Name of Laboratory : Analytical Laboratory Service Co., Ltd.

Address : 611/277-279 Soi Watchan Nai, Charoenkrung Road, Bangklo,

Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Contact Person : Miss. Vaewdaow Petsrithong

Phone: 02-292-1645, 02-292-1648, 02-689-8164-5,

02-689-8600, 095-942-6540

Fax:-

E-mail : marketingals@gmail.com

Initial Issue Date : 26th October 2020

Issue Date : 9th April 2024

Expired date : 8th April 2028

Standard : ISO/IEC 17025:2017

Reference No.

: 0303/5273

Scope of Testing Laboratory Accreditation

Laboratory Name : Analytical Laboratory Service Co., Ltd.

Address : 611/277-279 Soi Watchan Nai, Charoenkrung Road, Bangklo,

Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborato			
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- pH	Standard Methods for the Examination
		4.0 to 10.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-H ⁺ B
		- pH	In - house method : ALS.TE.1121
		4.0 to 10.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 4500-H ⁺ B
		- Cadmium	In - house method : ALS.TH.1101.2
		0.002 mg/L to 1.00 mg/L	based on Standard Methods for the
		- Lead	Examination of Water and Wastewater,
		0.01 mg/L to 4.00 mg/L	APHA, AWWA & WEF, 24 th ed., 2023,
		- Nickel	
		0.004 mg/L to 2.00 mg/L	

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 1/13

Scope of Testing Laboratory Accreditation

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Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Laboratory Status : lackimes Permanent \Box Site \Box Temporary \Box Mobile

	ry Status . 🚨 Feiii		,
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Copper	Standard Methods for the Examination
(cont.)		0.02 mg/L to 20.00 mg/L	of Water and Wastewater, APHA,
		- Manganese	AWWA & WEF, 24 th ed., 2023,
		0.02 mg/L to 20.00 mg/L	part 3111 B, 3030 E
		- Iron	
		0.10 mg/L to 40.00 mg/L	
		- Zinc	
		0.02 mg/L to 10.00 mg/L	
		- Total solid	Standard Methods for the Examination
		at 103 °C to 105 °C	of Water and Wastewater, APHA,
		10 mg/L to 2 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 B

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 2/13

Scope of Testing Laboratory Accreditation

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Accreditation Number : Testing - 0243

Laboratory Status : lackimes Permanent \Box Site \Box Temporary \Box Mobile

ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Total dissolved solids	Standard Methods for the Examination
(cont.)		dried at 180 °C	of Water and Wastewater, APHA,
		10 mg/L to 4 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 C
		- Total suspended solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		10 mg/L to 2 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 D
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		5 mg/L to 500 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2340 C

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 3/13

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Accreditation Number : Testing - 0243

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Chloride	Standard Methods for the Examination
(cont.)		4 mg/L to 500 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500- Cl ⁻ B
		- Standard plate count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9215 B
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9221 B, C

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 4/13

Scope of Testing Laboratory Accreditation

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Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborato	Laboratory Status : De Permanent De Site De Temporary De Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Water	- Thermotolerant (Fecal) coliform	Standard Methods for the Examination	
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 24 th ed., 2023,	
			part 9221 B, C, E	
		- E. coli	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 24 th ed., 2023,	
			part 9221 B, C, F	
		- Staphylococcus aureus	In - house method : ALS.TM.1103	
		Detected or not detected/100 mL	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 24 th ed., 2023,	
			part 9213 B	

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 5/13

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Accreditation Number : Testing - 0243

Laboratory Status : $oxed{\square}$ Permanent $oxed{\square}$ Site $oxed{\square}$ Temporary $oxed{\square}$ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Salmonella spp.	Standard Methods for the Examination
(cont.)		Detected or not detected/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9274
2	Bottled drinking water	- Standard plate count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9215 B
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9221 B, C

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 6/13

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Accreditation Number : Testing - 0243

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

	-		·
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Bottled drinking water	- Thermotolerant (Fecal) coliform	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9221 B, C, E
		- E. coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9221 B, C, F
		- Staphylococcus aureus	In - house method : ALS.TM.1103
		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 9213 B

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 7/13

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Accreditation Number : Testing - 0243

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborato	Laboratory Status : Let Permanent Let Site Let Temporary Let Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Bottled drinking water	- Salmonella spp.	Standard Methods for the Examination	
(cont.)		Detected or not detected/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 24 th ed., 2023,	
			part 9274	
3	Ice	- Standard plate count	Standard Methods for the Examination	
		CFU/ml	of Water and Wastewater, APHA,	
			AWWA & WEF, 24 th ed., 2023,	
			part 9215 B	
		- Coliforms	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 24 th ed., 2023,	
			part 9221 B, C	

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 8/13

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Accreditation Number : Testing - 0243

Laboratory Status : lackimes Permanent \Box Site \Box Temporary \Box Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Ice	- Thermotolerant (Fecal) coliform	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9221 B, E
		- E. coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9221 B, F
		- Staphylococcus aureus	In - house method : ALS.TM.1103
		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 9213 B

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 9/13

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Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Ice	- Salmonella spp.	Standard Methods for the Examination
(cont.)		Detected or not detected/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 9274
4	Wastewater	- pH	Standard Methods for the Examination
		4.0 to 10.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 4500-H ⁺ B
		- pH	In - house method : ALS.TE.1121
		4.0 to 10.0	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 th ed., 2023,
			part 4500-H [†] B

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 10/13

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Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborato	Laboratory Status : De Permanent De Site De Temporary De Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
4	Wastewater	- Cadmium	Standard Methods for the Examination		
(cont.)		0.02 mg/L to 10.00 mg/L	of Water and Wastewater, APHA,		
		- Lead	AWWA & WEF, 24 th ed., 2023,		
		0.10 mg/L to 40.00 mg/L	part 3111 B, 3030 E		
		- Nickel			
		0.04 mg/L to 20.00 mg/L			
		- Copper			
		0.02 mg/L to 20.00 mg/L			
		- Manganese			
		0.02 mg/L to 20.00 mg/L			
		- Iron			
		0.10 mg/L to 40.00 mg/L			
		- Zinc			
		0.02 mg/L to 10.00 mg/L			

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 11/13

Scope of Testing Laboratory Accreditation

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Bangkholaem, Bangkok 10120

Accreditation Number : Testing - 0243

Laboratory Status : lacktriangledown Permanent \Box Site \Box Temporary \Box Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Wastewater	- Total solid	Standard Methods for the Examination
(cont.)		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		10 mg/L to 4 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 B
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		10 mg/L to 5 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 C
		- Total suspended solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		10 mg/L to 2 000 mg/L	AWWA & WEF, 24 th ed., 2023,
			part 2540 D

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 12/13

Scope of Testing Laboratory Accreditation

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Application Number : Testing - 0243

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Wastewater	- COD	Standard Methods for the Examination
(cont.)		40 mg/L to 900 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 th ed., 2023,
			part 5220 D

Initial Issue Date 26th October 2020

Issue Number 3

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

LA-F-31-9/11-19 page 13/13