Name of Laboratory : The laboratory of TUV NORD (Thailand) Ltd.

: 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 Address

And INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road, Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number: Testing - 0286

Contact Person : Ms. SongKran Chikakul

Phone: 086-3938942

Fax: -

Email: SongKran@tuv-nord.com

: 7th November 2022 Initial Issue Date

: 21st July 2023 Issue Date

: 6th November 2026 Expired date

Standard : ISO/IEC 17025:2017

Reference No. : 0303/12105

Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and

INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Bottled drinking water	- Total Plate Count	Standard Methods for the Examination
		CFU/mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 9215 B
		- Coliforms	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 9221 B
		- Escherichia coli	Standard Methods for the Examination
		MPN/100 mL	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 9221 B, F

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and

INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status . E. Permanent E. Site E. Temporary E. Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Bottled drinking water	- Staphylococcus aureus	In - house method : TM-08-MIC-017		
(cont.)		CFU/100 mL	based on Standard Methods for the		
			Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 rd ed., 2017,		
			part 9213 B		
		- Salmonella spp.	Standard Methods for the Examination		
		Detected or not detected/100 mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9260 B		

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and

INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	_aboratory Status : ■ Permanent □ Site □ Temporary □ Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	Water	- Total Plate Count	Standard Methods for the Examination	
	- Process water	CFU/mL	of Water and Wastewater, APHA,	
	- Tap water		AWWA & WEF, 23 rd ed., 2017,	
	- Filtered water		part 9215 B	
		- Coliforms	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9221 B	
		- Escherichia coli	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9221 B, F	

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Issue Number 2

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

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

Laborator	Laboratory status . E remainent E site E remporary E Mobile					
Item	Test Material /	Test Item /	Test Method /			
Number	Product	Range of Testing	Technique Used			
2	Water	- Staphylococcus aureus	In - house method : TM-08-MIC-017			
(cont.)	- Process water	CFU/100 mL	based on Standard Methods for the			
	- Tap water		Examination of Water and Wastewater,			
	- Filtered water		APHA, AWWA & WEF, 23 rd ed., 2017,			
			part 9213 B			
		- Salmonella spp.	Standard Methods for the Examination			
		Detected or not detected/100 mL	of Water and Wastewater, APHA,			
			AWWA & WEF, 23 rd ed., 2017,			
			part 9260 B			
3	Surface water	- Total Plate Count	Standard Methods for the Examination			
		CFU/mL	of Water and Wastewater, APHA,			
			AWWA & WEF, 23 rd ed., 2017,			
			part 9215 B			

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and

INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status . D. Fermanent D. Site D. Femporary D. Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
3	Surface water	- Coliforms	Standard Methods for the Examination		
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9221 B		
4	lce	- Total Plate Count	Standard Methods for the Examination		
		CFU/mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9215 B		
		- Coliforms	Standard Methods for the Examination		
		MPN/100 mL	of Water and Wastewater, APHA,		
			AWWA & WEF, 23 rd ed., 2017,		
			part 9221 B		

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

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INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory states . — remainent — site — remporary — moste				
ltem	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
4	Ice	- Escherichia coli	Standard Methods for the Examination	
(cont.)		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9221 B, F	
		- Staphylococcus aureus	In-house method : TM-08-MIC-017	
		CFU/100 mL	based on Standard Methods for the	
			Examination of Water and Wastewater.	
			APHA, AWWA, WEF, 23 rd ed., 2017.	
			part 9213 B	
		- Salmonella spp.	Standard Methods for the Examination	
		Detected or not detected/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 9260 B	

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

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INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status . E. Permanent E. Site E. Temporary E. Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
5	Vegetable and fruit	- Total Plate Count	AOAC Official Methods of Analysis		
	- Fresh	CFU/g	22 nd ed, 2023, method 990.12		
	- Chilled				
	- Frozen		FDA Bacteriological Analytical Manual		
	- Processed		Online, 2001, Chapter 3		
		- Coliforms	AOAC Official Methods of Analysis		
		CFU/g	22 nd ed, 2023, method 991.14		
		- Coliforms	FDA Bacteriological Analytical Manual		
		MPN/g	Online, 2020, Chapter 4		
		- Escherichia coli	AOAC Official Methods of Analysis		
		CFU/g	22 nd ed, 2023, method 991.14		

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Scope of Testing Laboratory Accreditation

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile				
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
5	Vegetable and fruit	- Escherichia coli	FDA Bacteriological Analytical Manual	
(cont.)	- Fresh	MPN/g	Online, 2020, Chapter 4	
	- Chilled			
	- Frozen	- Yeast and Mold	AOAC Official Methods of Analysis	
	- Processed	CFU/g	22 nd ed, 2023, method 2014.05	
			FDA Bacteriological Analytical Manual	
			Online, 2001, Chapter 18	
		- Staphylococcus aureus	AOAC Official Methods of Analysis	
		CFU/g	22 nd ed, 2023, method 2003.07	
			FDA Bacteriological Analytical Manual	
			Online, 2016, Chapter 12	

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Scope of Testing Laboratory Accreditation

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Edborator	Laboratory status . El Fermanent El site El Femporary El Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
5	Vegetable and fruit	- Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020		
(cont.)	- Fresh	Detected or not detected/25 g			
	- Chilled		3M Molecular Detection Assay 2		
	- Frozen		MDA2SAL96		
	- Processed				
		- Listeria spp.	ISO 11290-1 : 2017		
		Detected or not detected/25 g			
		- Listeria monocytogenes	ISO 11290-1 : 2017		
		Detected or not detected/25 g			
			3M Molecular Detection Assay 2		
			MDA2LMO96		

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and

INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	Bakery Products	- Total Plate Count	AOAC Official Methods of Analysis
		CFU/g	22 nd ed, 2023, method 990.12
			FDA Bacteriological Analytical Manual
			Online, 2001, Chapter 3
		- Coliforms	AOAC Official Methods of Analysis
		CFU/g	22 nd ed, 2023, method 991.14
		- Escherichia coli	
		CFU/g	
		- Escherichia coli	FDA Bacteriological Analytical Manual
		MPN/g	Online, 2020, Chapter 4
		- Yeast and Mold	AOAC Official Methods of Analysis
		CFU/g	22 nd ed, 2023, method 2014.05

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

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

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INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
6	Bakery products	- Staphylococcus aureus	AOAC Official Methods of Analysis
(cont.)		CFU/g	22 nd ed, 2023, method 2003.07
			FDA Bacteriological Analytical Manual
			Online, 2016, Chapter 12
		- Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020
		Detected or not detected/25 g	
			3M Molecular Detection Assay 2
			MDA2SAL96
		- Clostridium perfringens	FDA Bacteriological Analytical Manual
		CFU/g	Online, 2001, Chapter 16
		- Bacillus cereus	FDA Bacteriological Analytical Manual
		CFU/g	Online, 2020, Chapter 14

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Issue Number 2

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

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
7	Beverage	- Coliforms	AOAC Official Methods of Analysis		
		CFU/mL	22 nd ed, 2023, method 991.14		
		- Escherichia coli			
		CFU/mL			
		- Yeast and Mold	AOAC Official Methods of Analysis		
		CFU/mL	22 nd ed, 2023, method 2014.05		
		- Staphylococcus aureus	FDA Bacteriological Analytical Manual		
		CFU/mL	Online, 2016, Chapter 12		
		- Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020		
		Detected or not detected/25 mL			

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Scope of Testing Laboratory Accreditation

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Beverage	- Clostridium perfringens	FDA Bacteriological Analytical Manual
(cont.)		CFU/mL	Online, 2001, Chapter 16
		- Bacillus cereus	FDA Bacteriological Analytical Manual
		CFU/mL	Online, 2020, Chapter 14
8	Ready to eat	- Total Plate Count	AOAC Official Methods of Analysis
		CFU/g	22 nd ed, 2023, method 990.12
			FDA Bacteriological Analytical Manual
			Online, 2001, Chapter 3
		_ , , , , ,	
		- Escherichia coli	FDA Bacteriological Analytical Manual
		MPN/g	Online, 2020, Chapter 4

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Scope of Testing Laboratory Accreditation

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Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Ready to eat	- Staphylococcus aureus	AOAC Official Methods of Analysis
(cont.)		CFU/g	22 nd ed, 2023, method 2003.07
			FDA Bacteriological Analytical Manual
			Online, 2016, Chapter 12
		- Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020
		Detected or not detected/25 g	
		- Listeria monocytogenes	ISO 11290-1 : 2017
		Detected or not detected/25 g	
		- Listeria spp.	
		Detected or not detected/25 g	

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Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
8	Ready to eat	- Clostridium perfringens	FDA Bacteriological Analytical Manual
(cont.)		CFU/g	Online, 2001, Chapter 16
		- Bacillus cereus	FDA Bacteriological Analytical Manual
		CFU/g	Online, 2020, Chapter 14
		- Vibrio cholerae	FDA Bacteriological Analytical Manual
		Detected or not detected/25 g	Online, 2004, Chapter 9
		- Vibrio parahaemolyticus	ISO 21872-1: 2017
		Detected or not detected/25 g	

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Scope of Testing Laboratory Accreditation

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Swab test	- Total Plate Count	Compendium of Methods for the
	- Surface swab	CFU/swab	Microbiological Examination of Food
			(APHA), 5 th ed. 2015, Chapter 3 and
			FDA Bacteriological Analytical Manual
			Online, 2001, Chapter 3
		- Salmonella spp.	Compendium of Methods for the
		Detected or not detected/swab	Microbiological Examination of Food
			(APHA), 5 th ed. 2015, Chapter 3 and
			ISO 6579-1 : 2017/Amd.1 : 2020
		- Listeria spp.	Compendium of Methods for the
		Detected or not detected/swab	Microbiological Examination of Food
			(APHA), 5 th ed. 2015, Chapter 3 and
			and ISO 11290-1 : 2017

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Swab test	- Listeria monocytogenes	Compendium of Methods for the
(cont.)	- Surface swab	Detected or not detected/swab	Microbiological Examination of Food
			(APHA), 5 th ed. 2015, Chapter 3 and
			and ISO 11290-1 : 2017
		- Staphylococcus aureus	Compendium of Methods for the
		CFU/swab	Microbiological Examination of Food
			(APHA), 5 th ed. 2015, Chapter 3 and
			FDA Bacteriological Analytical Manual
			Online, 2016, Chapter 12

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Scope of Testing Laboratory Accreditation

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
10	Sauce	- Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020
		Detected or not detected/25 g	
		- Staphylococcus aureus	FDA Bacteriological Analytical Manual
		CFU/g	Online, 2016, Chapter 12
		- Bacillus cereus	FDA Bacteriological Analytical Manual
		CFU/g	Online, 2020, Chapter 14
		- Clostridium perfringens	FDA Bacteriological Analytical Manual
		CFU/g	Online, 2001, Chapter 16
I			

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	y Status : 🛂 Perm	nanent 🗀 Site 🗀 Tempor	ary 🗀 Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
11	Food	- Ash	AOAC Official Methods of Analysis
	- Cereal and Products	0.002 g/100 g to 37.10 g/100 g	22 nd ed, 2023, method 945.18, 920.153,
	- Meat and Products		938.08, 940.26, 925.51, 923.03, 950.49,
	- Seafood and Products		945.39B, 920.93, 920.100, 972.15, 945.46,
	- Vegetable, Fruit		930.30, 920.117, 935.42, 941.12(A), 900.02
	and Products		
	- Beverage		
	- Flour and Products		
	- Snack		
	- Bakery Products		
	- Nuts and Nut products		
	- Coffee and Tea		
	- Eggs and egg products		

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Scope of Testing Laboratory Accreditation

Laboratory Name : The laboratory of TUV NORD (Thailand) Ltd.

Address : 141 Innovation Cluster 2 Tower D building, 3rd Floor, Room No. INC2D-305-310 and

INC2D-317-318, Moo 9, Thailand Science Park, Paholyothin Road,

Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
11	Food	- Ash	AOAC Official Methods of Analysis
(cont.)	- Frozen french-fried	0.002 g/100 g to 37.10 g/100 g	22 nd ed, 2023, method 945.18, 920.153,
	potatoes		938.08, 940.26, 925.51, 923.03, 950.49,
	- Cacao and products		945.39B, 920.93, 920.100, 972.15, 945.46,
	- Milk and products		930.30, 920.117, 935.42, 941.12(A), 900.02
	- Dairy and dairy		
	products		
	- Seasoning and		
	products		
12	Bottled drinking water	- Turbidity	Standard Methods for the Examination
		2.4 NTU to 787.2 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B

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Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
12	Bottled drinking water	- pH	Standard Methods for the Examination
(cont.)		6.5 to 9.4	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-H [†] B
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		30 mg/L to 960 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 ℃	of Water and Wastewater, APHA,
		56 mg/L to 5 900 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C

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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Eaboratory States : — remainent — Site — remporary — Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
12	Bottled drinking water	- Total hardness	Standard Methods for the Examination	
(cont.)		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,	
		10 mg/L to 480 mg/L	AWWA & WEF, 23 rd ed., 2017,	
			part 2340 C	
		- Chloride	Standard Methods for the Examination	
		10 mg/L to 100 mg/L	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 rd ed., 2017,	
			part 4500-Cl ⁻ B	
		- Silver	Standard Methods for the Examination	
		0.005 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,	
		- Aluminum	AWWA & WEF, 23 rd ed., 2017,	
		0.009 mg/L to 0.500 mg/L	part 3120 B, 3030 K	
		- Barium		
		0.005 mg/L to 0.500 mg/L		

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Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
12	Bottled drinking water	- Cadmium	Standard Methods for the Examination
(cont.)		0.001 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,
		- Chromium	AWWA & WEF, 23 rd ed., 2017,
		0.010 mg/L to 0.500 mg/L	part 3120 B, 3030 K
		- Copper	
		0.010 mg/L to 0.500 mg/L	
		- Iron	
		0.010 mg/L to 0.500 mg/L	
		- Manganese	
		0.005 mg/L to 0.500 mg/L	
		- Nickel	
		0.010 mg/L to 0.500 mg/L	
		- Lead	
		0.010 mg/L to 0.500 mg/L	
		- Zinc	
		0.010 mg/L to 0.500 mg/L	

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
13	Ice	- Turbidity	Standard Methods for the Examination
		2.4 NTU to 785.6 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B
		- pH	Standard Methods for the Examination
		6.7 to 8.5	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-H ⁺ B
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		30 mg/L to 1 020 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B

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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
13	lce	- Total dissolved solids	Standard Methods for the Examination
(cont.)		dried at 180 ℃	of Water and Wastewater, APHA,
		78 mg/L to 6 000 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		12 mg/L to 460 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C
		- Chloride	Standard Methods for the Examination
		10 mg/L to 100 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-Cl B
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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status : Medite Li Site Li Temporary Li Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
13	lce	- Silver	Standard Methods for the Examination	
(cont.)		0.005 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,	
		- Aluminum	AWWA & WEF, 23 rd ed., 2017,	
		0.009 mg/L to 0.500 mg/L	part 3120 B, 3030 K	
		- Barium		
		0.005 mg/L to 0.500 mg/L		
		- Cadmium		
		0.001 mg/L to 0.500 mg/L		
		- Chromium		
		0.010 mg/L to 0.500 mg/L		
		- Copper		
		0.009 mg/L to 0.500 mg/L		
		- Iron		
		0.009 mg/L to 0.500 mg/L		

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Scope of Testing Laboratory Accreditation

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Tambon Klongnueng, Amphoe Klongluang, Changwat Pathum Thani 12120

Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status . Le refinalient Le Site Le remporary Le Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
13	Ice	- Manganese	Standard Methods for the Examination	
(cont.)		0.005 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,	
		- Nickel	AWWA & WEF, 23 rd ed., 2017,	
		0.010 mg/L to 0.500 mg/L	part 3120 B, 3030 K	
		- Lead		
		0.009 mg/L to 0.500 mg/L		
		- Zinc		
		0.010 mg/L to 0.500 mg/L		

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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
14	Water	- Turbidity	Standard Methods for the Examination
		2.4 NTU to 789.2 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B
		- pH	Standard Methods for the Examination
		6.6 to 7.8	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-H ⁺ B
		- Total solids	Standard Methods for the Examination
		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		38 mg/L to 970 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B

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Accreditation Number : Testing - 0286

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
14	Water	- Total dissolved solids	Standard Methods for the Examination
(cont.)		dried at 180 ℃	of Water and Wastewater, APHA,
		76 mg/L to 6 000 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO ₃)	of Water and Wastewater, APHA,
		14 mg/L to 460 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2340 C
		- Chloride	Standard Methods for the Examination
		10 mg/L to 110 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-Cl B
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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
14	Water	- Silver	Standard Methods for the Examination
(cont.)		0.005 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,
		- Aluminum	AWWA & WEF, 23 rd ed., 2017,
		0.010 mg/L to 0.500 mg/L	part 3120 B, 3030 K
		- Barium	
		0.006 mg/L to 0.500 mg/L	
		- Cadmium	
		0.001 mg/L to 0.500 mg/L	
		- Chromium	
		0.010 mg/L to 0.500 mg/L	
		- Copper	
		0.009 mg/L to 0.500 mg/L	
		- Iron	
		0.010 mg/L to 0.500 mg/L	
		- Manganese	
		0.005 mg/L to 0.500 mg/L	

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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
14	Water	- Nickel	Standard Methods for the Examination
(cont.)		0.009 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,
		- Lead	AWWA & WEF, 23 rd ed., 2017,
		0.010 mg/L to 0.500 mg/L	part 3120 B, 3030 K
		- Zinc	
		0.009 mg/L to 0.500 mg/L	
15	Wastewater	- Turbidity	Standard Methods for the Examination
		2.7 NTU to 788.4 NTU	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 2130 B
		- pH	Standard Methods for the Examination
		4.2 to 9.8	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-H [†] B

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
15	Wastewater	- Total solids	Standard Methods for the Examination
(cont.)		dried from 103 °C to 105 °C	of Water and Wastewater, APHA,
		140 mg/L to 1 010 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 B
		- Total dissolved solids	Standard Methods for the Examination
		dried at 180 ℃	of Water and Wastewater, APHA,
		76 mg/L to 6 000 mg/L	AWWA & WEF, 23 rd ed., 2017,
			part 2540 C
		- Chloride	Standard Methods for the Examination
		11 mg/L to 110 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 rd ed., 2017,
			part 4500-Cl B

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Accreditation Number : Testing - 0286

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

ltem	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
15	Wastewater	- Silver	Standard Methods for the Examination
(cont.)		0.005 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,
		- Aluminum	AWWA & WEF, 23 rd ed., 2017,
		0.010 mg/L to 0.500 mg/L	part 3120 B, 3030 K
		- Barium	
		0.005 mg/L to 0.500 mg/L	
		- Cadmium	
		0.001 mg/L to 0.500 mg/L	
		- Chromium	
		0.010 mg/L to 0.500 mg/L	
		- Copper	
		0.010 mg/L to 0.500 mg/L	
		- Iron	
		0.010 mg/L to 0.500 mg/L	
		- Manganese	
		0.006 mg/L to 0.500 mg/L	

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Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
15	Wastewater	- Nickel	Standard Methods for the Examination
(cont.)		0.011 mg/L to 0.500 mg/L	of Water and Wastewater, APHA,
		- Lead	AWWA & WEF, 23 rd ed., 2017,
		0.010 mg/L to 0.500 mg/L	part 3120 B, 3030 K
		- Zinc	
		0.010 mg/L to 0.500 mg/L	

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