



## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Tap Water

Sampling Method : Grab

Sampling Date : 25/01/2023

Received Date : 26/01/2023

Analytical Date : 26/01/2023

Report Date : 31/01/2023

Report No. : WT0510166001

Parameter	Unit	Method**	0244/01/23	0245/01/23	Standard ***
			Cold water basin Guest room.1009	Hot water basin Guest room.1009	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Residual Chlorine	mg/L	Photometer (DPD)	1.0	1.0	0.2-0.5
Appearance		Observation	Clear	Clear	

Remark : :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Water quality standards Ministry of Public Health, Department of Health,2020



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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

**Customer** : Amari Orchid Pattaya

**Address** : Pattaya, Chonburi

**Sample Type** : Swimming water

**Analytical Date** : 26/01/2023

**Sampling Method** : Grab

**Report Date** : 31/01/2023

**Sampling Date** : 25/01/2023

**Report No.** : WT0510166002

**Received Date** : 26/01/2023

Parameter	Unit	Method**	0246/01/23	Standard ***
			Swimming Pool	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.81	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.64	0.5 – 1.0
Alkalinity	ppm	Titration Method	89	80 – 100
Calcium hardness	mg/L	Titration Method	268	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.10	30 – 60
Chloride	mg/L	Titration Method	290	<600
Ammonia	mg/L	Phenate Method	7.00	<20
Nitrate	mg/L	Nitrate Electrode	0.7400	<50
Coliform, Total	MPN/1000mL	APHA: 9221B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Ministry of Public Health BE.2550, Thailand for swimming pool analysis

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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Tap Water

Analytical Date : 21/02/2023

Sampling Method : Grab

Report Date : 28/02/2023

Sampling Date : 20/02/2023

Report No. : WT0510266001

Received Date : 21/02/2023

Parameter	Unit	Method**	0615/02/23	0617/02/23	Standard ***
			Cold water basin Guest room.400	Hot water basin Guest room.400	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Residual Chlorine	mg/L	Photometer (DPD)	2.0	2.0	0.2-0.5
Appearance		Observation	Clear	Clear	

Remark : :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

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(3)\*\*\*Water quality standards Ministry of Public Health, Department of Health,2020



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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

**Customer** : Amari Orchid Pattaya

**Address** : Pattaya, Chonburi

**Sample Type** : Swimming water

**Analytical Date** : 21/02/2023

**Sampling Method** : Grab

**Report Date** : 28/02/2023

**Sampling Date** : 20/02/2023

**Report No.** : WT0510266002

**Received Date** : 21/02/2023

Parameter	Unit	Method**	0618/02/23	Standard ***
			Swimming Pool	
pH	-	Electrometric Method	7.7	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.62	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.80	0.5 – 1.0
Alkalinity	ppm	Titration Method	86	80 – 100
Total hardness	mg/L	Titration Method	271	250 – 600
Cyanuric acid	mg/L	Turbidimetric	41.00	30 – 60
Chloride	mg/L	Titration Method	271	<600
Ammonia as Nitrogen	mg/L	Phenate Method	8.50	<20
Nitrate as Nitrogen	mg/L	Nitrate Electrode	2.00	<50
Coliform, Total	MPN/1000mL	APHA: 9221B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Ministry of Public Health BE.2550, Thailand for swimming pool analysis

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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Tap Water

Analytical Date : 21/03/2023

Sampling Method : Grab

Report Date : 28/03/2023

Sampling Date : 20/03/2023

Report No. : WT0510366001

Received Date : 21/03/2023

Parameter	Unit	Method**	0797/03/23	0798/03/23	Standard ***
			Cold water basin Guest room.1017	Hot water basin Guest room.1017	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Residual Chlorine	mg/L	Photometer (DPD)	1.0	1.0	0.2-0.5
Appearance		Observation	Clear	Clear	

Remark : :

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- (2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017
- (3)\*\*\*Water quality standards Ministry of Public Health, Department of Health,2020



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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

**Customer** : Amari Orchid Pattaya

**Address** : Pattaya, Chonburi

**Sample Type** : Swimming water

**Analytical Date** : 21/03/2023

**Sampling Method** : Grab

**Report Date** : 28/03/2023

**Sampling Date** : 20/03/2023

**Report No.** : WT0510366002

**Received Date** : 21/03/2023

Parameter	Unit	Method**	0799/03/23	Standard ***
			Swimming Pool	
pH	-	Electrometric Method	7.9	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.68	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.71	0.5 – 1.0
Alkalinity	ppm	Titration Method	90	80 – 100
Total hardness	mg/L	Titration Method	19	<300
Cyanuric acid	mg/L	Turbidimetric	41.00	30 – 60
Chloride	mg/L	Titration Method	219	<600
Ammonia as Nitrogen	mg/L	Phenate Method	10.3	<20
Nitrate as Nitrogen	mg/L	Nitrate Electrode	1.20	<50
Coliform, Total	MPN/1000mL	APHA: 9221B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Ministry of Public Health BE.2550, Thailand for swimming pool analysis

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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Tap Water

Analytical Date : 25/04/2023

Sampling Method : Grab

Report Date : 02/05/2023

Sampling Date : 24/04/2023

Report No. : WT0510466001

Received Date : 25/04/2023

Parameter	Unit	Method**	1377/04/23	1378/04/23	Standard ***
			Cold water basin Guest room.1820	Hot water basin Guest room.1017	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Residual Chlorine	mg/L	Photometer (DPD)	0.60	0.60	0.2-0.5
Appearance		Observation	Clear	Clear	

Remark : :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Water quality standards Ministry of Public Health, Department of Health,2020



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## Analysis/Test Report

### Private Laboratory Registration 3-2023

**Customer** : Amari Orchid Pattaya

**Address** : Pattaya, Chonburi

**Sample Type** : Swimming water

**Analytical Date** : 25/04/2023

**Sampling Method** : Grab

**Report Date** : 02/05/2023

**Sampling Date** : 24/04/2023

**Report No.** : WT0510466002

**Received Date** : 25/04/2023

Parameter	Unit	Method**	1380/04/23	Standard ***
			Swimming Pool	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	1.0	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.55	0.5 – 1.0
Alkalinity	ppm	Titration Method	89	80 – 100
Total hardness	mg/L	Titration Method	19	<300
Cyanuric acid	mg/L	Turbidimetric	38.50	30 – 60
Chloride	mg/L	Titration Method	184	<600
Ammonia as Nitrogen	mg/L	Phenate Method	13.0	<20
Nitrate as Nitrogen	mg/L	Nitrate Electrode	1.0	<50
Coliform, Total	MPN/1000mL	APHA: 9221B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Ministry of Public Health BE.2550, Thailand for swimming pool analysis

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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Tap Water

Analytical Date : 27/05/2023

Sampling Method : Grab

Report Date : 01/06/2023

Sampling Date : 27/05/2023

Report No. : WT0510566001

Received Date : 27/05/2023

Parameter	Unit	Method**	1479/05/23	1480/05/23	Standard ***
			Cold water basin Guest room.515	Hot water basin Guest room.1017	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Residual Chlorine	mg/L	Photometer (DPD)	0.60	0.50	0.2-0.5
Appearance		Observation	Clear	Clear	

Remark : :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

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(3)\*\*\*Water quality standards Ministry of Public Health, Department of Health,2020



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## Analysis/Test Report

### Private Laboratory Registration 3-2023

**Customer** : Amari Orchid Pattaya

**Address** : Pattaya, Chonburi

**Sample Type** : Swimming water

**Analytical Date** : 27/05/2023

**Sampling Method** : Grab

**Report Date** : 01/06/2023

**Sampling Date** : 27/05/2023

**Report No.** : WT0510566002

**Received Date** : 27/05/2023

Parameter	Unit	Method**	1841/05/23	Standard ***
			Swimming Pool	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	1.0	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.69	0.5 – 1.0
Alkalinity	ppm	Titration Method	91	80 – 100
Total hardness	mg/L	Titration Method	18	<300
Cyanuric acid	mg/L	Turbidimetric	39.20	30 – 60
Chloride	mg/L	Titration Method	250	<600
Ammonia as Nitrogen	mg/L	Phenate Method	9.0	<20
Nitrate as Nitrogen	mg/L	Nitrate Electrode	23.0	<50
Coliform, Total	MPN/1000mL	APHA: 9221B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Ministry of Public Health BE.2550, Thailand for swimming pool analysis

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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Tap Water

Sampling Method : Grab

Sampling Date : 21/06/2023

Received Date : 22/06/2023

Analytical Date : 22/06/2023


Report Date : 29/06/2023

Report No. : WT0510666001


Parameter	Unit	Method**	1791/06/23	1792/06/23	Standard ***
			Cold water basin Guest room.1402	Hot water basin Guest room.1402	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	ND	None detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	ND	None detected
Residual Chlorine	mg/L	Photometer (DPD)	1.0	0.09	0.2-0.5
Appearance		Observation	Clear	Clear	

Remark : :

- (1)\* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
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- (3)\*\*\*Water quality standards Ministry of Public Health, Department of Health,2020

  
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## Analysis/Test Report

### Private Laboratory Registration ๓-๒๓๘

Customer : Amari Orchid Pattaya

Address : Pattaya, Chonburi

Sample Type : Swimming water

Analytical Date : 22/06/2023

Sampling Method : Grab

Report Date : 29/06/2023

Sampling Date : 21/06/2023

Report No. : WT0510666002

Received Date : 22/06/2023

Parameter	Unit	Method**	1794/06/23	Standard ***
			Swimming Pool	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	1.1	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.59	0.5 – 1.0
Alkalinity	ppm	Titration Method	87	80 – 100
Total hardness	mg/L	Titration Method	22	<300
Cyanuric acid	mg/L	Turbidimetric	39.10	30 – 60
Chloride	mg/L	Titration Method	341	<600
Ammonia as Nitrogen	mg/L	Phenate Method	11.0	<20
Nitrate as Nitrogen	mg/L	Nitrate Electrode	15.0	<50
Coliform, Total	MPN/1000mL	APHA: 9221B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

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(2)\*\* Method Based on Standard Methods for The examination of Water & Wastewater 23<sup>rd</sup> Edition, 2017

(3)\*\*\*Ministry of Public Health BE.2550, Thailand for swimming pool analysis

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