Name of Laboratory : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,
Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Contact Person : Siriporn Poomstitpong

Phone: 02-561-2267, 081-422-0602

Fax: -

Email: PoSiriporn@tops.co.th: 9<sup>th</sup> December 2022

Issue Date : 9<sup>th</sup> December 2022

Expired date : 9<sup>th</sup> December 2022 : 8<sup>th</sup> December 2026

Standard : ISO/IEC 17025:2017

Reference No. : 0303/18769

Initial Issue Date

### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : lacktriangle Permanent lacktriangle Site lacktriangle Temporary lacktriangle Mobile

	Laboratory States El remarche La Site La remporary La Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Drinking water and water	- Coliforms	Standard Methods for the Examination	
	in food processing	MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 9221 B	
		- E. coli	Standard Methods for the Examination	
		Detected or not detected/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 9221 B, D, F, G	
		- Salmonella spp.	AFNOR Validation, Certificate	
		Detected or not detected/100 mL	No. TRA 02/12-01/09	

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### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Drinking water and water	- Staphylococcus aureus	In – house method : T7.2-05
(cont.)	in food processing	Detected or not detected/100 mL	based on Standard Methods for the
			Examination of Water and Wastewater,
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 9213 B
		- pH	Standard Methods for the Examination
		6.5 to 8.5	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 4500 - H <sup>+</sup> B
		- Turbidity	United States Environmental
		0.5 NTU to 5.0 NTU	Protection Agency, 1993,
			EPA Method 180.1

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### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

	Laboratory states . Ear remarker Ear site . Ear remporary . Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Drinking water and water	- Total solids	Standard Methods for the Examination	
(cont.)	in food processing	dried at 103 °C to 105 °C	of Water and Wastewater, APHA,	
		20 mg/L to 1 000 mg/L	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 2540 B	
		- Total hardness	Standard Methods for the Examination	
		(Calculated as CaCO <sub>3</sub> )	of Water and Wastewater, APHA,	
		10 mg/L to 500 mg/L	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 2340 C	
		- Chloride	Standard Methods for the Examination	
		9.03 mg/L to 300 mg/L	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-Cl B	

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### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : lacktriangle Permanent lacktriangle Site lacktriangle Temporary lacktriangle Mobile

	aboratory status . El remarent L site L remporary L mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Drinking water and water	- Chloride	In - house method : T7.2-24	
(cont.)	in food processing	(Calculated as Chlorine)	based on Standard Methods for the	
		4.52 mg/L to 150 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-Cl <sup>-</sup> B	
		- Nitrate	Standard Methods for the Examination	
		(Calculated as nitrogen)	of Water and Wastewater, APHA,	
		0.2 mg/L to 4.0 mg/L	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-NO <sub>3</sub> D	
		- Fluoride	In - house method : T7.2-21	
		0.1 mg/L to 2.0 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-F <sup>-</sup> D	

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### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

	- Laboratory States - Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
1	Drinking water and water	- Fluoride	In - house method : T7.2-21	
(cont.)	in food processing	(Calculated as Fluorine)	based on Standard Methods for the	
		0.05 mg/L to 1.0 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-F <sup>-</sup> D	
		- Iron	Standard Methods for the Examination	
		0.01 mg/L to 0.5 mg/L	of Water and Wastewater, APHA,	
		- Lead	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
		0.01 mg/L to 0.5 mg/L	part 3120 B	

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### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : lacktriangle Permanent lacktriangle Site lacktriangle Temporary lacktriangle Mobile

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Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	ice	- Coliforms	Standard Methods for the Examination	
		MPN/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 9221 B	
		- E. coli	Standard Methods for the Examination	
		Detected or not detected/100 mL	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 9221 B, D, F, G	
		- Salmonella spp.	AFNOR Validation, Certificate	
		Detected or not detected/100 mL	No. TRA 02/12-01/09	

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# Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : ✓ Permanent ☐ Site ☐ Temporary ☐ Mobile

	Laboratory states . El remaillent El site El remporary El mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	ice	- Staphylococcus aureus	In – house method : T7.2-06	
(cont.)		Detected or not detected/100 mL	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 9213 B	
		- pH	Standard Methods for the Examination	
		6.5 to 8.5	of Water and Wastewater, APHA,	
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500 - H <sup>+</sup> B	
		- Turbidity	United States Environmental	
		0.5 NTU to 5.0 NTU	Protection Agency, 1993,	
			EPA Method 180.1	

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# Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	y Status : 🔼 Perma	anent $\square$ Site $\square$ Tempora	ary <b>L</b> Mobile
Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
2	ice	- Total solids	Standard Methods for the Examination
(cont.)		dried at 103 °C to 105 °C	of Water and Wastewater, APHA,
		25 mg/L to 1 000 mg/L	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 2540 B
		- Total hardness	Standard Methods for the Examination
		(Calculated as CaCO <sub>3</sub> )	of Water and Wastewater, APHA,
		10 mg/L to 500 mg/L	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 2340 C
		- Chloride	Standard Methods for the Examination
		7.55 mg/L to 300 mg/L	of Water and Wastewater, APHA,
			AWWA & WEF, 23 <sup>rd</sup> ed., 2017,
			part 4500-Cl B

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# Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

	- Laboratory States - La remainent - La Site - La remporary - La Mobile			
Item	Test Material /	Test Item /	Test Method /	
Number	Product	Range of Testing	Technique Used	
2	ice	- Chloride	In - house method : T7.2-24	
(cont.)		(Calculated as Chlorine)	based on Standard Methods for the	
		3.78 mg/L to 150 mg/L	Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-Cl <sup>-</sup> B	
		- Nitrate	Standard Methods for the Examination	
		(Calculated as nitrogen)	of Water and Wastewater, APHA,	
		0.2 mg/L to 4.0 mg/L	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-NO <sub>3</sub> D	
		- Fluoride	In - house method : T7.2-21	
		0.1 mg/L to 2.0 mg/L	based on Standard Methods for the	
			Examination of Water and Wastewater,	
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,	
			part 4500-F <sup>-</sup> D	

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### Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status : Mermanent Li Site Li Temporary Li Mobile				
Item	Test Material /	Test Item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
2	ice	- Fluoride	In - house method : T7.2-21		
(cont.)		(Calculated as Fluorine)	based on Standard Methods for the		
		0.05 mg/L to 1.0 mg/L	Examination of Water and Wastewater,		
			APHA, AWWA & WEF, 23 <sup>rd</sup> ed., 2017,		
			part 4500-F <sup>-</sup> D		
		- Iron	Standard Methods for the Examination		
		0.01 mg/L to 0.5 mg/L	of Water and Wastewater, APHA,		
		- Lead	AWWA & WEF, 23 <sup>rd</sup> ed., 2017,		
		0.01 mg/L to 0.5 mg/L	part 3120 B		
3	- bread	- Salmonella spp.	AFNOR Validation, Certificate		
	- meat products	Detected or not detected/25 g	No. TRA 02/12-01/09		
	- ready-to-eat food				
		- Staphylococcus aureus	Certificate of Compliance; NordVal		
		cfu/g	No.042, Compact dry X-SA: June 2019		

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# Scope of Testing Laboratory Accreditation

Laboratory Name : Central Food Group Laboratory

Address : 67 Ngamwongwan Road, Ladyao,

Chatuchak, Bangkok 10900

Accreditation Number : Testing - 0291

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test Item /	Test Method /
Number	Product	Range of Testing	Technique Used
3	- bread	- Bacillus cereus	Certificate of Compliance; MicroVal
(cont.)	- meat products	cfu/g	No.2019LR87 : Compact dry BC:
	- ready-to-eat food		March 2020
		- Clostridium perfringens	FDA Bacteriological Analytical Manual
		cfu/g	online, Chapter 16, January 2001
		- Vibrio cholerae	FDA Bacteriological Analytical Manual
		Detected or not detected/25 g	online, Chapter 9, May 2004
		- Vibrio parahaemolyticus	
		MPN/g	

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