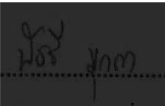


การฝึกอบรม หลักสูตร การฝึกซ้อมดับเพลิงและการฝึกซ้อมอพยพหนีไฟ

ชื่อสถานประกอบการ โรงแรมไฮแอท รีเจนซี่ ภูเก็ต รีสอร์ท

วันที่ 12 เดือน กันยายน พ.ศ. 2568 เวลา 08.00 – 17.00 น.

ลำดับ	ชื่อ-สกุล	ตำแหน่ง	หน่วยงาน/แผนก	หมายเหตุ
286	นาง รุจกานันท์ โพนบุญ	Chef de partie - Employee Restaurant	Human Resources	
287	นางสาว จินัสรา ชัยฤกษ์	Senior Team Leader - Human Resources	Human Resources	
288	นาง ครุณี บัวเรือง	Demi Chef - Employee Restaurant	Human Resources	
289	นาย สรยุทธ ขายดำ	Commis - Employee Restaurant	Human Resources	
290	นางสาว พัชรี มุกดา	Training Manager	Human Resources	
291	นางสาว วาทีดา บุธธามัต	Assistant Human Resources Manager	Human Resources	
292	นาย นรภัทร รันตศิลป์	Commis - Employee Restaurant	Human Resources	
293	นาย ณัฐพงษ์ ไชยภูมิ	Human Resources Coordinator	Human Resources	
294	นางสาว ปริยาลักษณ์ รอดเข็ม	Commis - Employee Restaurant	Human Resources	
295	นาง Zin Mar Soe	Steward - Temporary	Human Resources	
296	นาย คมจิพัฒน์ คงวาง	Trainee - Human Resources	Human Resources	
297	นางสาว ธันยาภรณ์ บำรุงสิน	Trainee - Human Resources	Human Resources	
298	นาง Diana Tan Choi Mien	Director of MICE	Sales & Marketing	
299	นางสาว อมรรรัตน์ สกุลทองบุญศิริ	Assistant Marketing Communications Manager	Sales & Marketing	
300	นางสาว จริยา คงช่วย	Director of Sales	Sales & Marketing	
301	นาย Ishan Sawant	Cluster Director of Revenue	Sales & Marketing	
302	นาย Sumit Gautam	Cluster Assistant Director of Digital Marketing	Sales & Marketing	
303	นางสาว ชนิตดา การะวัด	Cluster Director of Marcom	Sales & Marketing	
304	นางสาว ปิยะเพ็ญ เทอร์เนอร์	Sales Executive - MICE	Sales & Marketing	
305	นางสาว มณีนันท์ สายสุน	Cluster Revenue Executive	Sales & Marketing	
306	นางสาว เปรมฤดี ยางสูง	Social Media Specialist	Sales & Marketing	
307	นาย Ankur Bhatnagar	Cluster Revenue Manager	Sales & Marketing	
308	นาย วชิระ พราหมณ์ชื่น	Sales Manager	Sales & Marketing	

(.....) 
ผู้รับรองรายชื่อ

****ไม่ต้องลงลายมือชื่อ****

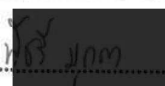


การฝึกอบรม หลักสูตร การฝึกซ้อมดับเพลิงและการฝึกซ้อมอพยพหนีไฟ

ชื่อสถานประกอบการ โรงแรมไฮแอท รีเจนซี่ ภูเก็ต รีสอร์ท

วันที่ 12 เดือน กันยายน พ.ศ. 2568 เวลา 08.00 – 17.00 น.

ลำดับ	ชื่อ-สกุล	ตำแหน่ง	หน่วยงาน/แผนก	หมายเหตุ
309	นางสาว ณัฐวิภา วงษ์ปัญญา	Marketing Communications Manager	Sales & Marketing	
310	นางสาว Ines Nunes De Campos Adclino	Sales & Marketing Manager - Casa Boho	Sales & Marketing	
311	นางสาว อูตินันท์ จำปาหวาย	Sales Executive	Sales & Marketing	
312	นาย Chansovan Varith Ngim	Sales Trainee	Sales & Marketing	
313	นาย ธรณ์ แก้วศิริ	Sales Trainee	Sales & Marketing	
314	นางสาว เพ็ญภา วิทยาพันธ์	Reservation Manager	Reservation	
315	นางสาว จริยา สร้อยสน	Assistant Manager - Reservations	Reservation	
316	นางสาว สาลินี มีอู่	Team Leader - Reservations	Reservation	
317	นางสาว ศิรอร วรรณโร	Guest Service Officer - Reservations	Reservation	
318	นาย กัทธมนท์ วิริยะสหพงษ์	Technician	POMEC	
319	นาย กิรายุ ชูประสูตร	Technician	POMEC	
320	นาย สนสัณห์ ทองกุ่ม	Team Leader - POMEC	POMEC	
321	นาย พาสทอง วิชาดา	Technician	POMEC	
322	นาย วานสิทธิ์ คະເນີດ	Technician	POMEC	
323	นาย ชัยยศ มากพริ้ม	Engineering Manager	POMEC	
324	นาย พิภักดิ์ เงินสิน	Team Leader - POMEC	POMEC	
325	นาย ชัยวัฒน์ แซ่โจ้ว	Technician	POMEC	
326	นาย สหราช ทองสาร	Team Leader - POMEC	POMEC	
327	นาย วัชรินทร์ พันธุ์ชนะ	Technician	POMEC	
328	นาย เอกราช ชูดวง	Technician	POMEC	
329	นาย สัมพันธ์ สังศรี	Technician	POMEC	

(.....) 

ผู้รับรองรายชื่อ

ไม่ต้องลงลายมือชื่อ



การฝึกอบรม หลักสูตร การฝึกซ้อมดับเพลิงและการฝึกซ้อมอพยพหนีไฟ

ชื่อสถานประกอบการ โรงแรมไฮแอท รีเจนซี่ ภูเก็ต รีสอร์ท

วันที่ 12 เดือน กันยายน พ.ศ. 2568 เวลา 08.00 – 17.00 น.

ลำดับ	ชื่อ-สกุล	ตำแหน่ง	หน่วยงาน/แผนก	หมายเหตุ
330	นาย ธรรมรักษ์ ภิระวัฒน์	Engineering Store	POMEC	
331	นาย ประวิทย์ หมาดรักษา	Technician	POMEC	
332	นาย ประสพศักดิ์ บุญรักษ์	Team Leader - POMEC	POMEC	
333	นาย ณรงค์เดช พรหมเกตุ	Team Leader - POMEC	POMEC	
334	นาย เอกพงษ์ สาเสริม	Engineering Coordinator	POMEC	
335	นาย สมควร ชูศรี	Team Leader - POMEC	POMEC	
336	นาย ไพลิน พลับเพลิง	Technician	POMEC	
337	นาย วสันต์ อุตาย	Technician	POMEC	
338	นาย เรืองวิทย์ กิ่งแก้ว	Assistant Engineering Manager	POMEC	
339	นาย Ye Min Thein	Team Leader - POMEC	POMEC	
340	นาย โกมล ปิ่นทองพันธ์	Technician	POMEC	
341	นาย เจนวิทย์ ณ สุวรรณ	Director of Engineering	POMEC	
342	นาย รัฐพงษ์ รัตนบุรี	Technician	POMEC	
343	นาย คณิต ยาทระจันทร์	Technician	POMEC	
344	นาย รออัน จังแคลหา	Technician	POMEC	
345	นาย เรืองยศ แก้วรักษา	Technician	POMEC	
346	นาย กมลพ ศิวทอง	Technician	POMEC	
347	นาย สุทธนนท์ แซ่อู่	Technician	POMEC	
348	นาย จักรกฤษณ์ คำแก้ว	Technician	POMEC	
349	นาย กฤษณะ พลิตา	Technician	POMEC	

(.....)
 ผู้รับรองรายชื่อ



****ไม่ต้องลงลายมือชื่อ****

การฝึกอบรม หลักสูตร การฝึกซ้อมดับเพลิงและการฝึกซ้อมอพยพหนีไฟ
 ชื่อสถานประกอบการ โรงแรมไฮแอท รีเจนซี่ ภูเก็ต รีสอร์ท
 วันที่ 12 เดือน กันยายน พ.ศ. 2568 เวลา 08.00 – 17.00 น.

ลำดับ	ชื่อ-สกุล	ตำแหน่ง	หน่วยงาน/แผนก	หมายเหตุ
350	นาย ปราบดา พัฒนสระสูง	Director of Engineering	POMEC	
351	นาย นรินทร์ ณ ถลาง	Technician - Temporary	POMEC	
352	นาย ชาเว็ด หว่าหัด	Technician - Temporary	POMEC	
353	นาย รัฐพงษ์ รัตนบุรี	POMEC Trainee	POMEC	
354	นางสาว กมลวรรณ ศรีสังข์	Kids Club Attendant	Reservation	
355	นาย Milos Zivkovic	Resort Experiences Manager	Reservation	
356	นาย พงษ์สุธรรม จือเหลียง	Recreation Attendant	Reservation	
357	นางสาว เจริญศรี ซาหยอง	Team Leader - Recreation	Reservation	
358	นาย Marat Khaidarov	Marine Biologist	Reservation	
359	นางสาว วรณรดา มีพร้อม	Recreation Attendant	Reservation	
360	นางสาว จุฑารัตน์ สะเดโซ	Marine Attendant	Reservation	
361	นาย ชุณย์ดี อุเม	Recreation Attendant	Reservation	
362	นางสาว ฐิตินัน เขียวชะอุ่ม	Kids Club Attendant	Reservation	
363	นาย พรเทพ เพ็งระวะ	Lifeguard	Reservation	
364	นาย จิรวัดน์ มารักคิด	Lifeguard	Reservation	
365	นางสาว Phyu Hnin Kha	Recreation Attendant - Trainee	Reservation	

(.....) **ผู้รับรองรายชื่อ**
 ****ไม่ต้องลงลายมือชื่อ****



สรุปทั้งหมด

รวมทั้งหมด 365 คน

ผู้ชาย 183 คน ผู้หญิง 182 คน

ภาคผนวก ข-7

ใบอนุญาตประกอบธุรกิจโรงแรม



ทะเบียนเลขที่.....๔๓/๒๕๕๖
ใบอนุญาตเลขที่.....๓๑/๒๕๖๗

กระทรวงมหาดไทย

ใบอนุญาตประกอบธุรกิจโรงแรม

ใบอนุญาตฉบับนี้ให้ไว้เพื่อแสดงว่า บริษัท กมลา เบย์ เวนเจอร์ส จำกัด
โดย นายเรวัตร รัตนวิภา

ได้รับอนุญาตให้ประกอบธุรกิจโรงแรมตามมาตรา ๑๕ แห่งพระราชบัญญัติ
โรงแรม พ.ศ. ๒๕๔๗ โดยใช้ชื่อภาษาไทยว่า ไฮแอท รีเจนซี่ ภูเก็ต รีสอร์ท

ชื่อภาษาต่างประเทศ (ถ้ามี) HYATT REGENCY PHUKET RESORT

โรงแรมประเภท.....๓.....จำนวนห้องพัก.....๒๐๒.....ห้อง

สถานที่ตั้ง เลขที่ ๑๖/๑๒ หมู่ที่ ๖ ตำบลกมลา

อำเภอกะทู้ จังหวัดภูเก็ต

ตั้งแต่วันที่ ๒๕ เดือน ธันวาคม พ.ศ. ๒๕๖๖ ถึง วันที่ ๒๕ เดือน ธันวาคม พ.ศ. ๒๕๗๑

ออกให้ ณ วันที่ ๒๕ เดือน เมษายน พ.ศ. ๒๕๖๗

(นายสุรพร ท่องคำ)
รองผู้ว่าราชการจังหวัด ปฏิบัติราชการใน
ตำแหน่งผู้ว่าราชการจังหวัด
ประทับตราประจำตำแหน่งเป็นสำคัญ

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์คุณภาพน้ำ



Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2554608

Date Received : Jul 04, 2025
Date Reported : Jul 22, 2025
Report Number : 3365171-1

Page 1 of 3

Sample Number 2554608-3
Sampled Date Jul 03, 2025 10:51 AM
Sample Description Consumption Water
Location Guest Room: Room 7014
Date Analysis Commenced Jul 04, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
^[A] Iron	mg/L	0.003	0.005	0.04	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F	Songkhla
Standard Plate Count *	CFU/100mL	-	-	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9215 D	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
Bicarbonate Alkalinity as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
^[A] Chloride as Cl	mg/L	0.06	0.2	95.9	≤250.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Color (Apparent) *	Color unit	-	5	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Songkhla

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Chompoonuch F.

Chompoonuch Funtha
Supervisor

ADDRESS 114/1 Moo 8 Karnchanawanich Road T. Ban Phru A. Hat Yai Songkhla 90250 Thailand | PHONE +66 0 7489 5060 | FAX +66 0 7489 5068
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2554608

Date Received : Jul 04, 2025
Date Reported : Jul 22, 2025
Report Number : 3365171-1

Page 2 of 3

Sample Number 2554608-3
Sampled Date Jul 03, 2025 10:51 AM
Sample Description Consumption Water
Location Guest Room: Room 7014
Date Analysis Commenced Jul 04, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity *	micromhos/cm	-	0.5	540	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Songkhla
Hydroxide Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Methyl Orange Alkalinity as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Permanent Hardness as CaCO ₃ *	mg/L	-	1	35	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
pH at 25 degree C		-	-	7.8	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Residual Alkalinity *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Temporary Hardness as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Alkalinity as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Chompoonuch Funtha
Supervisor

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2554608

Date Received : Jul 04, 2025
Date Reported : Jul 22, 2025
Report Number : 3365171-1

Page 3 of 3

Sample Number 2554608-3
Sampled Date Jul 03, 2025 10:51 AM
Sample Description Consumption Water
Location Guest Room: Room 7014
Date Analysis Commenced Jul 04, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
^[A] Total Hardness as CaCO ₃	mg/L	-	1	121	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	1.10	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Songkhla

Guideline : Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553 & Pathogenic 416 B.E. 2563

Sampling By : Thaksin Aintrom , Furakan Kasetka

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567416
Date Received : Aug 09, 2025
Date Reported : Aug 20, 2025
Report Number : 3386635-1

Page 1 of 3

Sample Number 2567416-2
Sampled Date Aug 08, 2025 10:25 AM
Sample Description Consumption Water
Location Guest Room 3017
Date Analysis Commenced Aug 09, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.05	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F	Songkhla
Standard Plate Count *	CFU/100mL	-	-	16	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9215 D	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
Bicarbonate Alkalinity as CaCO ₃ *	mg/L	-	1	85	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
^[A] Chloride as Cl	mg/L	0.06	0.2	106	≤250.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Songkhla

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Ananta B.

Ananta Boonphet
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567416
Date Received : Aug 09, 2025
Date Reported : Aug 20, 2025
Report Number : 3386635-1

Page 2 of 3

Sample Number 2567416-2
Sampled Date Aug 08, 2025 10:25 AM
Sample Description Consumption Water
Location Guest Room 3017
Date Analysis Commenced Aug 09, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity *	micromhos/cm	-	0.5	593	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Songkhla
Hydroxide Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Methyl Orange Alkalinity as CaCO ₃ *	mg/L	-	1	85	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Permanent Hardness as CaCO ₃ *	mg/L	-	1	31	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
pH at 25 degree C		-	-	7.7	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Residual Alkalinity *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Temporary Hardness as CaCO ₃ *	mg/L	-	1	85	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Alkalinity as CaCO ₃ *	mg/L	-	1	85	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567416

Date Received : Aug 09, 2025
Date Reported : Aug 20, 2025
Report Number : 3386635-1

Page 3 of 3

Sample Number 2567416-2
Sampled Date Aug 08, 2025 10:25 AM
Sample Description Consumption Water
Location Guest Room 3017
Date Analysis Commenced Aug 09, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
^[A] Total Hardness as CaCO ₃	mg/L	-	1	116	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.55	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Songkhla

Guideline : Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553 & Pathogenic 416 B.E. 2563

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : Sep 05, 2025
Date Reported : Sep 15, 2025
Report Number : 3406938-1

Page 1 of 3

Sample Number 2579859-2
Sampled Date Sep 04, 2025 11:15 AM
Sample Description Consumption Water
Location Guest Room : No.1005
Date Analysis Commenced Sep 05, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.03	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F	Songkhla
Standard Plate Count *	CFU/100mL	-	-	4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9215 D	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
Bicarbonate Alkalinity as CaCO ₃ *	mg/L	-	1	70	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO ₃ *	mg/L	-	1	<1		Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
^[A] Chloride as Cl	mg/L	0.06	0.2	90.6	≤250.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Songkhla

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Approved by

Chompoonuch F.

Chompoonuch Funtha
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : Sep 05, 2025
Date Reported : Sep 15, 2025
Report Number : 3406938-1

Page 2 of 3

Sample Number 2579859-2
Sampled Date Sep 04, 2025 11:15 AM
Sample Description Consumption Water
Location Guest Room : No.1005
Date Analysis Commenced Sep 05, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity *	micromhos/cm	-	0.5	468	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Songkhla
Hydroxide Alkalinity as CaCO ₃ *	mg/L	-	1	<1		Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Methyl Orange Alkalinity as CaCO ₃ *	mg/L	-	1	70	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Permanent Hardness as CaCO ₃ *	mg/L	-	1	24	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
pH at 25 degree C		-	-	7.1	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Residual Alkalinity *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Temporary Hardness as CaCO ₃ *	mg/L	-	1	70	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Alkalinity as CaCO ₃ *	mg/L	-	1	70	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Chompoonuch Funtha
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : Sep 05, 2025
Date Reported : Sep 15, 2025
Report Number : 3406938-1

Page 3 of 3

Sample Number 2579859-2
Sampled Date Sep 04, 2025 11:15 AM
Sample Description Consumption Water
Location Guest Room : No.1005
Date Analysis Commenced Sep 05, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
^[A] Total Hardness as CaCO ₃	mg/L	-	1	94	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	1.20	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Songkhla

Guideline : Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553 & Pathogenic 416 B.E. 2563

Sampling By : Thaksin Aintrom , Sakkarin Panpheng

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588251
cate ReDeived : gDt 04, 2025
cate Reported : gDt 22, 2025
Report Number : 3432190-1

Page 1 of 3

Sample Number	2588251-3						
Sampled Date	gDt 03, 2025 11:12 AM						
Sample Description	Consumption Water						
Location	Guest Room (Room 2005 H						
Date Analysis Commenced	gDt 04, 2025						
Condition of Sample	Contained in 7bur plastiD bottles, sample Containers Dmply to pretreatment - preservation standards (APUA, SE) PAH						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mf /L	0.003	0.005	0.02	≤0.3	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 3125 B,3030 F	Eonf khla
Microbiological Testing							
)sDheriDhia Doli	in 100 mL	-	-	Not c eteDted	Not c eteDted	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 9221 B, F	Eonf khla
Etandard Plate Count *	CFS/100mL	-	-	11	No Etandard	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 9215 c	Eonf khla
Total Coli7orm	MPN/100mL	-	-	<1.1	<2.2	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 9221 B	Eonf khla
Water Testing							
BiDarbonate Alkalinity as CaCg3 *	mf /L	-	1	86	No Etandard	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Carbonate Alkalinity as CaCg3 *	mf /L	-	1	<1	No Etandard	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Chloride as Cl	mf /L	0.06	0.2	68.]	≤250.0	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 4110 B	Banf kok
Color *	Color unit	-	5	<5	≤20	Etandard Methods 7br the)xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2120 B	Eonf khla

Results apply to the sample(s) has submitted, unless the samplinF was Dondudted by ALE. The report shall not be reproduced exDpt in 7ull without the written approval o7the laboratory.

Approved by

Kanitta H.

Kanitta Uemprasatporn
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588251
cate ReDeived : gDt 04, 2025
cate Reported : gDt 22, 2025
Report Number : 3432190-1

Paf e 2 o73

Sample Number	2588251-3
Sampled Date	gDt 03, 2025 11:12 AM
Sample Description	Consumption Water
Location	Guest Room (Room 2005 H
Date Analysis Commenced	gDt 04, 2025
Condition of Sample	Contained in 7bur plastiDbottles, sample Containers Dmply to pretreatment - preservation standards (APUA, SE) PAH

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
ConduDivity *	miDromhos/Dm	-	0.5	580	No Etandard	Based on Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2510 B	Eonf khla
Uydroxide Alkalinity as CaCg 3 *	mf /L	-	1	<1	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Methyl g ranf e Alkalinity as CaCg 3 *	mf /L	-	1	86	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Permanent Uardness as CaCg 3 *	mf /L	-	1	23	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
pU at 25 def ree C		-	-	] .4	6.5-8.5	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 4500 - U (BH	Eonf khla
Phenolphthalein Alkalinity as CaCg 3 *	mf /L	-	1	<1	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Residual Alkalinity *	mf /L	-	1	<1	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Temporary Uardness as CaCg 3 *	mf /L	-	1	86	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok
Total Alkalinity as CaCg 3 *	mf /L	-	1	86	No Etandard	Etandard Methods 7or the) xamination o7Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2320 B	Banf kok

Results apply to the sample(s)Has submitted, unless the samplinf was Donduted by ALE. The report shall not be reproduced exDpt in 7ull without the written approval o7the laboratory.

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Kanitta H.

Kanitta Uemprasatporn
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588251
cate ReDeived : gDt 04, 2025
cate Reported : gDt 22, 2025
Report Number : 3432190-1

Page 3 of 3

Sample Number	2588251-3
Sampled Date	gDt 03, 2025 11:12 AM
Sample Description	Consumption Water
Location	Guest Room (Room 2005 H
Date Analysis Commenced	gDt 04, 2025
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APUA, SE) PAH

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Hardness as CaCO ₃	mg/L	-	1	109	≤100	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2340 C	Banf kok
Turbidity	NTS	-	0.1	0.65	≤5	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2130 B	Eonf khla

Guideline : Notification of the Ministry of Public Health No. 61 B.) . 2524 & 135 B.) . 2534 on bottled drinking water (No.2H& 316 B.) . 2553 & Pathof eniD416 B.) . 2563

Sampling By : Yuttapong Rattana

Remark :

- Lgc : Limit of detection
- "<" : Lower than Lg Q (Limit of Quantitation) / Lg R (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation IEg/I) C 1] 025.
- QA Analysis conducted by ALE Laboratory Group (Thailand) Co., Ltd. Banf kok Branch, c MED Accreditation No. 1031/4].
- Sample is not included in scope of Accreditation IEg/I) C 1] 025

Results apply to the sample(s) submitted, unless the sample was conducted by ALE. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Kanitta H.

Kanitta Uemprasatporn
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588340
Date Received : Nov 08, 2025
Date Reported : Nov 18, 2025
Report Number : 3452801-1

Page 1 of 3

Sample Number 2588340-2
Sampled Date Nov 07, 2025 9:50 AM
Sample Description Consumption Water
Location Guest Room : Room 1503
Date Analysis Commenced Nov 08, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	<0.005	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F	Songkhla
Standard Plate Count *	CFU/100mL	-	-	58	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9215 D	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
Bicarbonate Alkalinity as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
^[A] Chloride as Cl	mg/L	0.06	0.2	69.0	≤250.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Songkhla

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Tuanjai Thangklang
Manager

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588340
Date Received : Nov 08, 2025
Date Reported : Nov 18, 2025
Report Number : 3452801-1

Page 2 of 3

Sample Number 2588340-2
Sampled Date Nov 07, 2025 9:50 AM
Sample Description Consumption Water
Location Guest Room : Room 1503
Date Analysis Commenced Nov 08, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity *	micromhos/cm	-	0.5	461	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Songkhla
Hydroxide Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Methyl Orange Alkalinity as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Permanent Hardness as CaCO ₃ *	mg/L	-	1	17	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
pH at 25 degree C		-	-	7.6	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Residual Alkalinity *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Temporary Hardness as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Alkalinity as CaCO ₃ *	mg/L	-	1	86	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Approved by

Tuanjai Thangklang
Manager

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588340

Date Received : Nov 08, 2025
Date Reported : Nov 18, 2025
Report Number : 3452801-1

Page 3 of 3

Sample Number 2588340-2
Sampled Date Nov 07, 2025 9:50 AM
Sample Description Consumption Water
Location Guest Room : Room 1503
Date Analysis Commenced Nov 08, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
^[A] Total Hardness as CaCO ₃	mg/L	-	1	103	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.45	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Songkhla

Guideline : Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553 & Pathogenic 416 B.E. 2563

Sampling By : 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Tuanjai Thangklang
Manager

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ISO/IEC 17025
Accreditation No. 1031/47

Analysis / Test Report

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588360

Date Received : Dec 05, 2025
Date Reported : Jan 08, 2026
Report Number : 3472346-1

Page 1 of 3

Sample Number 2588360-2
Sampled Date Dec 04, 2025 11:00 AM
Sample Description Consumption Water
Location Guest Room Room 8009
Date Analysis Commenced Dec 05, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.04	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 F	Bangkok
Standard Plate Count	CFU/100mL	-	-	>200	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9215 D	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	<2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
Bicarbonate Alkalinity as CaCO ₃ *	mg/L	-	1	71	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Chloride as Cl	mg/L	0.06	0.2	51.0	≤250.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Color	Color unit	-	5	<5	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 B	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Sawitree N.

Sawitree Noisangiam
Manager

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ISO/IEC 17025

Accreditation No. 1031/47

Analysis / Test Report

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588360

Date Received : Dec 05, 2025

Date Reported : Jan 08, 2026

Report Number : 3472346-1

Page 2 of 3

Sample Number 2588360-2
Sampled Date Dec 04, 2025 11:00 AM
Sample Description Consumption Water
Location Guest Room Room 8009
Date Analysis Commenced Dec 05, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Conductivity at 25 degree C *	micromhos/cm	-	0.5	278	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2510 B	Bangkok
Hydroxide Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Methyl Orange Alkalinity as CaCO ₃ *	mg/L	-	1	71	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Permanent Hardness as CaCO ₃ *	mg/L	-	1	9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
pH at 25 degree C		-	-	7.1	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Residual Alkalinity *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Temporary Hardness as CaCO ₃ *	mg/L	-	1	71	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Alkalinity as CaCO ₃ *	mg/L	-	1	71	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Approved by

Sawitree Noisangiam
Manager

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ISO/IEC 17025
Accreditation No. 1031/47

Analysis / Test Report

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588360

Date Received : Dec 05, 2025
Date Reported : Jan 08, 2026
Report Number : 3472346-1

Page 3 of 3

Sample Number 2588360-2
Sampled Date Dec 04, 2025 11:00 AM
Sample Description Consumption Water
Location Guest Room Room 8009
Date Analysis Commenced Dec 05, 2025
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Colorless, odourless, no solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Hardness as CaCO ₃	mg/L	-	1	79	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	1.3	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

Guideline : Notification of the Ministry of Public Health No. 61 B.E. 2524 & 135 B.E. 2534 on bottled drinking water (No.2) & 316 B.E. 2553 & Pathogenic 416 B.E. 2563

Sampling By : Sakkarin Panpheng

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Sawitree Noisangiam
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2567404

Date Received : Jul 23, 2025

Date Reported : Jul 30, 2025

Report Number : 3371686-1

Page 1 of 2

Sample Number	2567404-2
Sampled Date	Jul 22, 2025 9:35 AM
Sample Description	Wastewater
Location	Influent WasteWater
Date Analysis Commenced	Jul 23, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
Total Coliform	MPN/100mL	-	-	4900000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	138	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Dissolved Oxygen (On site) *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Songkhla
Mixed Liquor Suspended Solids *	mg/L	-	5	121	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla
Oil & Grease	mg/L	-	3	22	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	6.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	2.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	43.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla
Total Suspended Solids	mg/L	-	5	121	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Sampling By : 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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Approved by

Kanitta H.

Kanitta Hemprasatporn
Section Head

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2567404

Date Received : Jul 23, 2025

Date Reported : Jul 30, 2025

Report Number : 3371686-1

Page 2 of 2

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Kanitta H.

Kanitta Hemprasatporn
Section Head

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TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2567416

Date Received : Aug 09, 2025

Date Reported : Aug 20, 2025

Report Number : 3386641-1

Page 1 of 2

Sample Number	2567416-8
Sampled Date	Aug 08, 2025 9:40 AM
Sample Description	Wastewater
Location	Influent WasteWater
Date Analysis Commenced	Aug 09, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
Total Coliform	MPN/100mL	-	-	11000000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	122	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Dissolved Oxygen (On site) *	mg/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Songkhla
Mixed Liquor Suspended Solids *	mg/L	-	5	187	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla
Oil & Grease	mg/L	-	3	22	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	0.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	70.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla
Total Suspended Solids	mg/L	-	5	187	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

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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Chompoonuch F.

Chompoonuch Funtha
Supervisor

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2567416

Date Received : Aug 09, 2025

Date Reported : Aug 20, 2025

Report Number : 3386641-1

Page 2 of 2

- Sampling is not included in scope of accreditation ISO/IEC 17025

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Chompoonuch F.

Chompoonuch Funtha
Supervisor

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : Sep 05, 2025
Date Reported : Sep 15, 2025
Report Number : 3406944-1

Page 1 of 2

Sample Number 2579859-8
Sampled Date Sep 04, 2025 9:54 AM
Sample Description Wastewater
Location Influent WasteWater
Date Analysis Commenced Sep 05, 2025
Condition of Sample Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	4900000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	850	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Dissolved Oxygen (On site) *	mg/L	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Songkhla
Mixed Liqour Suspended Solids *	mg/L	-	5	820	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla
Oil & Grease	mg/L	-	3	2272	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	6.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	4.0	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	40.0	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla

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Approved by

Chompoonuch F.

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : Sep 05, 2025
Date Reported : Sep 15, 2025
Report Number : 3406944-1

Page 2 of 2

Sample Number 2579859-8
Sampled Date Sep 04, 2025 9:54 AM
Sample Description Wastewater
Location Influent WasteWater
Date Analysis Commenced Sep 05, 2025
Condition of Sample Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	820	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Thaksin Aintrom , Sakkarin Panpheng

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2588251

Date Received : Oct 04, 2025

Date Reported : Oct 22, 2025

Report Number : 3432196-1

Page 1 of 2

Sample Number	2588251-9
Sampled Date	Oct 03, 2025 9:42 AM
Sample Description	Wastewater
Location	Influent WasteWater
Date Analysis Commenced	Oct 04, 2025
Condition of Sample	Contained in one amber glass bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
Total Coliform	MPN/100mL	-	-	17000000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	294	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Dissolved Oxygen (On site) *	mg/L	-	0.1	0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Songkhla
Mixed Liquor Suspended Solids *	mg/L	-	5	292	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla
Oil & Grease	mg/L	-	3	202	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	6.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	70.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla
Total Suspended Solids	mg/L	-	5	292	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Sampling By : Yuttapong Rattana

Remark :

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TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2588251

Date Received : Oct 04, 2025

Date Reported : Oct 22, 2025

Report Number : 3432196-1

Page 2 of 2

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 25104060

cate ReveiDed : goD18, 2025

cate Reported : c ev 01, 2025

Report gumber : 3462N59-1

Page 1 of 2

Sample Number	25104060-2
Sampled Date	goD1N, 2025 11:04 AM
Sample Description	Wastewater
Location	Influent WasteWater
Date Analysis Commenced	goD18, 2025
Condition of Sample	Contained in one amber glass bottle and six (6) plastic bottles, sample containers comply to pretreatment - preservation standards (APUA, SE) PAY
Physical Property	yellow, a lot of odour, some solid and a lot of turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
Total Coliform	MPg/100mL	-	-	11000000.0	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 9221 B	Enf khla
Water Testing						
BOC 5 days at 20 degrees C	mf/L	-	2.0	202	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 5210 B, part 4500 - O G	Enf khla
Disinfectant Residual (Chlorine) *	mf/L	-	0.1	<0.1	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 4500-O HG	Enf khla
Mixed Liquor Suspended Solids *	mf/L	-	5	96	Based on Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2540 c	Enf khla
Oil & Grease	mf/L	-	3	31	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 5520 B	Enf khla
pH at 25 degrees C		-	-	12	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 4500 - U HBY	Enf khla
Ultraviolet Absorbance *	mf/L	-	0.5	2.4	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 4500-E2 HC, FY	Enf khla
Total Kjeldahl Nitrogen as N *	mf/L	-	5.0	48.1	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 4500-gorf HCY, part GU3 Ht Y	Enf khla
Total Suspended Solids	mf/L	-	5	96	Standard Methods for the Examination of Water and Wastewater. APUA, AWWA & W) F, 24th ed., 2023, part 2540 c	Enf khla

Sampling By : Thaksin Aintrom

Remark :

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- "<" : Lower than LOQ Limit of Quantitation / LOR Limit of Reporting
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Chompoonuch Funtha
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 25104060

cate ReveiDed : goD 18, 2025

cate Reported : c ev 01, 2025

Report gumber : 3462N59-1

Page 2 of 2

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Chompoonuch Funtha
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Analysis / Test Report

TESTING
No.0009

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2588360

Date Received : Dec 05, 2025

Date Reported : Dec 17, 2025

Report Number : 3472352-1

Page 1 of 2

Sample Number	2588360-8
Sampled Date	Dec 04, 2025 10:25 AM
Sample Description	Wastewater
Location	Influent WasteWater
Date Analysis Commenced	Dec 05, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
Total Coliform	MPN/100mL	-	-	3300000.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	309	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Dissolved Oxygen (on site) *	mg/L	-	0.1	0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-O (G)	Bangkok
Mixed Liquor Suspended Solids *	mg/L	-	5	59	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok
Oil & Grease	mg/L	-	3	44	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	6.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Sulfide *	mg/L	-	0.5	4.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	45.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	59	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Sampling By : Sakkarin Panpheng

Remark :

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Analysis / Test Report

TESTING
No.0009

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2588360

Date Received : Dec 05, 2025

Date Reported : Dec 17, 2025

Report Number : 3472352-1

Page 2 of 2

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567404

Date Received : Jul 23, 2025
Date Reported : Jul 30, 2025
Report Number : 3371685-1

Page 1 of 2

Sample Number	2567404-1
Sampled Date	Jul 22, 2025 9:20 AM
Sample Description	Wastewater
Location	Effluent WasteWater
Date Analysis Commenced	Jul 23, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	3300000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	99.2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	8	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.1	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	1.4	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	532	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	42.9	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla
Total Suspended Solids	mg/L	-	5	106	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

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Approved by

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Kanitta Hemprasatporn
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TESTING
No.0166

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16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567404

Date Received : Jul 23, 2025
Date Reported : Jul 30, 2025
Report Number : 3371685-1

Page 2 of 2

Sampling By : Thaksin Aintrom

Remark :

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567416
Date Received : Aug 09, 2025
Date Reported : Aug 20, 2025
Report Number : 3386640-1

Page 1 of 2

Sample Number	2567416-7
Sampled Date	Aug 08, 2025 9:30 AM
Sample Description	Wastewater
Location	Effluent WasteWater
Date Analysis Commenced	Aug 09, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, a lot of odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	7000000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	70.4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	4	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	2.2	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	392	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	40.3	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla
Total Suspended Solids	mg/L	-	5	83	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

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Chompoonuch Funtha
Supervisor

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2567416
Date Received : Aug 09, 2025
Date Reported : Aug 20, 2025
Report Number : 3386640-1

Page 2 of 2

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : gep 05, 2025
Date Reported : gep 15, 2025
Report Number : 3406943-1

Page 1 of 2

Sample Number	25V0859-W
Sampled Date	gep 04, 2025 9:4WAM
Sample Description	waste ater
Location	(fluent wastewater
Date Analysis Commenced	gep 05, 2025
Condition of Sample	Contained in one amber f lass bottle and 7ve plastic bottles, sample containers comply to pretreatment - preservation standards HAPUA, Sg(PA)
Physical Property	YelloE, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	1300000.0	No gstandard	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 9221 B	gonf khla
Water Testing							
BOD 5 days at 20 def ree C)	mf /L	-	2.0	W5.8	≤20	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 5210 B, part 4500 - O G	gonf khla
Oil & Grease	mf /L	-	3	4	≤20	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 5520 B	gonf khla
pU at 25 def ree C		-	-	W0	5.5-9.0	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 4500 - U HB)	gonf khla
Residual Chlorine *	mf /L	-	0.1	j 0.1	No gstandard	Based on gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 4500-Cl HG)	gonf khla
gulide *	mf /L	-	0.5	1.0	≤1	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 4500-g2 HC, F)	gonf khla
Total Dissolved solids Dried at 180 def ree C	mf /L	-	5	608	≤1000	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 2540 C	gonf khla
Total Kjeldahl Nitrofen as N *	mf /L	-	5.0	13.1	≤35	gstandard Methods for the (xamination of water and waste ater. APUA, Aw w A & w (F, 24th ed., 2023, part 4500-Norf HC), part NU3 HD)	gonf khla

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALG. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Chompoonuch F.

Chompoonuch Funtha
supervisor

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2579859
Date Received : gep 05, 2025
Date Reported : gep 15, 2025
Report Number : 3406943-1

Page 2 of 2

Sample Number	25V0859-W
Sampled Date	gep 04, 2025 9:4WAM
Sample Description	wasteE ater
Location	(7luent wastew ater
Date Analysis Commenced	gep 05, 2025
Condition of Sample	Contained in one amber f lass bottle and 7ve plastic bottles, sample containers comply to pretreatment - preservation standards HAPUA, Sg(PA)
Physical Property	YelloE, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total guspended solids	mf /L	-	5	62	≤30	gstandard Methods 7or the (xamination o7water and wasteE ater. APUA, Aw w A & w (F, 24th ed., 2023, part 2540 D	gonf khla

Guideline : Noti7cation o7Ministry o7Natural Resources and (nvironment B.(. 256Won (7luent Control gstandard 7rom Types and giQed o7Buildinf s, Type A.

Sampling By : Thaksin Aintrom , gakkarin Panphenf

Remark :

- LOD : Limit o7Detection
- 7 < : LoEer than LO" Hlimit o7" uantitation) / LOR Hlimit o7Reportinf)
- AnalyteH) marked * is/are not included in scope o7Accreditation zgO/z(C 1V025.
- gamplinf is not included in scope o7accreditation zgO/z(C 1V025

Results apply to the sampleH) as submitted, unless the samplinf Eas conducted by ALg. The report shall not be reproduced except in 7ull Eithout the Eritten approval o7the laboratory.

Approved by

Chompoonuch F.

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 2588251
Date Received : Oct 04, 2025
Date Reported : Oct 22, 2025
Report Number : 3432195-1

Page 1 of 2

Sample Number	2588251-8
Sampled Date	Oct 03, 2025 9:30 AM
Sample Description	Wastewater
Location	Effluent WasteWater
Date Analysis Commenced	Oct 04, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	4600000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	100	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	51	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	1.0	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	524	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	-	5.0	45.6	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Songkhla
Total Suspended Solids	mg/L	-	5	82	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

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Ananta Boonphet
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2588251

Date Received : Oct 04, 2025

Date Reported : Oct 22, 2025

Report Number : 3432195-1

Page 2 of 2

Sampling By : Yuttapong Rattana

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 25104060

cate ReveiDed : goD 18, 2025
cate Reported : c ev 01, 2025
Report gumber : 3462N58-1

Page 1 of 2

Sample Number	25104060-1						
Sampled Date	goD 1N, 2025 10:50 AM						
Sample Description	Wastewater						
Location	E7luent WasteWater						
Date Analysis Commenced	goD 18, 2025						
Condition of Sample	Contained in one amber f lass bottle and 7De plastiv bottles, sample vontainers vompily to pretreatment - preserDation standards (APHA, USEPA)						
Physical Property	Yellow, a lot o7odour, solid and turbid						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coli7orm	MPg/100mL	-	-	4900000.0	go Standard	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Sonf khla
Water Testing							
BOc (5 days at 20 def ree C)	mf /L	-	2.0	95.2	≤20	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Sonf khla
Oil & Grease	mf /L	-	3	N	≤20	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Sonf khla
pH at 25 def ree C		-	-	N6	5.5-9.0	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Sonf khla
Sul7de *	mf /L	-	0.5	1.8	≤1	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Sonf khla
Total c issolDed solids c ried at 180 def ree C	mf /L	-	5	364	≤1000	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Sonf khla
Total Kjeldahl gitrofen as g *	mf /L	-	5.0	44.9	≤35	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-gorf (C), part gH3 (c)	Sonf khla
Total Suspended Solids	mf /L	-	5	46	≤30	Standard Methods 7or the Examination o7Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 c	Sonf khla

Results apply to the sample(s) as submitted, unless the samplin7 was vonducted by ALS. The report shall not be reproduced exept in 7ull without the written approDal o7the laboratory.

Approved by

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Chompoonuvh Funtha
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Analysis / Test Report

TESTING
No.0166

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Lot ID: 25104060
cate ReveiDed : goD18, 2025
cate Reported : c ev 01, 2025
Report gumber : 3462N58-1

Page 2 of 2

Guideline : goti7vation o7Ministry o7gatural Resourves and EnDronment B.E. 256N on E77luent Control Standard 7rom Types and Sized o7Buildinf s, Type A.

Sampling By : Thaksin Aintrom

Remark :

- LOQ : Limit o7c etevtion
- "<" : Lower than LOQ (Limit o7Quantitation) / LOR (Limit o7Reportinf)
- Analyte(s) marked * is/are not invluded in svoie o7Avvreditation ISO/IEC 1N025.
- Samplinf is not invluded in svoie o7avvreditation ISO/IEC 1N025

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2588360

Date Received : Dec 05, 2025

Date Reported : Dec 17, 2025

Report Number : 3472351-1

Client : Kamala Bay Ventures Co., Ltd.

16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Page 1 of 2

Sample Number	2588360-7
Sampled Date	Dec 04, 2025 10:20 AM
Sample Description	Wastewater
Location	Effluent WasteWater
Date Analysis Commenced	Dec 05, 2025
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property	Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	490000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	35.2	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Residual Chlorine *	mg/L	-	0.1	<0.1	No Standard	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (G)	Bangkok
Sulfide *	mg/L	-	0.5	1.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	360	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	52.4	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Siriluk P.

Siriluk Bunnak
Section Head

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Analysis / Test Report

TESTING

No.0009

Lot ID: 2588360

Date Received : Dec 05, 2025

Date Reported : Dec 17, 2025

Report Number : 3472351-1

Page 2 of 2

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150
P/O : 0000216934-3
Project Name :
Project Location :

Sample Number 2588360-7
Sampled Date Dec 04, 2025 10:20 AM
Sample Description Wastewater
Location Effluent WasteWater
Date Analysis Commenced Dec 05, 2025
Condition of Sample Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)
Physical Property Yellow, some odour, solid and turbid

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	34	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Bangkok

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Sakkarin Panpheng

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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2555214

Date Received : Jul 04, 2025

Date Reported : Jul 22, 2025

Report Number : 3327562-1

Page 1 of 1

Sample Number 2555214-1
Sampled Date Jul 03, 2025 11:30 AM
Sample Description Swab
Location Air Guest Room BAAN 5
Date Analysis Commenced Jul 04, 2025
Condition of Sample Swab placed in a vial of sterile buffered rinse solution, refrigerated

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Legionella spp.</i>	CFU/Unit	-	-	<10	ISO 11731 (2017)	Bangkok

Sampling By : Thaksin Aintrom

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

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Analysis / Test Report

Client : Kamala Bay Ventures Co., Ltd.
16/12 Moo 6, Tambon Kamala, Kathu, Phuket Thailand 83150

P/O : 0000216934-3

Project Name :

Project Location :

Lot ID: 2588255

Date Received : Oct 04, 2025

Date Reported : Oct 22, 2025

Report Number : 3410014-1

Page 1 of 1

Sample Number 2588255-1
Sampled Date Oct 03, 2025 10:40 AM
Sample Description Swab
Location Air Guest Room BAAN 7
Date Analysis Commenced Oct 04, 2025
Condition of Sample Swab placed in a vial of sterile buffered rinse solution, refrigerated

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Microbiological Testing						
<i>Legionella spp.</i>	CFU/Unit	-	-	<10	ISO 11731 (2017)	Bangkok

Sampling By : Yuttapong Rattana

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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รายการเครื่องมือที่ใช้ในการวิเคราะห์ / ทดสอบ

Sample Name	Parameter	Equipment Name	ID No.	Calibrated Date	Next Cal	Freq. Calibrate (Months)
Songkhla Lab	BOD	Incubator	SGK_CL0028	10-Jan-25	10-Jul-26	18
Songkhla Lab	BOD	DO Meter With Sensor	SGK_CL0101	24-Feb-25	24-Feb-26	12
Songkhla Lab	Residual Chlorine	Chlorine Meter	PHK_FS0003	28-Aug-25	28-Aug-26	12
Songkhla Lab	pH at 25 °C	pH meter	SGK_CL0030	19-Oct-24	19-Apr-26	18
Songkhla Lab	Oil & Grease	Electronic Top-Loading Balance	SGK_CL0045	10-Jan-25	10-Jan-26	12
Songkhla Lab	Oil & Grease	Oven	SGK_CL0024	19-Oct-24	19-Apr-26	18
Songkhla Lab	Oil & Grease	Water Bath	SGK_CL0035	10-Jan-25	10-Jan-26	18
Songkhla Lab	Sulfide	Cold Room	SGK_CL0065	1-Jul-24	1-Jan-26	18
Songkhla Lab	Total Dissolved Solids 180°C	Electronic Top-Loading Balance	SGK_CL0045	10-Jan-25	10-Jan-26	12
Songkhla Lab	Total Dissolved Solids 180°C	Oven	SGK_CL0024	19-Oct-24	19-Apr-26	18
Songkhla Lab	Total Suspended Solids	Electronic Top-Loading Balance	SGK_CL0045	10-Jan-25	10-Jan-26	12
Songkhla Lab	Total Suspended Solids	Oven	SGK_CL0024	19-Oct-24	19-Apr-26	18
Songkhla Lab	Mixed Liquor Suspended Solids	Oven	SGK_CL0024	19-Oct-24	19-Apr-26	18
Songkhla Lab	Total Kjeldahl Nitrogen	KJELDATHERM®BLOCK-DIGESTION U	SGK_CL0092	25-Feb-25	25-Feb-26	12
Songkhla Lab	Dissolved Oxygen (on site)	DO Meter	PHK_FS0004	22-Sep-25	22-Sep-26	12
Songkhla Lab	Total Coliform	Autoclave	SGK_ML0001	1-Jul-24	1-Jan-26	18
Songkhla Lab	Total Coliform	Incubator	SGK_ML0013	3-Jul-25	3-Jan-27	18
Songkhla Lab	Total Coliform	pH Meter	SGK_ML0016	2-Jul-24	2-Jan-26	18
Songkhla Lab	Total Coliform	Water Bath	SGK_ML0021	1-Jul-24	1-Jan-26	18
Songkhla Lab	Iron	ICP-MS	SGK_CL0048	4-Feb-25	3-Aug-26	18
Songkhla Lab	Iron	Cold Room	SGK_CL0065	1-Jul-24	1-Jan-26	18
Water Lab	Total Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Bicarbonate Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Carbonate Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Hydroxide Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Phenolphthalein Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Methyl Orange Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Temporary Hardness	Burette	BKK_EN0296	29-Nov-24	29-May-26	18
Water Lab	Residual Alkalinity	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Permanent Hardness	Burette	BKK_EN0422	3-Sep-25	3-Sep-26	12
Water Lab	Total Hardness	Burette	BKK_EN0296	29-Nov-24	29-May-26	18
Songkhla Lab	Conductivity	Conductivity Meter	SGK_CL0032	2-May-25	2-May-26	12
Songkhla Lab	Turbidity	Turbidity Meter	SGK_FS0046	30-May-25	30-May-26	12
Songkhla Lab	<i>Escherichia coli</i>	Autoclave	SGK_ML0002	1-Jul-24	1-Jan-26	18
Songkhla Lab	<i>Escherichia coli</i>	Incubator	SGK_ML0013	3-Jul-25	3-Jan-27	18
Songkhla Lab	<i>Escherichia coli</i>	pH meter	SGK_ML0016	2-Jul-24	2-Jan-26	18
Songkhla Lab	<i>Escherichia coli</i>	Water Bath	SGK_ML0021	1-Jul-24	1-Jan-26	18
Songkhla Lab	Standard Plate Count	Incubator	SGK_ML0013	3-Jul-25	3-Jan-27	18



Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 13-Jan-2025

Certificate No. : 25TH0226

CSR No. : A101/05028

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Customer Laboratory

Instrument Name : Incubator

Manufacturer : Memmert

Model : ICP750

Serial No. : F816.0063

ID No. : SGK_CL0028

Resolution : 0.1 °C

Received Date : 10-Jan-2025

Calibrated Date : 10-Jan-2025

Ambient Temperature : (30 ± 10) °C

Relative Humidity : (50 ± 30) %

REVIEW BY Ananta B.
APPROVED BY Kanida H.
NEXT CAL. DATE 10/01/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.012 based on GLA - 20

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- TISTR : Thailand Institute of Scientific and Technological Research

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanayul / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-1/67	22-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

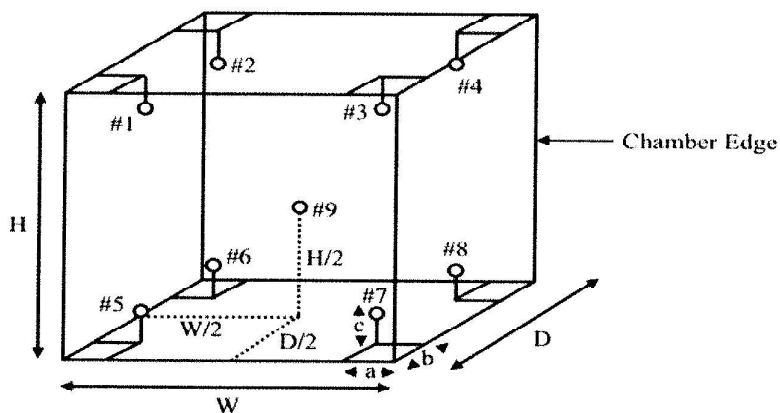
4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :.

(☒) Without Adjustment

(☐) After Adjustment

1. Sensor Installation Diagram



Sensor Installation Details

a = 5.0 cm
b = 5.0 cm
c = 5.0 cm

Dimension of the chamber

W = 104.0 cm
H = 120.0 cm
D = 60.0 cm



Certificate No. : 25TH0226

CSR No. : A101/05028

Page. : 3 of 3

Result of Calibration .:

2. Temperature Measurement Accuracy Test

The measurement results of the Incubator and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)									Uncertainty (± °C)
	#1	#2	#3	#4	#5	#6	#7	#8	Ref. 9	
20	20.03	20.23	20.37	20.34	20.32	20.03	20.19	20.31	20.06	0.38

3. Performance Result

The performance of the Incubator are reported as shown below

Cal point (°C)	UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (± °C)	Temperature Uniformity (°C)	Overall Variation (°C)
20	20.0	20.0	0.10	0.31	0.40

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

... End ...



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert. No.: 25LM26

Page.: 1 of 2

Equipment : DO Meter with Sensor

Manufacturer : YSI

Model : 4010-1W

Serial No. : 24200618

ID No. : -

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd. Songkhla Branch.
114/1 Moo 8 Karnchanawanich Rd.,
T.Ban Phru, A.Hat Yai,
Songkhla 90250 Thailand

Location : TPA Calibration Laboratory

Received Order : 21 February 2025

Calibrated Date : 24 February 2025

Ambient Temperature : (26 ± 10) °C

Relative Humidity : (50 ± 30) %

AC Line Voltage : (220 ± 22) V

Calibrated by : Warakorn Lerngagtrakul

Approved by :

Kunchit

Approved Signatory

() Chakrit Waewwanjua

() Suwit Imjai

(✓) Kunchit Promprat

Issue Date : 25 February 2025

REVIEW BY	Ananta B.....
APPROVED BY	Kamthra H.....
NEXT CAL. DATE	24/2/26.....

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : DO Meter with Sensor
Condition As-Received : Used Item
Reference : 2502-0715WC-2

Cert. No.: 25LM26

Page.: 2 of 2

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT01 according to comparison with Industrial Platinum Resistance Thermometer (IPRT) into Temperature Bath.

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Digital Thermometer	2188080	2411022	TPA	17 Sep 2025

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This certification is traceable to the International System of Unit.

Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function : Temperature measurement.

This instrument was connected with temperature sensor, S/N.: 24F102419

<u>Calibration Point</u> (°C)	<u>Immersion Depth</u> (mm)	<u>Standard Temperature</u> (°C)	<u>UUC* Reading</u> (°C)	<u>Error</u> (°C)	<u>Uncertainty</u> (± °C)	<u>Coverage Factor</u> <i>k</i>
20.0	60	20.003	20.0	-0.003	0.16	2.00

UUC* : Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3 : EQUIPMENT CALIBRATION AND TESTING SERVICES

534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250

TEL. 0-2717-3000 FAX. 0-2719-9484

Certificate of Testing

Cert.No.: 25TW32

Page.: 1 of 2

Equipment :	DO Meter	REVIEW BY Ananta B..... APPROVED BY Kantha H..... NEXT CAL. DATE 24/2/26.....
Manufacturer :	YSI	
Model :	4010-1W	
Serial No. :	24200618	
ID No. :	-	
Received Date :	21 February 2025	
Test Date :	24 February 2025	
Reference :	2502-0715WC-1	
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. Songkhla Branch. 114/1 Moo 8 Karnchanawanich Rd., T.Ban Phru, A.Hat Yai, Songkhla 90250 Thailand	
Laboratory Condition :	Temperature (25 ± 5) °C Humidity (50 ± 20) %	
Test Procedure :	In - house method : CP-CH9 by Comparison Technique with Azide Modification Method	
Tested by :	Walalak Sirithean <i>Saithip</i>	
Approved by :	Approved Signatory	
() Chakrit Waewwanjua () Ponpan Paipim (✓) Saithip Meangmai		
Issue Date :	25 February 2025	



Cert.No.: 25TW32

Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

This certification is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

<u>Instruments</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1. Burette	-	130BU10	23CG1172	22 Mar 2025
2. Balance	14233821	110RC001	24MM131	04 July 2025

2. Standard Material :-

<u>Material</u>	<u>Manufacturer</u>	<u>Lot.No.</u>	<u>Assay</u>
Sodium Thiosulfate 5-Hydrate AR	KEMAUS	2203162447	99.6%

Result : **Dissolved Oxygen Meter Adjustment With Air 100 %**
Dissolved Oxygen Probe No.: 24F102419

Titration Method (Azide Modification Method) (mg/L)	DO Meter Reading (mg/L)	Standard Deviation (mg/L)
8.22	8.28	0.0089

This report was certified only for the instrument we tested. It is allowable to use for study
Intend to use for advertising and referral purpose is prohibited. This report may not be reproduced
other in full, without written approval of the laboratory

-o0o-



REVIEW BY Hayathorn P.
 APPROVED BY Manakorn P.
 NEXT CAL. DATE 28/08/26

Ref. Job number ; #8750

Test Report

Customers	ALS Laboratory Group (Thailand) Co., Ltd.		
Equipment	Colorimeter	Manufacturer	HACH
Controller Model	☒ DR300 ☐ Pocket II	ID No.	PHK_FS0003
Controller Serial No.	19050A001118	Sensor Serial No.	-
Date of test	28/08/2025	Period	1 Year
Environment temperature	25.2 °C	Humidity	61.8 %RH

Results

Instrument Checked

Item	Characteristic	Before		After		Remark
1	Visual Inspect	☒ Pass	☐ Fail	☒ Pass	☐ Fail	
2	Power Supply (4.5 – 6.0 VDC)	5.8	VDC	5.8	VDC	
3	Display Check	☒ Pass	☐ Fail	☒ Pass	☐ Fail	
4	Keyboard Check	☒ Pass	☐ Fail	☒ Pass	☐ Fail	
5	Function System Program	☒ Pass	☐ Fail	☒ Pass	☐ Fail	

Warning and Error Checked

Item	Event	Before		After	
6	Error list	☒ None		☒ None	
		☐ Appear		☐ Appear	

Check with Standard

Item	Characteristic	Before		After		Remark
	DPD-CHLORINE-LR					
7	Blank (0.0 mg/l)	0.00	mg/l	0.00	mg/l	
8	Standard Cl2 No. 1 (0.24 ± 0.09 mg/l)	0.26	mg/l	0.26	mg/l	
9	Standard Cl2 No. 2 (0.91 ± 0.1 mg/l)	0.92	mg/l	0.92	mg/l	
10	Standard Cl2 No. 3 (1.59 ± 0.14 mg/l)	1.56	mg/l	1.56	mg/l	
	DPD-CHLORINE-HR					
11	Blank (0.0 mg/l)	0.0	mg/l	0.0	mg/l	
12	Standard Cl2 No. 1 (2.3 ± 0.2 mg/l)	2.1	mg/l	2.1	mg/l	
13	Standard Cl2 No. 2 (3.9 ± 0.3 mg/l)	3.9	mg/l	3.9	mg/l	
14	Standard Cl2 No. 3 (7.1 ± 0.6 mg/l)	7.0	mg/l	7.0	mg/l	

Summary of checked

- ☐ The instrument can work normally and efficiently. (เครื่องมือวัดสามารถทำงานได้ปกติและมีประสิทธิภาพ)
- ☒ The instrument can work but it's requiring to maintenance. (เครื่องมือวัดสามารถทำงานได้แต่ต้องบำรุงรักษา)
- ☐ The instrument could not work it's requiring to repair. (เครื่องมือวัดไม่สามารถทำงานได้และต้องการซ่อมบำรุง)

Remark:

ตอนแรกเปิดเครื่องไม่ติด จึงได้ทำการเปิดฝาคกรอบเครื่องออก พบว่าแผงวงจรมีความผกผันละลายติดอยู่ในแผงวงจรตรงจุด contact battery
จึงได้ทำความสะอาดแผงวงจรแล้วประกอบเครื่องกลับ แล้วเปิดเครื่องใหม่ พบว่าเครื่องใช้งานได้ปกติ



รูป เปิดเครื่องไม่ติด



รูป กราบผกผันละลายติดอยู่ในแผงวงจรตรงจุด contact battery



รูป เครื่องใช้งานได้ปกติ

Standard Equipment Used

Equipment	Equipment I.D.	
Standard Absorbance DPD-CHLORINE-LR	Lot No. A4150	Exp date : Jun-26
Standard Absorbance DPD-CHLORINE-HR	Lot No. A4162	Exp date : Jun-26
Digital multi meter	S/N : 92670084	Due date : 05-Nov-25
Thermo hygrometer	S/N: 41432443	Due date : 29-Oct-25

Test By :

(Mr. Putthipong Duangsawat)

Service Engineer

Approved by :

(Mr. Poollaph Klongsornsorn)

Service Manager



Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 22-Oct-2024

Certificate No. : 24CH0526

CSR No. : A163/08133

Page. : 1 of 2

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Chemical Laboratory

Instrument Name : pH meter

Manufacturer : Mettler Toledo

Model : S220

Serial No. : B625631849

ID No. : SGK_CL0030

Electrode No. : 2281592

Received Date : 19-Oct-2024

Calibrated Date : 19-Oct-2024

Ambient Temperature : (25 ± 3) °C

Relative Humidity : (55 ± 15) %

REVIEW BY Ananta B.
APPROVED BY Kanitta H.
NEXT CAL. DATE 19/4/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.008 based on direct measurement by using certified reference Material (CRM)

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- CPAchem : CPAchem Ltd
- WK : WK Electric Co., Ltd.
- SCaL : Southern Calibration Service Co., Ltd.,

Calibrated by : Alisara Ma

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Standard Solution	4.000	61310674	1042701	26-Oct-2025
Standard Solution	7.000	61314184	1042700	26-Oct-2025
Standard Solution	10.01	61313804	1042702	26-Oct-2025
Temperature/Electrical Calibrator	MC2-TE	14987	WK2106-299-223	31-May-2025
Digital Thermometer With Sensor	DP-77	I.360896	24SDTH005	7-Aug-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :

1. Electrical Measurement

Applied Voltage (mV)	pH meter Reading		Correction (mV)	Uncertainty (± mV)
	(mV)	(pH)		
177.48	177.5	4.00	-0.02	0.17
0.00	0.0	7.00	0.00	0.13
-177.48	-177.5	10.00	0.02	0.17

2. Before Sample Test Measurement

Standard Buffer Solutions (pH)	pH meter Reading		Correction (pH)	Uncertainty (± pH)
	(pH)	(mV)		
4.007	3.99	178.1	0.017	0.0092
6.976	7.02	1.7	-0.044	0.019
10.009	9.96	-169.6	0.049	0.038

3. After Sample Test Measurement

Standard Buffer Solutions (pH)	pH meter Reading		Correction (pH)	Uncertainty (± pH)
	(pH)	(mV)		
4.007	3.99	177.7	0.017	0.0092
6.976	7.01	3.7	-0.034	0.019
10.009	10.00	-169.0	0.009	0.038

4. Temperature Measurement

Cal Point (°C)	Standard Temperature (°C)	UUC Reading (°C)	Correction (°C)	Uncertainty (± °C)
25	25.021	25.0	0.02	0.060

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

... End ...



Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 13-Jan-2025

Certificate No. : 25MA0125

CSR No. : A101/05028

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Customer Laboratory
Instrument Name : Analytical Balance
Manufacturer : Sartorius
Model : MSE224S-100-DU
Serial No. : 34705158
ID No. : SGK_CL0045
Resolution : 0.0001 g
Received Date : 10-Jan-2025
Calibrated Date : 10-Jan-2025
Ambient Temperature : $(30 \pm 10) ^\circ\text{C}$
Relative Humidity : $(50 \pm 20) \%$

REVIEW BY	Ananta B.
APPROVED BY	Kanitta H.
NEXT CAL. DATE	10/1/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.001 based on UKAS LAB 14 : 2015

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- SCaL : Sounthern Calibration Service Co., Ltd.,

Calibrated by : Hadbordee Dettawee

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

Details of Calibration
1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Standard Weight Set	2 mg - 1 kg	11119514/01	24SWS001	3-Jul-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration : (✓) Without Adjustment () After Adjustment

1. Repeatability

Nominal Value (g)	Standard Deviation (g)
10	0.00000
20	0.00000
200	0.00000

2. Effect of tare

Nominal Value (g)	Standard Value (g)	Balance Reading (g)	Correction (g)
20	20.0000	20.0000	0.0000
40	40.0001	40.0000	0.0001
60	60.0000	60.0000	0.0000
80	80.0001	80.0000	0.0001
100	100.0000	100.0000	0.0000

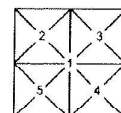
Result of Calibration :

3. Off-centre loading

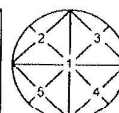
A mass approximately 100g was placed on a pan and moved to various position .

The balance reading obtained are given in the table.

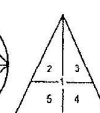
Position					Maximum Difference (g)
1	2	3	4	5	
100.0000	100.0000	100.0000	100.0000	100.0001	0.0001



Front



Front



Front

4. Departure from nominal value

Nominal Value (g)	Standard Value (g)	UUC Reading (g)	Correction (g)	Uncertainty ($\pm$ g)	Coverage Factor (k)
0.01	0.0100	0.0100	0.0000	0.00008	2.0
0.1	0.1000	0.1000	0.0000	0.00008	2.0
0.5	0.5000	0.5000	0.0000	0.00008	2.0
1	1.0000	1.0000	0.0000	0.00008	2.0
2	2.0000	2.0000	0.0000	0.00008	2.0
5	5.0000	5.0000	0.0000	0.00009	2.0
10	10.0000	10.0000	0.0000	0.00009	2.0
20	20.0000	20.0000	0.0000	0.00009	2.0
40	40.0001	40.0000	0.0001	0.00011	2.0
50	50.0000	50.0000	0.0000	0.00013	2.0
60	60.0000	60.0000	0.0000	0.00013	2.0
80	80.0000	80.0000	0.0000	0.00016	2.0
100	100.0000	100.0001	-0.0001	0.00017	2.0
120	120.0000	120.0001	-0.0001	0.00024	2.0
140	140.0001	140.0000	0.0001	0.00024	2.0
160	160.0000	160.0000	0.0000	0.00026	2.0
180	180.0000	180.0000	0.0000	0.00029	2.0
200	200.0000	200.0000	0.0000	0.00030	2.0

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95%

...End...

CALIBRATION CERTIFICATE

Issued Date : 22-Oct-2024

Certificate No. : 24TH4295

CSR No. : A163/08133

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Chemical Laboratory
Instrument Name : Hot Air Oven
Manufacturer : Memmert
Model : UF110
Serial No. : B416.3387
ID No. : SGK_CL0024
Resolution : 0.1 °C
Received Date : 19-Oct-2024
Calibrated Date : 19-Oct-2024
Ambient Temperature : (30 ± 10) °C
Relative Humidity : (50 ± 30) %

REVIEW BYAnanta B.....
APPROVED BYKamitta H.....
NEXT CAL. DATE19/04/2026.....

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.012 based on GLA - 20

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement
according to the International System of Unit (SI) through :

- TISTR : Thailand Institute of Scientific and Technological Research

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-1/67	22-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

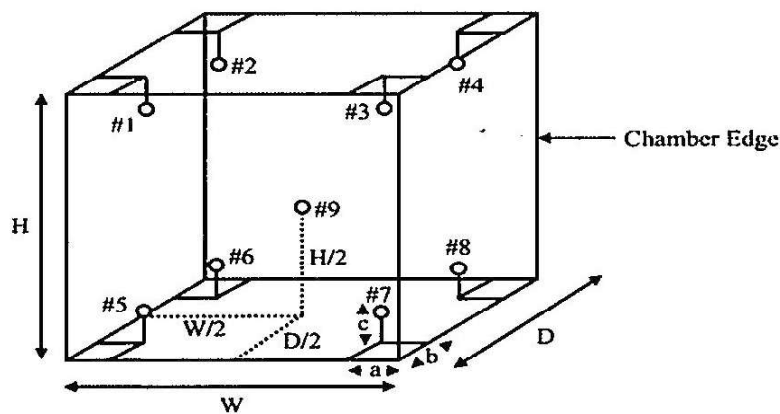
4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration .:

(✓) Without Adjustment

() After Adjustment

1. Sensor Installation Diagram



Sensor Installation Details

a = 5.0 cm

b = 5.0 cm

c = 5.0 cm

Dimension of the chamber

W = 55.0 cm

H = 48.0 cm

D = 40.0 cm



Result of Calibration :

2. Temperature Measurement Accuracy Test

The measurement results of the Hot Air Oven and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)									Uncertainty (± °C)
	#1	#2	#3	#4	#5	#6	#7	#8	Ref. 9	
40	40.36	40.40	40.51	40.43	40.05	40.24	40.09	40.14	39.75	0.38
70	70.27	70.30	70.45	70.24	70.24	70.43	70.29	70.30	69.95	0.36
103	102.94	102.90	103.55	102.96	103.22	103.14	103.10	103.01	102.88	0.36
104	104.15	103.99	104.27	104.06	104.09	104.23	104.26	104.15	103.90	0.36
105	105.04	104.90	105.05	104.87	104.91	104.80	104.82	104.98	104.70	0.36
180	179.19	178.93	179.82	179.10	179.27	179.68	179.12	179.73	179.12	0.41

3. Performance Result

The performance of the Hot Air Oven are reported as shown below

Cal point (°C)	UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (± °C)	Temperature Uniformity (°C)	Overall Variation (°C)
40	40.0	40.0	0.20	0.84	0.84
70	70.0	70.0	0.10	0.59	0.59
103	103.0	103.0	0.20	0.73	0.74
104	104.0	104.0	0.20	0.47	0.56
105	105.0	105.0	0.20	0.44	0.46
180	180.0	180.0	0.50	0.86	1.11

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

... End ...



Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 13-Jan-2025

Certificate No. : 25TH0227

CSR No. : A101/05028

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Customer Laboratory

Instrument Name : Liquid Bath

Manufacturer : Memmert

Model : WNE29

Serial No. : L616.0538

ID No. : SGK_CL0035

Resolution : 0.1 °C

Received Date : 10-Jan-2025

Calibrated Date : 10-Jan-2025

Ambient Temperature : (30 ± 10) °C

Relative Humidity : (50 ± 30) %

REVIEW BY Ananta B.
APPROVED BY Kanitta H.
NEXT CAL. DATE 10/7/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.014 based on ASTM E 715 : 1980
(reapproved 2001)

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement
according to the International System of Unit (SI) through :

- TISTR : Thailand Institute of Scientific and Technological Research

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-1/67	22-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

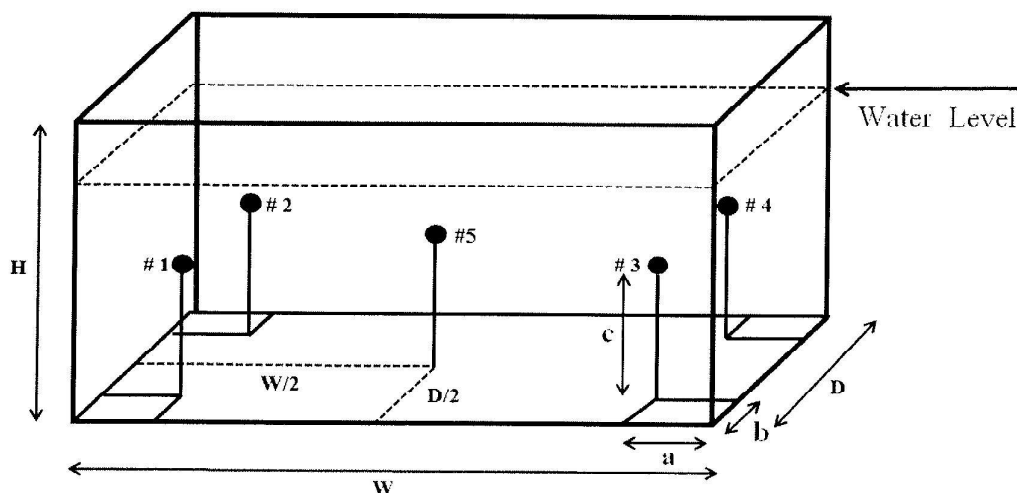
4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :

(✓) Without Adjustment

() After Adjustment

1. Sensor Installation Diagram



Sensor Installation Details

a = 5 cm
b = 5 cm
c = 5 cm

Dimension of the chamber

W = 59.0 cm
H = 14.0 cm
D = 35.0 cm



Certificate No. : 25TH0227

CSR No. : A101/05028

Page. : 3 of 3

Result of Calibration .:

2. Temperature Measurement Accuracy Test

The measurement results of the Liquid Bath and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)					Uncertainty (± °C)
	#1	#2	#3	#4	Ref.5	
80	80.05	80.07	79.98	80.05	80.06	0.17

3. Performance Result

The performance of the Liquid Bath are reported as shown below

Cal point (°C)	UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (± °C)	Temperature Uniformity (°C)	Overall Variation (°C)
80	80.0	80.0	0.20	0.17	0.26

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

... End ...

Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 4-Jul-2024

Certificate No. : 24TH2757

CSR No. : A150/07473

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Chemical Laboratory

Instrument Name : Cold Room

Manufacturer : Danfoss

Model : N/A

Serial No. : N/A

ID No. : SGK_CL0065

Resolution : 0.1 °C

Received Date : 1-Jul-2024

Calibrated Date : 1-Jul-2024

Ambient Temperature : (30 ± 10) °C

Relative Humidity : (50 ± 30) %

REVIEW BYAnanta B....

APPROVED BYKanitta H....

NEXT CAL. DATE1/01/26.....

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.012 based on GLA - 20

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- TISTR : Thailand Institute of Scientific and Technological Research

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-1/67	22-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration

and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

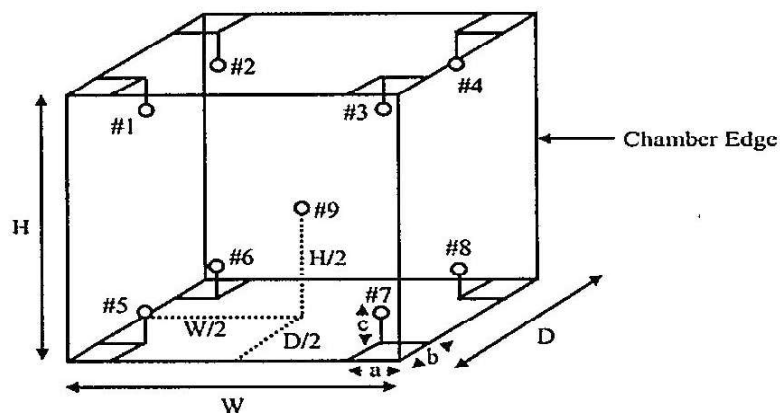
4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration .:

(☒) Without Adjustment

(☐) After Adjustment

1. Sensor Installation Diagram



Sensor Installation Details

a = 5.0 cm

b = 5.0 cm

c = 5.0 cm

Dimension of the chamber

W = 40.0 cm

H = 40.0 cm

D = 33.0 cm



Certificate No. : 24TH2757

CSR No. : A150/07473

Page. : 3 of 3

Result of Calibration :

2. Temperature Measurement Accuracy Test

The measurement results of the Cold Room and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)									Uncertainty (± °C)
	#1	#2	#3	#4	#5	#6	#7	#8	Ref. 9	
4	3.90	4.04	3.72	3.78	3.69	3.76	3.55	3.43	3.34	0.39

3. Performance Result

The performance of the Cold Room are reported as shown below

Cal point (°C)	UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (± °C)	Temperature Uniformity (°C)	Overall Variation (°C)
4	4.0	4.0	0.10	0.75	0.75

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$,
providing a level of confidence of approximately 95%

... End ...



Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com

CALIBRATION CERTIFICATE

Issued Date : 28-Feb-2025

Certificate No. : 25TH1073

CSR No. : A185/09219

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Customer Laboratory

Instrument Name : Digester Block

Manufacturer : Gerhardt

Model : KT-L205BS

Serial No. : 5770230038

ID No. : SGK_CL0092

Receipt Date : 25-Feb-2025

Calibration Date : 25-Feb-2025

Ambient Temperature : (30 ± 10) °C

Relative Humidity : (50 ± 30) %

REVIEW BY	 Ananta B
APPROVED BY	 Kanitta H.
NEXT CAL. DATE	 25/2/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SC.WI.12.016 based on G-20

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- SCaL : Southern Calibration Service Co., Ltd.,

Calibrated by : Ibromhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

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Certificate No. : 25TH1073

CSR No. : A185/09219

Page. : 2 of 3

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-1/67	22-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration

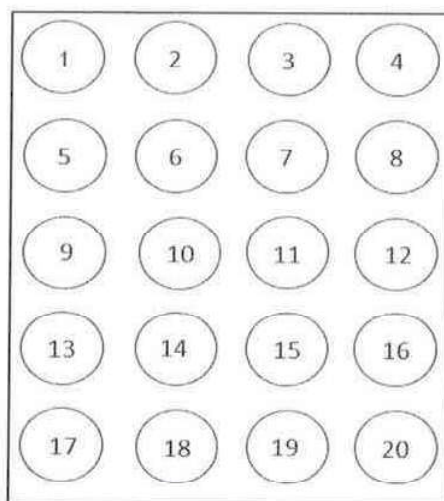
and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :

Sensor Installation Diagram



Measurement for Heating Block

Position	UUC Reading (°C)	Standard Temperature (°C)	Correction (°C)	Uncertainty (± °C)
No.1	383	380.24	-2.76	0.32
No.2	383	379.87	-3.13	0.32
No.3	383	379.92	-3.08	0.32
No.4	383	379.94	-3.06	0.32
No.5	383	379.88	-3.12	0.32

Result of Calibration :: (Cont.)
Measurement for Heating Block

Position	UUC Reading (°C)	Standard Temperature (°C)	Correction (°C)	Uncertainty (± °C)
No.6	383	379.97	-3.03	0.32
No.7	383	380.42	-2.58	0.32
No.8	383	380.47	-2.53	0.32
No.9	383	380.21	-2.79	0.32
No.10	383	380.44	-2.56	0.32
No.11	383	379.24	-3.76	0.32
No.12	383	380.27	-2.73	0.32
No.13	383	380.28	-2.72	0.32
No.14	383	379.93	-3.07	0.32
No.15	383	379.92	-3.08	0.32
No.16	383	379.98	-3.02	0.32
No.17	383	379.84	-3.16	0.32
No.18	383	379.82	-3.18	0.32
No.19	383	379.81	-3.19	0.32
No.20	383	380.21	-2.79	0.32

Remark : Calibration Points : 380 °C

UUC Setting : 383 °C

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

...End...



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3 : EQUIPMENT CALIBRATION AND TESTING SERVICES

534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250

TEL. 0-2717-3000 FAX. 0-2719-9484

Certificate of Testing

Cert.No.: 25TW191

Page.: 1 of 2

Equipment : DO Meter
Manufacturer : Mettler Toledo
Model : Seven2GO
Serial No. : B905192342
ID No. : PHK_FS0004
Received Date : 19 September 2025
Test Date : 22 September 2025
Reference : 2509-0712DSC-1
Submitted by :

ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Laboratory Condition : Temperature (25 ± 5) °C
Humidity (50 ± 20) %
Test Procedure : In - house method : CP-CH9
by Comparison Technique with Azide Modification Method

Tested by : Walalak Sirithean

Approved by :

Saithip

Approved Signatory

- () Chakrit Waewwanjua
() Ponpan Paipim
(✓) Saithip Meangmai

Issue Date : 24 September 2025

REVIEW BY	<i>Chayathron P.</i>
APPROVED BY	<i>Warakorn P.</i>
NEXT CAL DATE	22/09/26



Cert.No.: 25TW191

Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

This measurement result is traceable to the International System of Unit through the reference standards laboratory of Industrial Calibration Center, Technology Promotion Association (Thailand-Japan).

<u>Instruments</u>	<u>ID No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1. Burette	130BU10	25CG1126	18 Mar 2027
2. Balance	110RC001	25MM316	02 July 2026

2. Standard Material :-

<u>Material</u>	<u>Manufacturer</u>	<u>Lot.No.</u>	<u>Assay</u>
Sodium Thiosulfate 5-Hydrate AR	KEMAUS	2203162447	99.6%

Result : Dissolved Oxygen Meter Adjustment With Air 100 %

Dissolved Oxygen Probe No.: 629461

Titration Method (Azide Modification Method) (mg/L)	DO Meter Reading (mg/L)	Standard Deviation (mg/L)
8.20	8.27	0.0045

This report was certified only for the instrument we tested. It is allowable to use for study
Intend to use for advertising and referral purpose is prohibited. This report may not be reproduced
other in full, without written approval of the laboratory

-o0o-



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert. No.: 25LM149

Page.: 1 of 2

Equipment : DO Meter with Sensor

Manufacturer : Mettler Toledo

Model : Seven2GO

Serial No. : B905192342

ID No. : PHK_FS0004

Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd.
104 Phatthanakan 40, Phatthanakan Rd.,
Khwaeng Phatthanakan, Khet Suan Luang,
Bangkok 10250 Thailand

Location : TPA On Site Calibration Laboratory

Received Order : 19 September 2025

Calibrated Date : 28 September 2025

Ambient Temperature : (26 ± 10) °C

Relative Humidity : (50 ± 30) %

AC Line Voltage : (220 ± 22) V

Calibrated by : Khit Ruttanaprapachai

Approved by :

Approved Signatory

- () Chakrit Waewwanjua
(✓) Suwit Imjai
() Kunchit Promprat

Issue Date : 30 September 2025

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : DO Meter with Sensor
Condition As-Received : Used Item
Reference : 2509-0712DSC-2

Cert. No.: 25LM149

Page.: 2 of 2

Procedure Used :-

Calibration were conducted using in-house calibration procedure CP-OT01 according to comparison with Industrial Platinum Resistance Thermometer (IPRT) into Temperature Bath.

The temperature scale used was based on ITS-90.

Condition of this result of calibration

1. Reference standard instrument:-

<u>Instrument</u>	<u>Serial No.</u>	<u>Cert. No.</u>	<u>Traceable</u>	<u>Due Date</u>
1) Digital Thermometer	2188080	25I953	TPA	05 Sep 2026

2. This certificate is valid only to the item calibrated on date and place of calibration.

3. This measurement result is traceable to the International System of Unit maintained through :

Remark : TPA : Technology Promotion Association (Thailand - Japan)

Result of Calibration :- (*) Without Adjustment

Function : Temperature measurement.

This instrument was connected with temperature sensor, S/N.: 629461

<u>Calibration Point</u> (°C)	<u>Immersion Depth</u> (mm)	<u>Standard Temperature</u> (°C)	<u>UUC* Reading</u> (°C)	<u>Error</u> (°C)	<u>Uncertainty</u> (± °C)	<u>Coverage Factor</u> <i>k</i>
20.0	80	20.004	20.2	0.196	0.16	2.00

UUC* : Unit Under Calibration

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor *k*, providing a level of confidence of approximately 95 %.

-o0o-

Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 4-Jul-2024

Certificate No. : 24TH2760

CSR No. : A150/07473

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Microbiological Laboratory
Instrument Name : Autoclave
Manufacturer : TOMY
Model : SX-700
Serial No. : 52134079
ID No. : SGK_ML0001
Resolution : 1 °C
Received Date : 1-Jul-2024
Calibrated Date : 1-Jul-2024
Ambient Temperature : (30 ± 10) °C
Relative Humidity : (50 ± 30) %

REVIEW BY	Wichapol P.
APPROVED BY	Kamda H.
NEXT CAL. DATE	1/01/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.013 based on BS 2646 : 1993 (part 5)

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and/or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- SCaL : Sounthern Calibration Service Co., Ltd.,

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

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Certificate No. : 24TH2760

CSR No. : A150/07473

Page. : 2 of 3

Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data logger With Sensor	GL240	C90432223	24SDAT005	2-May-2025

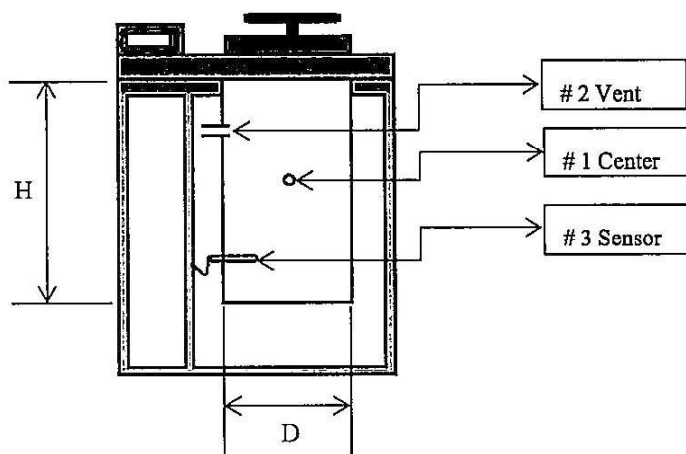
2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration : (✓) Without Adjustment () After Adjustment

1. Sensor Installation Diagram



Chamber Diameter (D) : 30 cm

Chamber Height (H) : 70 cm



Certificate No. : 24TH2760

CSR No. : A150/07473

Page. : 3 of 3

Result of Calibration :

2. Temperature Measurement Accuracy Test

The measurement results of the Autoclave and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)			Pressure Reading	Uncertainty (± °C)
	Center #1	Vent #2	Sensor #3		
115	116.3	116.4	116.3	0.07 MPa	0.76
118	119.2	119.2	119.2	0.09 MPa	0.76
121	121.8	121.5	121.6	0.11 MPa	0.76

3. Performance Result

The performance of the Autoclave are reported as shown below

Cal point (°C)	UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (± °C)	Temperature Uniformity (°C)	Overall Variation (°C)
115	115	115	0.10	0.17	0.17
118	118	118	0.10	0.10	0.10
121	121	121	0.70	0.50	0.84

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

... End ...

CALIBRATION CERTIFICATE

Issued Date : 6-Jul-2025

Certificate No. : 25TH3013

CSR No. : A202/10083

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Customer Laboratory

Instrument Name : Incubator

Manufacturer : Memmert

Model : ICP750

Serial No. : F816.0061

ID No. : SGK_ML0013

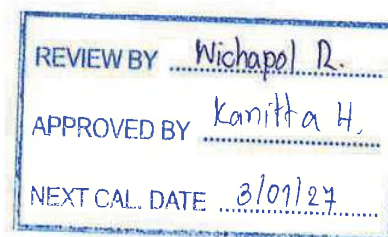
Resolution : 0.1 °C

Received Date : 3-Jul-2025

Calibrated Date : 3-Jul-2025

Ambient Temperature : (30 ± 10) °C

Relative Humidity : (50 ± 30) %



Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.012 based on GLA - 20

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- TISTR : Thailand Institute of Scientific and Technological Research

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager

SCAL.FO.018/a010723



The uncertainties are for a confidence probability of approximately 95%

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Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-2/67	22-Nov-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

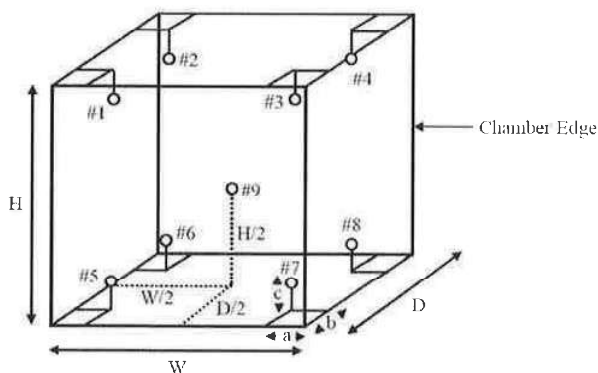
4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :

☒ Without Adjustment

☐ After Adjustment

1. Sensor Installation Diagram



Sensor Installation Details

a = 5.0 cm

b = 5.0 cm

c = 5.0 cm

Dimension of the chamber

W = 104.0 cm

H = 120.0 cm

D = 60.0 cm

Result of Calibration :

2. Temperature Measurement Accuracy Test

The measurement results of the Incubator and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)									Uncertainty (±°C)
	#1	#2	#3	#4	#5	#6	#7	#8	Ref. 9	
35	34.97	35.05	35.09	35.04	35.02	34.91	34.99	35.01	34.98	0.38

3. Temperature Performance Result

The performance of the Incubator are reported as shown below

UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (±°C)	Temperature Uniformity (°C)	Overall Variation (°C)
35.0	35.0	0.10	0.24	0.31

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$,
 providing a level of confidence of approximately 95%

... End ...

Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 5-Jul-2024

Certificate No. : 24CH0342

CSR No. : A150/07473

Page. : 1 of 2

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Microbiological Laboratory

Instrument Name : pH meter

Manufacturer : Sartorius

Model : PB-10

Serial No. : C07160695

ID No. : SGK_ML0016

Electrode No. : P20067003

Received Date : 2-Jul-2024

Calibrated Date : 2-Jul-2024

Ambient Temperature : $(25 \pm 3) ^\circ\text{C}$

Relative Humidity : $(55 \pm 15) \%$

REVIEW BY	Nichapol P.
APPROVED BY	Kanitta H.
NEXT CAL. DATE	2/07/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.008 based on direct measurement by using certified reference Material (CRM)

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement according to the International System of Unit (SI) through :

- CPAchem : CPAchem Ltd
- WK : WK Electric Co., Ltd.

Calibrated by : Alisara Ma

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

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Details of Calibration

1. Reference Standard Equipment Used:

Equipment	Model	Serial No.	Cert. no.	Due Date
Standard Solution	4.000	61278486	986239	10-May-2025
Standard Solution	7.000	61281486	986241	10-May-2025
Standard Solution	10.01	61287532	986240	10-May-2025
Temperature/Electrical Calibrator	MC2-TE	14987	WK2106-299-223	31-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration

and carry no implication regarding the longterm stability of instrument.

3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :

1. Electrical Measurement

Applied Voltage (mV)	pH meter Reading		Correction (mV)	Uncertainty (± mV)
	(mV)	(pH)		
177.48	177.5	3.80	-0.02	0.17
0.00	0.0	6.90	0.00	0.13
-177.48	-177.5	10.00	0.02	0.17

2. Before Sample Test Measurement

Standard Buffer Solutions (pH)	pH meter Reading		Correction (pH)	Uncertainty (± pH)
	(pH)	(mV)		
4.008	4.07	164.0	-0.062	0.011
6.985	7.02	-7.1	-0.035	0.020
10.010	10.03	-182.1	-0.020	0.037

3. After Sample Test Measurement

Standard Buffer Solutions (pH)	pH meter Reading		Correction (pH)	Uncertainty (± pH)
	(pH)	(mV)		
4.008	4.02	164.2	-0.012	0.011
6.985	7.00	-0.9	-0.015	0.020
10.010	10.01	-170.7	0.000	0.037

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%

... End ...

Southern Calibration Service Co., Ltd.

669/35 Karnjanavanit Rd., Banpru, Hatyai, Songkla 90250 Thailand
Tel : 08 1599 0417 Fax : 0 7480 5133 Email : s.calibration@gmail.com www.scal-lab.com



CALIBRATION CERTIFICATE

Issued Date : 4-Jul-2024

Certificate No. : 24TH2782

CSR No. : A150/07474

Page. : 1 of 3

Customer : ALS Laboratory Group (Thailand) Co., Ltd
114/1 Moo 8, Karnchanawanich Rd. Tambon, Ban Phru,
Amphoe Hat Yai, Songkhla, 90250

Calibration Place : Microbiological Laboratory
Instrument Name : Liquid Bath
Manufacturer : Memmert
Model : WPE45
Serial No. : L716.0558
ID No. : SGK_ML0021
Resolution : 0.1 °C
Received Date : 1-Jul-2024
Calibrated Date : 1-Jul-2024
Ambient Temperature : (30 ± 10) °C
Relative Humidity : (50 ± 30) %

REVIEW BY Wichapol R.
APPROVED BY Kanitta H.
NEXT CAL. DATE 1/01/26

Calibration Method Used :

This instrument was calibrated using the Calibration In - house method : SCAL.WI.014 based on ASTM E 715 : 1980
(reapproved 2001)

The Southern Calibration Service Co.,Ltd.calibration control system complies with requirement of ISO/IEC 17025:2017

Traceability of measurement :

This Certificate is traceable to the International and /or national standards which realize the units of measurement
according to the International System of Unit (SI) through :

- TISTR : Thailand Institute of Scientific and Technological Research

Calibrated by : Ibrorhim Saleemin

Approved by :

Imron Rattanaylum / Technical Manager



The uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written approval of Southern Calibration Service Co., Ltd.

**Details of Calibration****1. Reference Standard Equipment Used:**

Equipment	Model	Serial No.	Cert. no.	Due Date
Data Acquisition/Switch Unit	34970A	MY58009813	PSL-T0707-1/67	22-May-2025

2. The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the longterm stability of instrument.

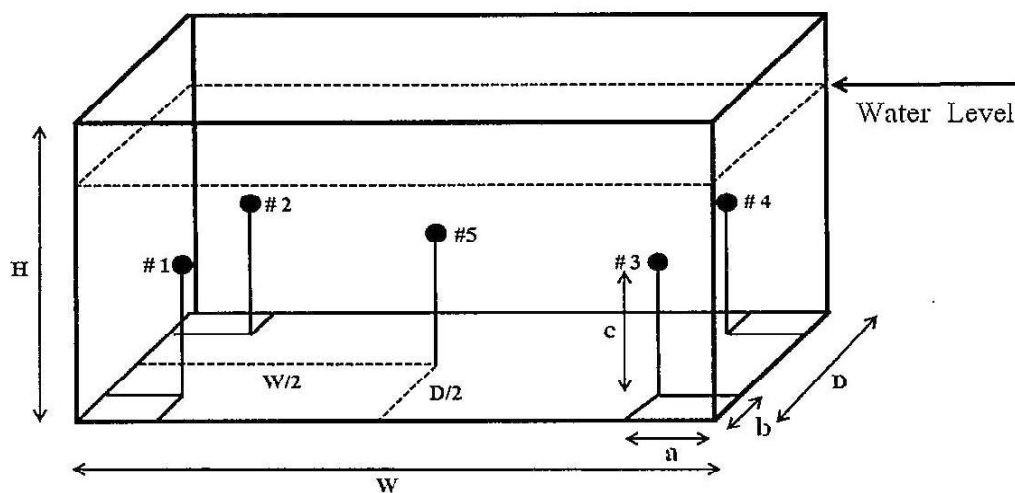
3. This certificate is not certified any commercial transaction

4. Condition of Item : normal condition , no indication for any damage or malfunction

Result of Calibration :

(✓) Without Adjustment

() After Adjustment

1. Sensor Installation Diagram**Sensor Installation Details**

a = 5 cm
b = 5 cm
c = 5 cm

Dimension of the chamber

W = 45 cm
H = 30 cm
D = 35 cm



Certificate No. : 24TH2782

CSR No. : A150/07474

Page. : 3 of 3

Result of Calibration :

2. Temperature Measurement Accuracy Test

The measurement results of the Liquid Bath and associates are reported in the manner as shown below

Cal point (°C)	Measured Standard Temperature At Spread Locations (°C)					Uncertainty (± °C)
	#1	#2	#3	#4	Ref.5	
44.5	44.48	44.46	44.51	44.49	44.47	0.14

3. Performance Result

The performance of the Liquid Bath are reported as shown below

Cal point (°C)	UUC Setting (°C)	UUC Reading (°C)	Temperature Stability (± °C)	Temperature Uniformity (°C)	Overall Variation (°C)
44.5	44.5	44.5	0.10	0.14	0.25

- UUC = Unit Under Calibration

The report uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$,
providing a level of confidence of approximately 95%

... End ...



Agilent Technologies

Agilent Technologies (Thailand) Limited
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Fax: +662 632 4334
Email: ccc-smt@agilent.com
Website: www.agilent.com/chem

Customer Contact:

ALS Laboratory Group (Thailand) Co
Ltd Head Office

104 Phatthanakan 40 Phatthanakan Rd
Khwaeng Phatthanakan Khet Suan

TAX ID : 0105540004859

tanyatorm.mongkonjirawut@alsglobal.com
027603077

Invoice To:

ALS Laboratory Group (Thailand) Co
Ltd Head Office

104 Phatthanakan 40 Phatthanakan Rd
Khwaeng Phatthanakan Khet Suan

Payer:

ALS Laboratory Group (Thailand) Co
Ltd Branch Number 0002
114/1 Moo8 Banplu Subdistric Hat
Yai District

SONGKHLA 90250

Delivery Site:

ALS Laboratory Group (Thailand) Co
Ltd
Branch Number 0002
114/1 Moo8 Banplu Subdistric Hat
Yai District

Location:

Room
Bldg
Lab
Dept

SERVICE REPORT

Customer Purchase Order Number:	Customer Number: 70371013
Service Request:	Service Request Date:
Service Order: 6007493912	Service Confirmation: 6906126918

REVIEW BY	Kavinna J.
APPROVED BY	Kanitta H.
NEXT CAL. DATE	3/8/26

Direct Inquiries to:

Contact Name:	Customer Contact Center
Contact E-mail:	ccc-smt@agilent.com
Contact Telephone:	+662 637 6363
Contact Fax:	+662 632 4334

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Citibank N.A. Bangkok Branch
399 Interchange 21 Building, Sukhumvit Road, Klongtoey Nau
Sub-district, Wattana District, Bangkok 10110 Thailand
Acc. No: 012-4452-007 ,
THB:Krung Thai Bank PCL
Siam Square Br.,416/1-2 Rama I Rd.,Pathumwan, BKK 10330
Thailand

ORIGINAL

Service Confirmation Number: 6906126918

Service Confirmation Date: 04.02.2025

Service Instrument:

Model Number	Model Description	Serial Number	System Handle	Parent Asset
SYS-IM-7900	ICPMS 7900 System			
G7201C	ICP-MS MassHunter SW only (excludes PC)	USH3799575	ICP MS 7900	SYS-IM-7900
G8403A	Agilent 7900 ICP-MS	JP16511669	ICP MS 7900	SYS-IM-7900
G8411A	ISIS 3 for Agilent 7850/7900/8900	JP16510379	ICP MS 7900	SYS-IM-7900

Service Items:

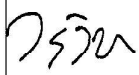
Item	Service/Part #	Description	Qty	Entitlement	Service Start	Service End
1000	EOQ	Enterprise Operational Qualification	1.00	Agreement Entitlement - 100 % covered	03.02.2025	04.02.2025
1010	5185-5850	ICP-MS Checkout Solutions	1.00	Agreement Entitlement - 100 % covered		

Additional Information:

Service Confirmation Number: 6906126918

Service Confirmation Date: 04.02.2025

Service Information:

Problem Description: *PR OQ ICP MS 7900 5001391286		
Service Provided: OQ_SGK_CL0048 Perform oq test . Sensitivity, resolution background both He and H2 mode. Stability test all pass. Sent oq report to customer. Let s customer test run sample.		
Service Overview Code: Reason Code: Scheduled Service Diagnosis Code: Scheduled Service Resolution Code: Scheduled Service		
Reported Hours: 7.0	Travel Hours: 2.0	
Customer Field Service Representative Name: Worawit Timakul	Customer Field Service Representative Signature: 	Date: 04 Feb 2025
Customer Name: TANYATORN MONGKONJIRAWUT	Customer Signature: 	Date: 04 Feb 2025
Additional Comments:		



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CORPORATE SERVICES 3: EQUIPMENT CALIBRATION AND TESTING SERVICES
534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG BANGKOK 10250
TEL.0-2717-3000-29 FAX.0-2719-9484



Certificate of Calibration

Cert.No.: 24CG4714

Page.: 1 of 2

Equipment :	Burette
Capacity :	10 mL
Serial No. :	-
ID. No. :	BKK_EN0296
Manufacturer :	Witeg
Made in :	Germany
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. 104 Phatthanakan 40, Phatthanakan Rd. Khwaeng Phatthanakan, Khet Suan Luang Bangkok 10250 Thailand
Ambient Temperature :	(20 ± 2.5) °C
Relative Humidity :	(50 ± 10) %
Barometric Pressure :	758 mmHg
Calibration Procedure :	ASTM E 542 - 01
Calibrated by :	Sa-ngeunkam Wongsa

REVIEW BY *Jinda K*

APPROVED BY *Siriluk P*

NEXT CAL DATE.....29/05/26

Approved by :

Approved Signatory

(✓) Srisuda Khamtha
() Ponpan Paipim
() Unnophol Harachai

Issue Date :

29 November 2024

The Uncertainties are for a confidence probability of approximately 95%

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Approval of the head of Corporate Services 3 : Equipment Calibration and Testing Services.



Equipment : Burette
Received Date : 27 November 2024
Condition As-Received : Used Item
Calibration Date : 29 November 2024
Reference : 2411-0850DSC-1

Cert.No.: 24CG4714

Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instruments :

<u>Instruments</u>	<u>Model</u>	<u>Serial No.</u>	<u>ID. No.</u>	<u>Certificate No.</u>	<u>Traceability</u>	<u>Due date</u>
1) Balance	XP205	B134206712	140RC007	24MM316	TPA	15 July 2025
2) Data Logger	HL-20D	24019652	140EC015	24H1926	TPA	13 Sep 2025
3) Thermometer	-	1594592	140EC010	24I175	TPA	20 Feb 2025

This certification is traceable to SI Unit

2. The certificate is valid only to the item calibrated on date and place of calibration.

3. True value is converted to true volume at the standard temperature of 20 °C

Calibration result :

Nominal capacity (mL)	Reading (mL)	Uncertainty (± mL)	k Factor
1	1.0047	0.0036	2.00
5	5.0020	0.0036	2.00
10	10.0056	0.0038	2.00

Remark mL = cm³

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k , providing a level of confidence of approximately 95 %.

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TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
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TEL.0-2717-3000-29 FAX.0-2719-9484

Certificate of Calibration

Cert.No.: 25CH504

Page.: 1 of 2

Equipment :	Conductivity Meter
Manufacturer :	Mettler Toledo
Model :	SevenCompact S230
Serial No. :	B608134488
ID No. :	SGK_CL0032
Condition As-Received:	Used Item
Received Date :	25 April 2025
Calibration Date :	02 May 2025
Reference :	2504-0711DSC-1
Submitted by :	ALS Laboratory Group (Thailand) Co.,Ltd. Songkhla Branch. 114/1 Moo 8 Karnchanawanich Rd., T.Ban Phru, A.Hat Yai, Songkhla 90250 Thailand
Ambient Temperature :	(25 ± 2.5) °C
Relative Humidity :	(50 ± 15) %
Calibration Procedure:	In -house method : - CP-CH6 by direct measurement with reference material (RM)
Calibrated by :	Warakorn Lernagatrakul
Approved by :	 Approved Signatory
(✓) Chakrit Waewwanjua	
() Ponpan Paipim	
() Saithip Meangmai	
Issue Date :	05 May 2025

REVIEW BY	Chandknan M.
APPROVED BY.....	Kanitta H
NEXT CAL DATE.....	02/05/26

The Uncertainties are for a confidence probability of approximately 95%

This certificate may not be reproduced other than in full, except with the prior written
Approval of the head of Calibration and Testing Equipment Services.



Cert.No.: 25CH504

Page.: 2 of 2

Condition of this result of calibration

1. Reference Standard Instrument :-

<u>Instrument</u>	<u>Serial No.</u>	<u>ID No.</u>	<u>Certificate No.</u>	<u>Due date</u>
1) Thermometer	1963878	130RC095	24I995	09 Sep 2025

- This Certification is traceable to SI Through Technology Promotion Association (Thailand - Japan)

2. Certified Reference Materials :-

- Conductivity calibration solution, Thermo Scientific (Traceable to NIST)

<u>Conductivity Solution</u>	<u>Manufacturer</u>	<u>Lot No.</u>	<u>Exp. date</u>
84 $\mu\text{S/cm}$	Thermo Scientific	424/02	18 Oct 2025
1413 $\mu\text{S/cm}$	Thermo Scientific	174/03	26 Apr 2027
12.88 mS/cm	Thermo Scientific	422/01	21 Oct 2025

- Control Conductivity calibration solution temperature by Water bath (25 ± 0.1) $^{\circ}\text{C}$

3. This certificate is valid only to the item calibrated on date and place of calibration.

Calibration results

Function : Conductivity Measurement

(*) Without Adjustment

Conductivity Electrode Serial No.: 5820120321

Standard Conductivity Solution	UUC* Reading	Uncertainty of Measurement ($\pm$)	Coverage factor k
84 $\mu\text{S/cm}$	84.3 $\mu\text{S/cm}$	4.3 $\mu\text{S/cm}$	2.00
1413 $\mu\text{S/cm}$	1426 $\mu\text{S/cm}$	15 $\mu\text{S/cm}$	2.00
12.88 mS/cm	12.88 mS/cm	0.14 mS/cm	2.00

Remark : - UUC* = Unit Under Calibration

- Cell constant = 0.574487 cm^{-1}

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k , providing a level of confidence of approximately 95 %.

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TEL.0-2717-3000-29 FAX.0-2719-9484

Certificate of Calibration

Cert.No.: 25CH505

Page.: 1 of 2

Equipment : Conductivity Meter
Manufacturer : Mettler Toledo
Model : SevenCompact S230
Serial No. : B608134488
ID No. : SGK_CL0032
Condition As-Received: Used Item
Received Date : 25 April 2025
Calibration Date : 02 May 2025
Reference : 2504-0711DSC-2
Submitted by : ALS Laboratory Group (Thailand) Co.,Ltd. Songkhla Branch.
114/1 Moo 8 Karnchanawanich Rd., T.Ban Phru,
A.Hat Yai, Songkhla 90250 Thailand
Ambient Temperature : $(25 \pm 2.5) ^\circ\text{C}$
Relative Humidity : $(50 \pm 15) \%$
Calibration Procedure: In -house method :
- CP-CH6 by direct measurement
with reference material (RM)
Calibrated by : Warakorn Lernagatrakul

Approved by : _____
Approved Signatory
(✓) Chakrit Waewwanjua
() Ponpan Paipim
() Saithip Meangmai
Issue Date : 05 May 2025

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