Name of Laboratory	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru,
	Amphoe Hat Yai, Changwat Songkhla 90250
Accreditation Number	: Testing – 0166
Contact Person	: Miss Yupaporn Chanpleng
	Phone : 0 2760 3000
	Fax: 0 2760 3197
	E-mail : yupaporn.chanpleng@alsglobal.com
Initial Issue Date	: 4 <sup>th</sup> April 2018
Issue Date	: 7 <sup>th</sup> November 2023
Expired date	: 16 <sup>th</sup> June 2026
Standard	: ISO/IEC 17025:2017
Reference No.	: 0303/18184

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

: Testing - 0166

Accreditation Number

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Clostridium perfringens	In - house method : STM No.14-017
	- Non-potable water	Detected or not detected/100 mL	based on Standard Methods for the
	- Surface water		Examination of Water and Wastewater,
	- Ground water		APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Rain water		part 9260 A, 9274 B and FDA Bacteriological
			Analytical Manual online, 2001, Chapter 16
		- Coliforms	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 B
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Escherichia coli	Standard Methods for the Examination
(cont.)	- Non-potable water	CFU/100 mL	of Water and Wastewater, APHA,
	- Surface water		AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water		part 9222 H
	- Rain water		
		- Escherichia coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, F
		- Enterococcus spp.	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Fecal Coliforms	Standard Methods for the Examination
(cont.)	- Non-potable water	MPN/100 mL	of Water and Wastewater, APHA,
	- Surface water	Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water		part 9221 B, E
	- Rain water		
		- Fecal Streptococcus	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C
		- Salmonella spp.	ISO 19250 : 2010
		Detected or not detected/100 mL	
		- Standard Plate Count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9215 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)Address: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Staphylococcus aureus	In - house method : STM No.14-039
(cont.)	- Non-potable water	CFU/100 mL	based on Standard Methods for the
	- Surface water	Detected or not detected/100 mL	Examination of Water and Wastewater,
	- Ground water		APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Rain water		part 9213 B and FDA Bacteriological
			Analytical Manual online, 2016, Chapter 12
		- Aluminium 0.005 mg/L to 15 mg/L - Antimony 0.0005 mg/L to 15 mg/L - Arsenic 0.0005 mg/L to 15 mg/L - Barium	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 3125 B, 3030 F
		0.0005 mg/L to 15 mg/L - Beryllium 0.0005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Boron	Standard Methods for the Examination
(cont.)	- Non-potable water	0.005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
	- Surface water	- Cadmium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water	0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
	- Rain water	- Calcium	
		0.05 mg/L to 1 000 mg/L	
		- Chromium	
		0.0005 mg/L to 15 mg/L	
		- Cobalt	
		0.0005 mg/L to 15 mg/L	
		- Copper	
		0.0005 mg/L to 15 mg/L	
		- Iron	
		0.005 mg/L to 15 mg/L	
		- Lead	
		0.0005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)Address: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Magnesium	Standard Methods for the Examination
(cont.)	- Non-potable water	0.05 mg/L to 1 000 mg/L	of Water and Wastewater, APHA,
	- Surface water	- Manganese	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water	0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
	- Rain water	- Mercury	
		0.0005 mg/L to 0.1 mg/L	
		- Molybdenum	
		0.0005 mg/L to 15 mg/L	
		- Nickel	
		0.0005 mg/L to 15 mg/L	
		- Phosphorus	
		0.05 mg/L to 1 000 mg/L	
		- Potassium	
		0.05 mg/L to 1 000 mg/L	
		- Selenium	
		0.0005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Silver	Standard Methods for the Examination
(cont.)	- Non-potable water	0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
	- Surface water	- Sodium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water	0.05 mg/L to 1 000 mg/L	part 3125 B, 3030 F
	- Rain water	- Strontium	
		0.0005 mg/L to 15 mg/L	
		- Tellurium	
		0.0005 mg/L to 15 mg/L	
		- Thallium	
		0.0005 mg/L to 15 mg/L	
		- Tin	
		0.0005 mg/L to 15 mg/L	
		- Titanium	
		0.005 mg/L to 15 mg/L	
		- Vanadium	
		0.0005 mg/L to 15 mg/L	

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch) Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Zinc	Standard Methods for the Examination
(cont.)	- Non-potable water	0.005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
	- Surface water		AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water		part 3125 B, 3030 F
	- Rain water		
		- Mercury	In - house method : STM No.13-036
		0.0005 mg/L to 0.1 mg/L	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473
		- Free chlorine	Standard Methods for the Examination
		0.1 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-Cl (F)

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	🗆 Temporary 🔲 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- рН	Standard Methods for the Examination
(cont.)	- Non-potable water	4.0 to 10.0	of Water and Wastewater, APHA,
	- Surface water		AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water		part 4500-H <sup><math>+</math></sup> B
	- Rain water		
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		5 mg/L to 5 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 C
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO <sub>3</sub> )	of Water and Wastewater, APHA,
		1 mg/L to 1 500 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2340 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Am

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Total solids	Standard Methods for the Examination
(cont.)	- Non-potable water	dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
	- Surface water	5 mg/L to 5 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Ground water		part 2540 B
	- Rain water		
		- Turbidity	Standard Methods for the Examination
		0.1 NTU to 1 000 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2130 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

Address

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Fecal Coliforms	Standard Methods for the Examination
(cont.)	- Non-potable water	CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 D
		- Vibrio cholerae	Standard Methods for the Examination
		Detected or not detected/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		- Vibrio parahaemolyticus	part 9278 A, B
		Detected or not detected/100 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Hexavalent chromium	Standard Methods for the Examination
(cont.)	- Surface water	0.01 mg/L to 400 mg/L	of Water and Wastewater, APHA,
	- Ground water		AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Rain water		part 3500-Cr (B)
		- BOD	Standard Methods for the Examination
		2 mg/L to 5 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5210 B, 4500-O G
		- COD	Standard Methods for the Examination
		5 mg/L to 20 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5220 D

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Water	- Total suspended solids	Standard Methods for the Examination
(cont.)	- Surface water	dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
	- Ground water	5 mg/L to 5 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
	- Rain water		part 2540 D
		- Oil & Grease	Standard Methods for the Examination
		3 mg/L to 200 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5520 B ***
		- Phenol	Standard Methods for the Examination
		0.01 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5530 D

\*\*\* Change of test method

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B
		- Escherichia coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, F
		- Fecal Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, E

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch) Laboratory Name Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Standard Plate Count	Standard Methods for the Examination
(cont.)		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9215 B
		- Aluminium	Standard Methods for the Examination
		0.005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Antimony	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Arsenic	
		0.0005 mg/L to 15 mg/L	
		- Barium	
		0.0005 mg/L to 15 mg/L	
		- Beryllium	
		0.0005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Boron	Standard Methods for the Examination
(cont.)		0.005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Cadmium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Calcium	
		0.05 mg/L to 1 000 mg/L	
		- Chromium	
		0.0005 mg/L to 15 mg/L	
		- Cobalt	
		0.0005 mg/L to 15 mg/L	
		- Copper	
		0.0005 mg/L to 15 mg/L	
		- Iron	
		0.005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Lead	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Magnesium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.05 mg/L to 1 000 mg/L	part 3125 B, 3030 F
		- Manganese	
		0.0005 mg/L to 15 mg/L	
		- Mercury	
		0.0005 mg/L to 0.5 mg/L	
		- Molybdenum	
		0.0005 mg/L to 15 mg/L	
		- Nickel	
		0.0005 mg/L to 15 mg/L	
		- Phosphorus	
		0.05 mg/L to 1 000 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

 Laboratory Name
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Changwat Songkhla 90250

Accreditation Number

Address

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Potassium	Standard Methods for the Examination
(cont.)		0.05 mg/L to 1 000 mg/L	of Water and Wastewater, APHA,
		- Selenium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Silver	
		0.0005 mg/L to 15 mg/L	
		- Sodium	
		0.05 mg/L to 1 000 mg/L	
		- Strontium	
		0.0005 mg/L to 15 mg/L	
		- Tellurium	
		0.0005 mg/L to 15 mg/L	
		- Thallium	
		0.0005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Tin	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Titanium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Vanadium	
		0.0005 mg/L to 15 mg/L	
		- Zinc	
		0.005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Mercury	In - house method : STM No.13-036
(cont.)		0.0005 mg/L to 0.1 mg/L	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473
		- Hexavalent chromium	Standard Methods for the Examination
		0.01 mg/L to 400 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 3500-Cr (B)
		- BOD	Standard Methods for the Examination
		2 mg/L to 5 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5210 B, 4500-O G

Initial Issue Date 4<sup>th</sup> April 2018

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Address

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Changwat Songkhla 90250

Accreditation Number

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Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- COD	Standard Methods for the Examination
(cont.)		5 mg/L to 20 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5220 D
		- Free chlorine	Standard Methods for the Examination
		0.1 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-Cl (F)
		- рН	Standard Methods for the Examination
		4.0 to 10.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-H <sup><math>+</math></sup> B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

: Testing - 0166

Accreditation Number

Laboratory Status : **P**ermanent □ Site Temporary □ Mobile Item Test Material / Test Item / Test Method / Product Range of Testing Number Technique Used 2 Wastewater - Total dissolved solids Standard Methods for the Examination (cont.) dried at 180 °C of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023, 100 mg/L to 20 000 mg/L part 2540 C - Total solids Standard Methods for the Examination dried from 103 °C to 105 °C of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023, 50 mg/Lto 20 000 mg/L part 2540 B - Total suspended solids Standard Methods for the Examination dried from 103 °C to 105 °C of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023, 5 mg/L to 5 000 mg/L part 2540 D

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

Address

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	Wastewater	- Oil & Grease	Standard Methods for the Examination
(cont.)		3 mg/L to 2 000 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5520 B
		- Phenol	Standard Methods for the Examination
		0.01 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 5530 D

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Seawater	- Clostridium perfringens	In - house method : STM No.14-017
		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater.
			APHA, AWWA, WEF, 24 <sup>th</sup> ed., 2023,
			part 9260 A, 9274 B and FDA Bacteriological
			Analytical Manual online, 2001, Chapter 16
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B
		- Coliforms	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Seawater	- Escherichia coli	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, F
		- Escherichia coli	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 H
		- Enterococcus spp.	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Seawater	- Fecal Coliforms	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, E
		- Fecal Coliforms	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 D
		- Fecal Streptococcus	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C
		- Salmonella spp.	ISO 19250 : 2010
		Detected or not detected/100 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	Seawater	- Standard Plate Count	Standard Methods for the Examination
(cont.)		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9215 B
		- Staphylococcus aureus	In - house method : STM No.14-039
		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9213 B and FDA Bacteriological
			Analytical Manual online, 2016, Chapter 12
		- Hexavalent chromium	Standard Methods for the Examination
		0.01 mg/L to 400 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 3500-Cr (B)

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

: Testing - 0166

Accreditation Number

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Clostridium perfringens	In - house method : STM No.14-017
		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9260 A, 9278 B and FDA Bacteriological
			Analytical Manual online, 2001, Chapter 16
		- Coliforms	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 B
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Escherichia coli	Standard Methods for the Examination
(cont.)		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 H
		- Escherichia coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, F
		- Enterococcus spp.	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Fecal Coliforms	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, E
		- Fecal Streptococcus	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C
		- Salmonella spp.	ISO 19250 : 2010
		Detected or not detected/100 mL	
		- Standard Plate Count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9215 B

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Staphylococcus aureus	In - house method : STM No.14-039
(cont.)		CFU/100 mL	based on Standard Methods for the
		Detected or not detected	Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9213 B and FDA Bacteriological
			Analytical Manual online, 2016, Chapter 12
		- Vibrio cholerae	Standard Methods for the Examination
		Detected or not detected	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		- Vibrio parahaemolyticus	part 9278 A, B
		Detected or not detected	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

Address : 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Aluminium	Standard Methods for the Examination
(cont.)		0.005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Antimony	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Arsenic	
		0.0005 mg/L to 15 mg/L	
		- Barium	
		0.0005 mg/L to 15 mg/L	
		- Beryllium	
		0.0005 mg/L to 15 mg/L	
		- Boron	
		0.005 mg/L to 15 mg/L	
		- Cadmium	
		0.0005 mg/L to 15 mg/L	
		- Calcium	
		0.05 mg/L to 1 000 mg/L	

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Chromium	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Cobalt	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Copper	
		0.0005 mg/L to 15 mg/L	
		- Iron	
		0.005 mg/L to 15 mg/L	
		- Lead	
		0.0005 mg/L to 15 mg/L	
		- Magnesium	
		0.05 mg/L to 1 000 mg/L	
		- Manganese	
		0.0005 mg/L to 15 mg/L	
		- Mercury	
		0.0005 mg/L to 0.1 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

Address

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Molybdenum	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Nickel	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Phosphorus	
		0.05 mg/L to 1 000 mg/L	
		- Potassium	
		0.05 mg/L to 1 000 mg/L	
		- Selenium	
		0.0005 mg/L to 15 mg/L	
		- Silver	
		0.0005 mg/L to 15 mg/L	
		- Sodium	
		0.05 mg/L to 1 000 mg/L	
		- Strontium	
		0.0005 mg/L to 15 mg/L	

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

Address : 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Tellurium	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Thallium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Tin	
		0.0005 mg/L to 15 mg/L	
		- Titanium	
		0.005 mg/L to 15 mg/L	
		- Vanadium	
		0.0005 mg/L to 15 mg/L	
		- Zinc	
		0.005 mg/L to 15 mg/L	
		- Mercury	In - house method : STM No.13-036
		0.0005 mg/L to 0.1 mg/L	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Free chlorine	Standard Methods for the Examination
(cont.)		0.1 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-Cl (F)
		- рН	Standard Methods for the Examination
		4.0 to 10.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-H <sup><math>+</math></sup> B
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		5 mg/L to 2 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
4	Bottled drinking water	- Total hardness	Standard Methods for the Examination
(cont.)		(Calculated as CaCO <sub>3</sub> )	of Water and Wastewater, APHA,
		1 mg/L to 1 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2340 C
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		5 mg/L to 2 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 B
		- Turbidity	Standard Methods for the Examination
		0.1 NTU to 100 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2130 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Clostridium perfringens	In - house method : STM No.14-017
		Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater.
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9260 A, 9274 B and FDA Bacteriological
			Analytical Manual online, 2001, Chapter 16
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B
		- Coliforms	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 B

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Escherichia coli	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, F
		- Escherichia coli	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 H
		- Enterococcus spp.	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Fecal Coliforms	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, E
		- Fecal Streptococcus	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C
		- Salmonella spp.	ISO 19250 : 2010
		Detected or not detected/100 mL	
		- Standard Plate Count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9215 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Staphylococcus aureus	In - house method : STM No.14-039
(cont.)		CFU/100 mL	based on Standard Methods for the
		Detected or not detected/100 mL	Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9213 B and FDA Bacteriological
			Analytical Manual online, 2016, Chapter 12
		- Vibrio cholerae	Standard Methods for the Examination
		Detected or not detected/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		- Vibrio parahaemolyticus	part 9278 A, B
		Detected or not detected	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

: Testing - 0166

Accreditation Number

: 🗹 Permanent Laboratory Status Site Temporary Mobile Item Test Material / Test Item / Test Method / Number Product Range of Testing Technique Used 5 Drinking water - Aluminium Standard Methods for the Examination (cont.) 0.005 mg/L to 15 mg/L of Water and Wastewater, APHA, AWWA & WEF, 24<sup>th</sup> ed., 2023, - Antimony 0.0005 mg/L to 15 mg/L part 3125 B, 3030 F - Arsenic 0.0005 mg/L to 15 mg/L - Barium 0.0005 mg/L to 15 mg/L - Beryllium 0.0005 mg/L to 15 mg/L - Boron 0.005 mg/L to 15 mg/L - Cadmium 0.0005 mg/L to 15 mg/L - Calcium 0.05 mg/L to 1 000 mg/L

### Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

Address

Accreditation Number

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Chromium	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Cobalt	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Copper	
		0.0005 mg/L to 15 mg/L	
		- Iron	
		0.005 mg/L to 15 mg/L	
		- Lead	
		0.0005 mg/L to 15 mg/L	
		- Magnesium	
		0.05 mg/L to 1 000 mg/L	
		- Manganese	
		0.0005 mg/L to 15 mg/L	
		- Mercury	
		0.0005 mg/L to 0.1 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Molybdenum	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Nickel	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Phosphorus	
		0.05 mg/L to 1 000 mg/L	
		- Potassium	
		0.05 mg/L to 1 000 mg/L	
		- Selenium	
		0.0005 mg/L to 15 mg/L	
		- Silver	
		0.0005 mg/L to 15 mg/L	
		- Sodium	
		0.05 mg/L to 1 000 mg/L	
		- Strontium	
		0.0005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch) Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Tellurium	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Thallium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Tin	
		0.0005 mg/L to 15 mg/L	
		- Titanium	
		0.005 mg/L to 15 mg/L	
		- Vanadium	
		0.0005 mg/L to 15 mg/L	
		- Zinc	
		0.005 mg/L to 15 mg/L	
		- Mercury	In - house method : STM No.13-036
		0.0005 mg/L to 0.1 mg/L	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

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Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Free chlorine	Standard Methods for the Examination
(cont.)		0.1 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-Cl (F)
		- рН	Standard Methods for the Examination
		4.0 to 10.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-H $^{+}$ B
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 °C	of Water and Wastewater, APHA,
		5 mg/L to 2 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Drinking water	- Total hardness	Standard Methods for the Examination
(cont.)		(Calculated as CaCO <sub>3</sub> )	of Water and Wastewater, APHA,
		1 mg/L to 1 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2340 C
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		5 mg/L to 2 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 B
		- Turbidity	Standard Methods for the Examination
		0.1 NTU to 100 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2130 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Aluminium	Standard Methods for the Examination
		0.005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Antimony	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Arsenic	
		0.0005 mg/L to 15 mg/L	
		- Barium	
		0.0005 mg/L to 15 mg/L	
		- Beryllium	
		0.0005 mg/L to 15 mg/L	
		- Boron	
		0.005 mg/L to 15 mg/L	
		- Cadmium	
		0.0005 mg/L to 15 mg/L	
		- Calcium	
		0.05 mg/L to 1 000 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Chromium	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Cobalt	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Copper	
		0.0005 mg/L to 15 mg/L	
		- Iron	
		0.005 mg/L to 15 mg/L	
		- Lead	
		0.0005 mg/L to 15 mg/L	
		- Magnesium	
		0.05 mg/L to 1 000 mg/L	
		- Manganese	
		0.0005 mg/L to 15 mg/L	
		- Mercury	
		0.0005 mg/L to 0.1 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Molybdenum	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Nickel	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Phosphorus	
		0.05 mg/L to 1 000 mg/L	
		- Potassium	
		0.05 mg/L to 1 000 mg/L	
		- Selenium	
		0.0005 mg/L to 15 mg/L	
		- Silver	
		0.0005 mg/L to 15 mg/L	
		- Sodium	
		0.05 mg/L to 1 000 mg/L	
		- Strontium	
		0.0005 mg/L to 15 mg/L	

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Tellurium	Standard Methods for the Examination
(cont.)		0.0005 mg/L to 15 mg/L	of Water and Wastewater, APHA,
		- Thallium	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		0.0005 mg/L to 15 mg/L	part 3125 B, 3030 F
		- Tin	
		0.0005 mg/L to 15 mg/L	
		- Titanium	
		0.005 mg/L to 15 mg/L	
		- Vanadium	
		0.0005 mg/L to 15 mg/L	
		- Zinc	
		0.005 mg/L to 15 mg/L	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

: Testing - 0166

Accreditation Number

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Mercury	In - house method : STM No.13-036
(cont.)		0.0005 mg/L to 0.1 mg/L	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473
		- Free chlorine	Standard Methods for the Examination
		0.1 mg/L to 10 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			4500-Cl (F)
		- рН	Standard Methods for the Examination
		4.0 to 10.0	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 4500-H <sup><math>+</math></sup> B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Total dissolved solids	Standard Methods for the Examination
(cont.)		dried at 180 ℃	of Water and Wastewater, APHA,
		5 mg/L to 2 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 C
		- Total hardness	In – house method : STM No.13-017
		(Calculated as CaCO <sub>3</sub> )	based on Standard Methods for the
		1 mg/L to 1 000 mg/L	Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2340 C
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		5 mg/L to 2 000 mg/L	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2540 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Turbidity	Standard Methods for the Examination
(cont.)		0.1 NTU to 100 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 2130 B
		- Clostridium perfringens	In - house method : STM No.14-017
		Detected or not detected/100 mL	based on based on Standard Methods for
			the Examination of Water and Wastewater
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9260 A, 9274 B and FDA Bacteriological
			Analytical Manual online, 2001, Chapter 16
		- Coliforms	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 B

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Coliforms	Standard Methods for the Examination
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B
		- Escherichia coli	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9222 H
		- Escherichia coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, F

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

 Laboratory Name
 : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

Address : 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Enterococcus spp.	Standard Methods for the Examination
(cont.)		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C
		- Fecal Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
		Detected or not detected/100 mL	AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9221 B, E
		- Fecal Streptococcus	Standard Methods for the Examination
		CFU/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9230 C

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	🗖 Temporary 🔲 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Salmonella spp.	ISO 19250 : 2010
(cont.)		Detected or not detected/100 mL	
		- Standard plate count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9215 B
		- Staphylococcus aureus	In - house method : STM No.14-039
		CFU/100 mL	based on Standard Methods for the
		Detected or not detected/100 mL	Examination of Water and Wastewater,
			APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023,
			part 9213 B and FDA Bacteriological
			Analytical Manual online, 2016, Chapter 12

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
A -   -	114/1 Mars O. Kamada and starting David Tanahara David Dhima Anarahara Ulat Vai

Address : 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	📙 Temporary 🔛 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	lce	- Vibrio cholerae	Standard Methods for the Examination
(cont.)		Detected or not detected/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 24 <sup>th</sup> ed., 2023,
		- Vibrio parahaemolyticus	part 9278 A, B
		Detected or not detected/100 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)	
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,	

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

-\_ Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Aluminium	In – house method : STM No.13-011
		0.10 mg/kg to 500 mg/kg	based on AOAC official Methods of
		- Antimony	Analysis, 22 <sup>nd</sup> ed., 2023,
		0.01 mg/kg to 10 mg/kg	method 2011.19
		- Arsenic	
		0.01 mg/kg to 10 mg/kg	
		- Cadmium	
		0.01 mg/kg to 10 mg/kg	
		- Calcium	
		20 mg/kg to 25 000 mg/kg	
		- Chromium	
		0.01 mg/kg to 10 mg/kg	
		- Copper	
		0.01 mg/kg to 500 mg/kg	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Iron	In – house method : STM No.13-011
(cont.)		0.10 mg/kg to 500 mg/kg	based on AOAC official Methods of
		- Lead	Analysis, 22 <sup>nd</sup> ed., 2023,
		0.01 mg/kg to 10 mg/kg	method 2011.19
		- Magnesium	
		20 mg/kg to 25 000 mg/kg	
		- Manganese	
		0.01 mg/kg to 500 mg/kg	
		- Molybdenum	
		0.01 mg/kg to 10 mg/kg	
		- Phosphorus	
		20 mg/kg to 25 000 mg/kg	
		- Potassium	
		20 mg/kg to 25 000 mg/kg	
		- Selenium	
		0.01 mg/kg to 10 mg/kg	

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number : Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Sodium	In – house method : STM No.13-011
(cont.)		20 mg/kg to 25 000 mg/kg	based on AOAC official Methods of
		- Tin	Analysis, 22 <sup>nd</sup> ed., 2023,
		0.10 mg/kg to 500 mg/kg	method 2011.19
		- Zinc	
		0.10 mg/kg to 500 mg/kg	
		- Arsenic	
		(Calculated as As <sub>2</sub> O <sub>3</sub> )	
		0.02 mg/kg to 13 mg/kg	
		- Sodium	
		(Calculated as NaCl)	
		50 mg/kg to 62 000 mg/kg	
		- Phosphorus	
		(Calculated as $P_2O_5$ )	
		50 mg/kg to 57 000 mg/kg	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

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Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Phosphorus	In – house method : STM No.13-011
(cont.)		(Calculated as $PO_4^{3-}$ )	based on AOAC official Methods of
		70 mg/kg to 76 000 mg/kg	Analysis, 22 <sup>nd</sup> ed., 2023,
			method 2011.19
		- Mercury	In - house method : STM No.13-012
		0.005 mg/kg to 5 mg/kg	based on U.S. Environmental Protection
			Agency, 2007, Method 7473
		- Ash	AOAC Official Methods of Analysis
		0.20 g/100 g to 40.0 g/100 g	22 <sup>nd</sup> ed., 2023, method 942.05
		- Carbohydrate	Method of analysis for Nutrition
		(By calculation)	Labeling, 1993, page 106
		- Total calories	
		(By calculation)	

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

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

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	🗖 Temporary 🔲 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Fat	In - house method : STM No.13-033
(cont.)		0.30 g/100 g to 45.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 954.02
		- Fiber	In - house method : STM No.13-035
		0.01 g/100 g to 40.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 978.10
		- Metabolizable energy	AAFCO Association of American Feed
		(By calculation)	Control Officials 2019, page 147-148

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number : Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Moisture	AOAC Official Methods of Analysis,
(cont.)		2.00 g/100 g to 91.0 g/100 g	22 <sup>nd</sup> ed., 2023, method 930.15
		- Total solids	
		9.00 g/100 g to 98.0 g/100 g	
		- Protein	In - house method : STM No.13-034
		0.10 g/100 g to 60.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 992.15
		- Total nitrogen	
		0.01 g/100 g to 9.60 g/100 g	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Feeding stuffs	- Salt	In - house method : STM No.13-027
(cont.)		(Calculated as NaCl)	based on AOAC Official Methods of
		0.12 g/100 g to 64.0 g/100 g	Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09
		- Salt	
		(Calculated as Cl <sup>-</sup> )	
		0.07 g/100 g to 38.8 g/100 g	
		- Sodium Chloride	
		0.12 g/100 g to 64.0 g/100 g	
		- Chloride	
		0.07 g/100 g to 38.8 g/100 g	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Aerobic plate count	FDA Bacteriological Analytical Manual
		CFU/g	online, 2001, Chapter 3
		CFU/mL	
		- Bacillus cereus	FDA Bacteriological Analytical Manual
		CFU/g	online, 2020, Chapter 14
		CFU/mL	
		- Clostridium perfringens	FDA Bacteriological Analytical Manual
		CFU/g	online, 2001, Chapter 16
		CFU/mL	
		Detected or not detected/	
		0.001 g to 1 g, 10 g,	
		0.001 mL to 1 mL, 10 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	📙 Temporary 🔛 Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Coliforms	FDA Bacteriological Analytical Manual
(cont.)		CFU/g	online, 2020, Chapter 4
		CFU/mL	
		MPN/g	
		MPN/mL	
		Detected or not detected/	
		0.001 g to 0.1 g,	
		0.001 mL to 0.1 mL	
		- Escherichia coli	FDA Bacteriological Analytical Manual
		CFU/g	online, 2020, Chapter 4
		CFU/mL	
		MPN/g	
		MPN/mL	
		Detected or not detected/	
		0.001 g to 0.1 g,	
		0.001 mL to 0.1 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Enterococcus spp.	Compendium of Methodss for the
(cont.)		CFU/g	Microbiological Examination of Foods
		CFU/mL	(APHA), 5 <sup>th</sup> ed., 2015, Chapter 10
		- Fecal Coliforms	FDA Bacteriological Analytical Manual
		MPN/g	online, 2020, Chapter 4
		MPN/mL	onane, 2020, chapter 4
		Detected or not detected/	
		0.001 g to 0.1 g,	
		0.001 g to 0.1 g,	
		0.001 me to 0.1 me	
		- Fecal Streptococcus	Compendium of Methodss for the
		CFU/g	Microbiological Examination of Foods
		CFU/mL	(APHA), 5 <sup>th</sup> ed., 2015, Chapter 10

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch) Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number : Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Listeria monocytogens	FDA Bacteriological Analytical Manual
(cont.)		Detected or not detected/	online, 2017, Chapter 10
		25 g to 125 g,	
		25 mL to 125 mL	
		- <i>Listeria</i> spp.	FDA Bacteriological Analytical Manual
		Detected or not detected/	online, 2017, Chapter 10
		25 g to 125 g, 25 mL to 125 mL	
		- Listeria monocytogens	ISO 11290-1 : 2017
		Detected or not detected/	
		25 g to 125 g, 25 mL to 125 mL	
		- <i>Listeria</i> spp.	
		Detected or not detected/	
		25 g to 125 g, 25 mL to 125 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch) Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Salmonella spp.	FDA Bacteriological Analytical Manual
(cont.)		Detected or not detected/	online, 2022, Chapter 5
		25 g to 1 500 g,	
		25 mL to 1 500 mL	
		- Salmonella spp.	ISO 6579-1 : 2017 / Amd.1 : 2020
		Detected or not detected/	
		25 g to 1 500 g,	
		25 mL to 1 500 mL	
		- Staphylococcus aureus	FDA Bacteriological Analytical Manual
		CFU/g	online, 2016, Chapter 12
		CFU/mL	
		MPN/g	
		MPN/mL	
		Detected or not detected/	
		0.0001 g to 100 g,	
		0.001 mL to 100 mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Vibrio cholerae	FDA Bacteriological Analytical Manual
(cont.)		Detected or not detected/	online, 2004, Chapter 9
		25 g to 125 g,	
		25 mL to 125 mL	
		- Vibrio parahaemolyticus	
		MPN/g	
		MPN/mL	
		Detected or not detected/	
		25 g to 125 g,	
		25 mL to 125 mL	
		- Yeast and Mold	FDA Bacteriological Analytical Manual
		CFU/g	online, 2001, Chapter 18
		CFU/mL	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Aluminium	In – house method : STM No.13-011
(cont.)	- Meat and meat products	0.10 mg/kg to 500 mg/kg	based on AOAC official Methods of
	- Poultry and	- Antimony	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	poultry products	0.01 mg/kg to 10 mg/kg	
	- Fish and fish products	- Arsenic	
	- Vegetables, Fruits	0.01 mg/kg to 10 mg/kg	
	and their products	- Cadmium	
	- Cereal and cereal products	0.01 mg/kg to 10 mg/kg	
	- Snack	- Chromium	
	- Tea, coffee and cocoa	0.01 mg/kg to 10 mg/kg	
	- Flavoring agents	- Copper	
	- Sauce	0.01 mg/kg to 500 mg/kg	
	- Fish sauce	- Iron	
		0.10 mg/kg to 500 mg/kg	
		- Lead	
		0.01 mg/kg to 10 mg/kg	
		- Manganese	
		0.01 mg/kg to 500 mg/kg	

## Initial Issue Date 4<sup>th</sup> April 2018

#### Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Molybdenum	In – house method : STM No.13-011
(cont.)	- Meat and meat products	0.01 mg/kg to 10 mg/kg	based on AOAC official Methods of
	- Poultry and	- Selenium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	poultry products	0.01 mg/kg to 10 mg/kg	
	- Fish and fish products	- Tin	
	- Vegetables, Fruits	0.10 mg/kg to 500 mg/kg	
	and their products	- Zinc	
	- Cereal and cereal products	0.10 mg/kg to 500 mg/kg	
	- Snack	- Arsenic	
	- Tea, coffee and cocoa	(Calculated as As <sub>2</sub> O <sub>3</sub> )	
	- Flavoring agents	0.02 mg/kg to 13 mg/kg	
	- Sauce		
	- Fish sauce	- Mercury	In - house method : STM No.13-012
		0.005 mg/kg to 5 mg/kg	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name : ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch) Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Calcium	In – house method : STM No.13-011
(cont.)	- Meat and meat products	20 mg/kg to 25 000 mg/kg	based on AOAC official Methods of
	- Poultry and	- Magnesium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	poultry products	20 mg/kg to 25 000 mg/kg	
	- Fish and fish products	- Phosphorus	
		20 mg/kg to 25 000 mg/kg	
		- Potassium	
		20 mg/kg to 25 000 mg/kg	
		- Sodium	
		20 mg/kg to 25 000 mg/kg	
		- Sodium	
		(Calculated as NaCl)	
		50 mg/kg to 62 000 mg/kg	
		- Phosphorus	
		(Calculated as P <sub>2</sub> O <sub>5</sub> )	
		50 mg/kg to 57 000 mg/kg	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary     Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Phosphorus	In – house method : STM No.13-011
(cont.)	- Meat and meat products	(Calculated as $PO_4^{3-}$ )	based on AOAC official Methods of
	- Poultry and	70 mg/kg to 76 000 mg/kg	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	poultry products		
	- Fish and fish products	- Protein	In - house method : STM No.13-034
		0.10 g/100 g to 60.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 992.15
		- Total nitrogen	
		0.01 g/100 g to 9.60 g/100 g	
		- Salt	In - house method : STM No.13-027
		(Calculated as NaCl)	based on AOAC Official Methods of
		0.12 g/100 g to 64.0 g/100 g	Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)Address: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Salt	In - house method : STM No.13-027
(cont.)	- Meat and meat products	(Calculated as Cl <sup>-</sup> )	based on AOAC Official Methods of
	- Poultry and	0.07 g/100 g to 38.8 g/100 g	Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09
	poultry products		
	- Fish and fish products	- Sodium Chloride	
		0.12 g/100 g to 64.0 g/100 g	
		- Chloride	
		0.07 g/100 g to 38.8 g/100 g	
		- Fat	In - house method : STM No.13-032
		0.20 g/100 g to 45.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 922.06

### Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

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

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ry Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Ash	AOAC Official Methods of Analysis,
(cont.)	- Seafood and	0.40 g/100 g to 27.0 g/100 g	22 <sup>nd</sup> ed., 2023, method 938.08
	seafood products		
		- Moisture	AOAC Official Methods of Analysis,
		2.10 g/100 g to 89.0 g/100 g	22 <sup>nd</sup> ed., 2023, method 952.08
		- Total solids	
		11.0 g/100 g to 97.9 g/100 g	
		- Carbohydrate	Method of analysis for Nutrition Labeling,
		(By calculation)	1993, page 106
		- Total calories	
		(By calculation)	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Sulfur dioxide	In - house method : STM No.13-044
(cont.)	- Seafood and	2.00 mg/kg to 240 mg/kg	based on AOAC Official Methods of
	seafood products		Analysis, 22 <sup>nd</sup> ed., 2023, method 990.28
	- Aquatic animals		
	and products	- Polyphosphates	In - house method : STM No.13-045
		(Calculated as $P_2O_5$ )	based on Laboratory Manual on Analysis
		0.10 g/100 g to 1.14 g/100 g	Methods and Procedures for Fish And
			Products, 2 <sup>nd</sup> ed., 1992, Marine Fisheries
		- Total Phosphorus	Research Department Center, Singapore
		0.05 g/100 g to 0.50 g/100 g	and Pearson's Chemical Analysis of Foods,
			8 <sup>th</sup> ed., 1981, page 29 – 31
		- Arsenic	In – house method : STM No.13-011
		0.01 mg/kg to 10 mg/kg	based on AOAC official Methods of
		- Cadmium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.01 mg/kg to 10 mg/kg	
		- Lead	
		0.01 mg/kg to 10 mg/kg	

# Initial Issue Date 4<sup>th</sup> April 2018

#### Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laborato	ory Status	: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Mercury	In - house method : STM No.13-012
(cont.)	- Seafood and	0.005 mg/kg to 5 mg/kg	based on United State Environmental
	seafood products		Protection Agency, 2007, EPA,
	- Aquatic animals		method 7473
	and products		
		- Protein	In - house method : STM No.13-034
		0.10 g/100 g to 60.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 992.15
		- Total nitrogen	
		0.01 g/100 g to 9.60 g/100 g	
		- Salt	In - house method : STM No.13-027
		(Calculated as NaCl)	based on AOAC Official Methods of
		0.12 g/100 g to 64.0 g/100 g	Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)Address: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Salt	In - house method : STM No.13-027
(cont.)	- Seafood and	(Calculated as Cl <sup>-</sup> )	based on AOAC Official Methods of
	seafood products	0.07 g/100 g to 38.8 g/100 g	Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09
	- Aquatic animals		
	and products	- Sodium Chloride	
		0.12 g/100 g to 64.0 g/100 g	
		- Chloride	
		0.07 g/100 g to 38.8 g/100 g	
		- Fat	In - house method : STM No.13-032
		0.20 g/100 g to 45.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 922.06

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Calcium	In – house method : STM No.13-011
(cont.)	- Vegetables, Fruits	20 mg/kg to 25 000 mg/kg	based on AOAC official Methods of
	and products	- Magnesium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	- Cereal and products	20 mg/kg to 25 000 mg/kg	
	- Snack	- Phosphorus	
	- Tea, coffee and cocoa	20 mg/kg to 25 000 mg/kg	
		- Potassium	
		20 mg/kg to 25 000 mg/kg	
		- Sodium	
		20 mg/kg to 25 000 mg/kg	
	- Flavoring agents	- Calcium	In – house method : STM No.13-011
	- Sauce	20 mg/kg to 25 000 mg/kg	based on AOAC official Methods of
	- Fish sauce	- Magnesium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		20 mg/kg to 25 000 mg/kg	
		- Phosphorus	
		20 mg/kg to 25 000 mg/kg	

# Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Potassium	In – house method : STM No.13-011
(cont.)	- Flavoring agents	20 mg/kg to 25 000 mg/kg	based on AOAC official Methods of
	- Sauce	- Sodium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	- Fish sauce	150 mg/kg to 25 000 mg/kg	
		- Sodium	
		(Calculated as NaCl)	
		400 mg/kg to 62 000 mg/kg	
	- Vegetables, Fruits	- Phosphorus	In - house method : STM No.13-011
	and products	(Calculated as P <sub>2</sub> O <sub>5</sub> )	based on AOAC Official Methods of
	- Cereal and products	50 mg/kg to 57 000 mg/kg	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
	- Snack		
	- Tea, coffee and cocoa	- Phosphorus	
	- Flavoring agents	(Calculated as $PO_4^{3-}$ )	
	- Sauce	70 mg/kg to 76 000 mg/kg	
	- Fish sauce		
	- Milk and milk products		
	- Fat and oils		

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name	: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)
Address	: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Salt (Calculated as NaCl)	In - house method : STM No.13-027
(cont.)	- Vegetables, Fruits	0.12 g/100 g to 64.0 g/100 g	based on AOAC Official Methods of
	and their products	- Salt (Calculated as Cl)	Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09
	- Sauce	0.07 g/100 g to 38.8 g/100 g	
	- Fish sauce	- Sodium Chloride	
		0.12 g/100 g to 64.0 g/100 g	
		- Chloride	
		0.07 g/100 g to 38.8 g/100 g	
	- Cereal and cereal products	- Protein	In - house method : STM No.13-034
		0.10 g/100 to 60.0 g/100 g	based on AOAC Official Methods of
			Analysis, 22 <sup>nd</sup> ed., 2023, method 992.15
		- Total nitrogen	
		0.01 g/100 g to 9.60 g/100 g	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Aluminium	In – house method : STM No.13-011
(cont.)	- Beverage	0.10 mg/kg to 500 mg/kg	based on AOAC official Methods of
		- Antimony	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.01 mg/kg to 10 mg/kg	
		- Arsenic	
		0.01 mg/kg to 10 mg/kg	
		- Cadmium	
		0.01 mg/kg to 10 mg/kg	
		- Calcium	
		3 mg/kg to 25 000 mg/kg	
		- Chromium	
		0.01 mg/kg to 10 mg/kg	
		- Copper	
		0.01 mg/kg to 500 mg/kg	

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Iron	In – house method : STM No.13-011
(cont.)	- Beverage	0.10 mg/kg to 500 mg/kg	based on AOAC official Methods of
		- Lead	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.01 mg/kg to 10 mg/kg	
		- Magnesium	
		3 mg/kg to 25 000 mg/kg	
		- Manganese	
		0.01 mg/kg to 500 mg/kg	
		- Molybdenum	
		0.01 mg/kg to 10 mg/kg	
		- Phosphorus	
		3 mg/kg to 25 000 mg/kg	
		- Potassium	
		3 mg/kg to 25 000 mg/kg	
		- Selenium	
		0.01 mg/kg to 10 mg/kg	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

Laboratory Name

Address

: ALS Laboratory Group (Thailand) Co., Ltd. (Songkhla Branch)

: 114/1 Moo 8, Karnchanawanich Road, Tambon Ban Phru, Amphoe Hat Yai,

Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Sodium	In – house method : STM No.13-011
(cont.)	- Beverage	3 mg/kg to 25 000 mg/kg	based on AOAC official Methods of
		- Tin	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.10 mg/kg to 500 mg/kg	
		- Zinc	
		0.10 mg/kg to 500 mg/kg	
		- Sodium	
		(Calculated as NaCl)	
		8 mg/kg to 62 000 mg/kg	
		- Phosphorus	
		(Calculated as $P_2O_5$ )	
		7 mg/kg to 57 000 mg/kg	
		- Phosphorus	
		(Calculated as $PO_4^{3-}$ )	
		10 mg/kg to 76 000 mg/kg	

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Arsenic	In – house method : STM No.13-011
(cont.)	- Beverage	(Calculated as As <sub>2</sub> O <sub>3</sub> )	based on AOAC official Methods of
		0.02 mg/kg to 13.0 mg/kg	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		- Mercury	In - house method : STM No.13-012
		0.005 mg/kg to 5 mg/kg	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Aluminium	In – house method : STM No.13-011
(cont.)	- Milk and milk products	0.10 mg/kg to 500 mg/kg	based on AOAC official Methods of
		- Antimony	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.01 mg/kg to 10 mg/kg	
		- Arsenic	
		0.01 mg/kg to 10 mg/kg	
		- Cadmium	
		0.01 mg/kg to 10 mg/kg	
		- Calcium	
		20 mg/kg to 25 000 mg/kg	
		- Chromium	
		0.01 mg/kg to 10 mg/kg	
		- Copper	
		0.01 mg/kg to 500 mg/kg	
		- Iron	
		0.10 mg/kg to 500 mg/kg	

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Lead	In – house method : STM No.13-011
(cont.)	- Milk and milk products	0.01 mg/kg to 10 mg/kg	based on AOAC official Methods of
		- Magnesium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		20 mg/kg to 25 000 mg/kg	
		- Manganese	
		0.01 mg/kg to 500 mg/kg	
		- Molybdenum	
		0.01 mg/kg to 10 mg/kg	
		- Phosphorus	
		20 mg/kg to 25 000 mg/kg	
		- Potassium	
		20 mg/kg to 25 000 mg/kg	
		- Selenium	
		0.01 mg/kg to 10 mg/kg	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Food	- Sodium	In - house method : STM No.13-011
(cont.)	- Milk and milk products	20 mg/kg to 25 000 mg/kg	based on AOAC Official Methods of
		- Tin	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.10 mg/kg to 500 mg/kg	
		- Zinc	
		0.10 mg/kg to 500 mg/kg	
		- Sodium	
		(Calculated as NaCl)	
		50 mg/kg to 62 000 mg/kg	
		- Arsenic	
		(Calculated as As <sub>2</sub> O <sub>3</sub> )	
		0.02 mg/kg to 13.0 mg/kg	
		- Mercury	In - house method : STM No.13-012
		0.005 mg/kg to 5 mg/kg	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

Address

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Fat and oils	- Aluminium	In - house method : STM No.13-011
		0.10 mg/kg to 500 mg/kg	based on AOAC Official Methods of
		- Antimony	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.01 mg/kg to 10 mg/kg	
		- Arsenic	
		0.01 mg/kg to 10 mg/kg	
		- Cadmium	
		0.01 mg/kg to 10 mg/kg	
		- Calcium	
		20 mg/kg to 25 000 mg/kg	
		- Chromium	
		0.01 mg/kg to 10 mg/kg	
		- Copper	
		0.01 mg/kg to 500 mg/kg	
		- Iron	
		0.10 mg/kg to 500 mg/kg	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

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Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Fat and oils	- Lead	In - house method : STM No.13-011
(cont.)		0.01 mg/kg to 10 mg/kg	based on AOAC Official Methods of
		- Magnesium	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		20 mg/kg to 25 000 mg/kg	
		- Manganese	
		0.01 mg/kg to 500 mg/kg	
		- Molybdenum	
		0.01 mg/kg to 10 mg/kg	
		- Phosphorus	
		20 mg/kg to 25 000 mg/kg	
		- Potassium	
		20 mg/kg to 25 000 mg/kg	
		- Selenium	
		0.01 mg/kg to 10 mg/kg	
		- Sodium	
		20 mg/kg to 25 000 mg/kg	

## Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Fat and oils	- Tin	In - house method : STM No.13-011
(cont.)		0.10 mg/kg to 500 mg/kg	based on AOAC Official Methods of
		- Zinc	Analysis, 22 <sup>nd</sup> ed., 2023, method 2011.19
		0.10 mg/kg to 500 mg/kg	
		- Sodium	
		(Calculated as NaCl)	
		50 mg/kg to 62 000 mg/kg	
		- Mercury	In - house method : STM No.13-012
		0.005 mg/kg to 5 mg/kg	based on United State Environmental
			Protection Agency, 2007, EPA,
			method 7473

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

: Testing - 0166

Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
10	- Food packaging	- Aerobic plate count	Compendium of Methods for the
	- Food contact material	CFU/50 cm <sup>2</sup>	Microbiological Examination of Foods,
	- Food contact surface	CFU/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
			and chapter 8
		- Coliforms	Compendium of Methods for the
		CFU/50 cm <sup>2</sup>	Microbiological Examination of Foods,
		CFU/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
		Detected or not detected/50 $\text{cm}^2$	and chapter 9
		Detected or not detected/unit	
		- Escherichia coli	
		CFU/50 cm <sup>2</sup>	
		CFU/unit	
		Detected or not detected/50 $\text{cm}^2$	
		Detected or not detected/unit	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

Accreditation Number

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Laboratory Status		: 🗹 Permanent 🛛 Site	Temporary D Mobile
ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
10	- Food packaging	- Salmonella spp.	Compendium of Methods for the
(cont.)	- Food contact material	Detected or not detected/50 $\text{cm}^2$	Microbiological Examination of Foods,
	- Food contact surface	Detected or not detected/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
			and chapter 36
		- Staphylococcus aureus	Compendium of Methods for the
		CFU/50 cm <sup>2</sup>	Microbiological Examination of Foods,
		CFU/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
		Detected or not detected/50 $\text{cm}^2$	and chapter 39
		Detected or not detected/unit	
		- Bacillus cereus	Compendium of Methods for the
		CFU/50 cm <sup>2</sup>	Microbiological Examination of Foods,
		CFU/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
		Detected or not detected/50 $\text{cm}^2$	and chapter 31
		Detected or not detected/unit	

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6

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Changwat Songkhla 90250

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ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
10	- Food packaging	- Clostridium perfringens	Compendium of Methods for the
(cont.)	- Food contact material	CFU/50 cm <sup>2</sup>	Microbiological Examination of Foods,
	- Food contact surface	CFU/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
		Detected or not detected/50 $\text{cm}^2$	and chapter 33
		Detected or not detected/unit	
		- Yeast and Mold	Compendium of Methods for the
		CFU/50 cm <sup>2</sup>	Microbiological Examination of Foods,
		CFU/unit	5 <sup>th</sup> ed., 2015, chapter 3 item 3.81
			and chapter 21

Initial Issue Date 4<sup>th</sup> April 2018

Issue Number 6