (B)	Songkhla
Phosphate as P *	mg/L	0.15	0.5	Not Detected	≤20	APHA (2017), 4110 B	Bangkok
Silica as SiO ₂ *	mg/L	0.02	0.05	23.8	≤120	Based on APHA (2017), 4500-SiO ₂ (D)	Bangkok
Total Alkalinity as CaCO ₃ *	mg/L	-	1	52	≤1000	Based on APHA (2017), 2320 B	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	106	≤2000	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	54	≤300	APHA (2017), 2340 C	Songkhla

Guideline : หนังสือการปรังแต่งคุณภาพน้ำ มาตรฐานน้ำใน Cooling Tower ดร.มันสิน ตัณฑุลเวศน์
(1) ประกาศกรมอนามัย พ.ศ. 2544 เรื่องข้อปฏิบัติกรควบคุมเชื้อลิจิโอะเนลลา ในหอฝ้งเย็นของอาคารในประเทศไทย

Note : ** Not Detected mean Bacteria not found in agar plate.

Sampled By : Yuttapong Rattana , 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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