

Name of Laboratory : 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 Thailand
Accreditation Number : Testing - 0286
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Initial Issue Date : 7th November 2022
Issue Date : 23rd July 2026
Expired date : 22nd July 2030
Standard : ISO/IEC 17025:2017
Reference No. : 0303/7830

Scope of Testing Laboratory Accreditation

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Bottled drinking water	- Total plate count CFU/mL - Coliforms MPN/100 mL - <i>Escherichia coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (Cont.)	Bottled drinking water	- <i>Escherichia coli</i> Detected or not detected/100 mL - <i>Staphylococcus aureus</i> CFU/100 mL - <i>Salmonella</i> spp. Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F In - house method : TM-08-MIC-017 based on Standard Methods for the Examination of Water and Wastewater, AWWA & WEF, 24th ed., 2023, part 9213 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9274

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (Cont.)	Bottled drinking water	- <i>Clostridium perfringens</i> Detected or not detected/100 mL	Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, The Microbiology of Drinking Water, 2021, part 6
2	Water - Process water - Tap water - Filtered water	- Total plate count CFU/mL - Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B

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2 (Cont.)	Water - Process water - Tap water - Filtered water	- <i>Escherichia coli</i> MPN/100 mL - <i>Escherichia coli</i> Detected or not detected/100 mL - <i>Staphylococcus aureus</i> CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F Standard Methods for the Examination of Water and Wastewater, APHA, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F In - house method : TM-08-MIC-017 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9213 B

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2 (Cont.)	Water - Process water - Tap water - Filtered water	- <i>Salmonella</i> spp. Detected or not detected/100 mL - <i>Clostridium perfringens</i> Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9274 Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, The Microbiology of Drinking Water, 2021, part 6
3	Surface water	- Total plate count CFU/mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B

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3 (Cont.)	Surface water	- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B
4	Ice	- Total plate count CFU/mL - Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9215 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
4 (Cont.)	Ice	- <i>Escherichia coli</i> MPN/100 mL - <i>Escherichia coli</i> Detected or not detected/100 mL - <i>Staphylococcus aureus</i> CFU/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, F In - house method : TM-08-MIC-017 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9213 B

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4 (Cont.)	Ice	- <i>Salmonella</i> spp. Detected or not detected/100 mL - <i>Clostridium perfringens</i> Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9274 Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials, The Microbiology of Drinking Water, 2021, part 6

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5	Vegetable and fruit	- Total plate count CFU/g, CFU/mL	AOAC Official Methods of Analysis 22 nd ed, 2023, method 990.12
	- Fresh		
	- Chilled		
	- Frozen	- <i>Staphylococcus aureus</i> CFU/g, CFU/mL	AOAC Official Methods of Analysis 22 nd ed, 2023, method 2003.07
	- Processed		
		- <i>Salmonella</i> spp. Detected or not detected/25 g Detected or not detected/25 mL	AFNOR Certificate No. 3M 01/16-11/16
		- <i>Listeria monocytogenes</i> Detected or not detected/25 g Detected or not detected/25 mL	AFNOR Certificate No. 3M 01/15-09/16

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6	Bakery Products	- Total plate count CFU/g - <i>Staphylococcus aureus</i> CFU/g - <i>Salmonella</i> spp. Detected or not detected/25 g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 990.12 AOAC Official Methods of Analysis 22 nd ed, 2023, method 2003.07 AFNOR Certificate No. 3M 01/16-11/16

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7	Ready to eat	- Total plate count CFU/g, CFU/mL - <i>Staphylococcus aureus</i> CFU/g, CFU/mL - <i>Vibrio cholerae</i> Detected or not detected/25 g Detected or not detected/25 mL - <i>Vibrio parahaemolyticus</i> Detected or not detected/25 g Detected or not detected/25 mL	AOAC Official Methods of Analysis 22 nd ed, 2023, method 990.12 AOAC Official Methods of Analysis 22 nd ed, 2023, method 2003.07 FDA Bacteriological Analytical Manual Online, 2004, Chapter 9 ISO 21872-1: 2017/Amd 1:2023

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8	Swab test - Surface swab	- Total plate count CFU/swab - <i>Salmonella</i> spp. Detected or not detected/swab - <i>Listeria</i> spp. Detected or not detected/swab	Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and FDA Bacteriological Analytical Manual Online, 2026, Chapter 3 Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and ISO 6579-1 : 2017/Amd.1 : 2020 Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and and ISO 11290-1 : 2017

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
8 (Cont.)	Swab test - Surface swab	- <i>Listeria monocytogenes</i> Detected or not detected/swab - <i>Staphylococcus aureus</i> CFU/swab	Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and and ISO 11290-1 : 2017 Compendium of Methods for the Microbiological Examination of Food (APHA), 5 th ed. 2015, Chapter 3 and FDA Bacteriological Analytical Manual Online, 2016, Chapter 12
9	Sauce	- Total plate count CFU/g, CFU/mL	AOAC Official Methods of Analysis, 22 nd ed, 2023, method 990.12

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10	Food	- <i>Salmonella</i> spp. Detected or not detected/25 g Detected or not detected/25 mL - <i>Staphylococcus aureus</i> CFU/g, CFU/mL - <i>Listeria</i> spp. Detected or not detected/25 g Detected or not detected/25 mL - <i>Listeria monocytogenes</i> Detected or not detected/25 g Detected or not detected/25 mL	ISO 6579-1 : 2017/Amd.1 : 2020 FDA Bacteriological Analytical Manual Online, 2016, Chapter 12 ISO 11290-1 : 2017

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food	- Total plate count CFU/g, CFU/mL - Coliforms CFU/g, CFU/mL - <i>Escherichia coli</i> CFU/g, CFU/mL - Coliforms MPN/g, MPN/mL - <i>Escherichia coli</i> MPN/g, MPN/mL	FDA Bacteriological Analytical Manual Online, 2026, Chapter 3 AOAC Official Methods of Analysis 22 nd ed, 2023, Method 991.14 FDA Bacteriological Analytical Manual Online, 2020, Chapter 4

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food	- <i>Bacillus cereus</i> CFU/g, CFU/mL - <i>Clostridium perfringens</i> CFU/g, CFU/mL - Yeast and mold CFU/g, CFU/mL - Enterobacteriaceae CFU/g, CFU/mL	FDA Bacteriological Analytical Manual Online, 2020, Chapter 14 FDA Bacteriological Analytical Manual Online, 2001, Chapter 16 AOAC Official Methods of Analysis, 22 nd ed, 2023, Method 2014.05 FDA Bacteriological Analytical Manual Online, 2001, Chapter 18 ISO 21528-2 : 2017

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10 (Cont.)	Food - Cereal and products - Meat and products - Seafood and products - Vegetable, Fruit and products - Beverage - Flour and products - Snack - Bakery products - Nuts and nut products - Coffee and tea - Eggs and egg products	- Ash 0.004 g/100 g to 35.80 g/100 g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 945.18, 920.153, 938.08, 940.26, 925.51, 923.03, 950.49, 945.39B, 920.93, 920.100, 972.15, 945.46, 930.30, 920.117, 935.42, 941.12(A), 900.02

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10 (Cont.)	Food - Frozen french-fried potatoes - Cacao and products - Milk and products - Dairy and dairy products - Seasoning and products - Supplement Food - Cereal and products - Meat and products - Aquatic animals and products - Vegetable, Fruit and products	- Ash 0.004 g/100 g to 35.80 g/100 g - Moisture 0.03 g/100 g to 90.4 g/100 g	AOAC Official Methods of Analysis 22 nd ed, 2023, method 945.18, 920.153, 938.08, 940.26, 925.51, 923.03, 950.49, 945.39B, 920.93, 920.100, 972.15, 945.46, 930.30, 920.117, 935.42, 941.12(A), 900.02 AOAC Official Methods of Analysis, 22 nd ed, 2023, method 925.10, 950.46B(b), 952.08A,B, 920.151, 964.22, 930.04, 934.06, 925.40, 925.19, 925.30, 984.25, 931.04, 927.05, 925.23, 926.08, 920.116, 941.08, 925.45B, 925.55B, 968.11

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10 (Cont.)	Food - Beverage - Flour and products - Snack - Bakery products - Nuts and nut products - Coffee and tea - Eggs and egg products - Frozen french-fried potato - Cacao and products - Milk and products - Dairy and dairy products - Seasoning and products - Edible ices - Supplement	- Moisture 0.03 g/100 g to 90.4 g/100 g	AOAC Official Methods of Analysis, 22 nd ed, 2023, method 925.10, 950.46B(b), 952.08A,B, 920.151, 964.22, 930.04, 934.06, 925.40, 925.19, 925.30, 984.25, 931.04, 927.05, 925.23, 926.08, 920.116, 941.08, 925.45B, 925.55B, 968.11

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10 (Cont.)	Food - Cereal and products - Aquatic animals and products - Flour and products - Milk and products - Dairy and dairy products - Butter and products - Fats and oils, and fat emulsions - Eggs and egg products - Cacao and product - Ice cream - Bakery products - Cheese and products - Sauce and products - Supplement	- Fat 0.2 g/100 g to 80.3 g/100 g - Calories from fat (By calculation)	AOAC Official Methods of Analysis, 22 nd ed, 2023, method 922.06, 948.15, 950.54, 925.32, 952.06, 933.05, 938.06, 989.05, 963.15 Method of analysis for Nutrition Labeling, 1993, AOAC, Chapter 6

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Milk and products - Dairy and dairy products - Fats and oils, and fat emulsions - Edible ices - Fruits, vegetables seaweeds, nuts and seeds - Confectionery - Cereal and products - Bakery products - Meat and meat products - Aquatic animals and products - Eggs and egg products - Sweeteners, including honey	- Total nitrogen 0.59 g/100 g to 13.6 g/100 g - Protein 3.7 g/100 g to 85.1 g/100 g	In - house method : TM-08-CHE-008 based on Official Methods of Analysis 22 nd ed. 2023, method 981.10, 920.152, 920.87, 950.36, 950.48, 920.103, 991.22, 979.09, 930.33, 940.25, 925.31, 920.173

Initial Issue Date 7th November 2022

Issue Number 5

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

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 Thailand

Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Sauces - Foodstuffs intended for nutritional uses - Beverage - Flour and products - Ready-to-eat savories - Prepared foods - Substances added to food which are not fall in category 1-16 and not for direct consumption - Seasoning - Supplement	- Total nitrogen 0.59 g/100 g to 13.6 g/100 g - Protein 3.7 g/100 g to 85.1 g/100 g	In - house method : TM-08-CHE-008 based on Official Methods of Analysis 22 nd ed. 2023, method 981.10, 920.152, 920.87, 950.36, 950.48, 920.103, 991.22, 979.09, 930.33, 940.25, 925.31, 920.173

Initial Issue Date 7th November 2022

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Dairy and dairy products - Fats and oils, and fat emulsions - Fruits, vegetables seaweeds, nuts and seeds - Confectionery - Cereal and products - Bakery products - Meat and meat products - Seafood and products - Eggs and egg products - Sweeteners, including honey - Sauces	- Dietary fibre 0.2 g/100 g to 73.3 g/100 g	In - house method : TM-08-CHE-009 based on Official Methods of Analysis 22 nd ed. 2023, method 985.29

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Vegetable, fruit and products - Beverage - Bakery products - Coffee - Ice cream - Snacks - Meat and meat product - Aquatic animals and products - Sauce and sauce product - Supplement	- Cholesterol 5.00 mg/100 g to 500.00 mg/100 g 5.00 mg/100 mL to 500.00 mg/100 mL	In - house method : TM-08-CHE-015 based on Official Methods of Analysis, 22 nd ed. 2023, method 994.10

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Cereal and products - Aquatic animals and products - Flour and products - Milk and products - Dairy and dairy products - Bakery and bakery bakery products - Supplement - Beverage - Sauce	- Carbohydrate (By calculation) - Total calories (By calculation)	Method of Analysis for Nutrition Labeling, AOAC, 1993, Chapter 6

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Milk and products - Dairy and dairy products - Flour and products - Eggs and egg products - Cereal and products - Beverage - Aquatic animals and products - Cacao and products - Butter and products - Sauce and sauce product - Supplement	Fatty acids - Saturated fatty acid - mono-unsaturated fatty acid - Poly-unsaturated fatty acid - <i>Trans</i> fatty acid (C4:0, C6:0, C8:0, C10:0, C11:0, C12:0, C13:0, C14:0, C14:1, C15:0, C15:1, C16:0, C16:1, C17:0, C17:1, C18:0, C18:1, C18:2, C18:3, C20:0, C20:1, C20:2, C20:3, C20:4, C20:5, C21:0, C22:0, C22:1, C22:2, C22:6, C23:0, C24:0, C24:1, C14:1T, C15:1T, C16:1T, C17:1T, C18:1T, C19:1T, C20:1T, C22:1T) 0.07 g/100 g to 17.00 g/100 g	In - house method: TM-08-CHE-016 based on Official Methods of Analysis, 22 nd ed. 2023, method 991.39, 996.06

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Milk and products - Dairy and dairy products - Flour and products - Eggs and egg products - Cereal and products - Beverage - Aquatic animals and products - Cacao and products - Butter and products - Sauce and sauce product - Supplement	Fatty acids - Omega 3 - Omega 6 - Omega 9 (C4:0, C6:0, C8:0, C10:0, C11:0, C12:0, C13:0, C14:0, C14:1, C15:0, C15:1, C16:0, C16:1, C17:0, C17:1, C18:0, C18:1, C18:2, C18:3, C20:0, C20:1, C20:2, C20:3, C20:4, C20:5, C21:0, C22:0, C22:1, C22:2, C22:6, C23:0, C24:0, C24:1, C14:1T, C15:1T, C16:1T, C17:1T, C18:1T, C19:1T, C20:1T, C22:1T) 0.07 g/100 g to 17.00 g/100 g	In - house method: TM-08-CHE-016 based on Official Methods of Analysis, 22 nd ed. 2023, method 991.39, 996.06

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Bakery and bakery products - Supplements	- Calcium 100 mg/kg to 20 000 mg/kg - Iron 20.0 mg/kg to 20 000 mg/kg - Potassium 100 mg/kg to 20 000 mg/kg - Sodium 100 mg/kg to 20 000 mg/kg - Salt (Calculated as NaCl) 254 mg/kg to 50 800 mg/kg	In - house method : TM-08-CHE-010 based on Official Method of Analysis, 22 nd ed. 2023, method 999.10, 984.27

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (Cont.)	Food - Bakery and bakery products - Supplement	- Arsenic 0.050 mg/kg to 2.50 mg/kg - Mercury 0.150 mg/kg to 5.00 mg/kg - Cadmium 0.030 mg/kg to 5.00 mg/kg	In - house method : TM-08-CHE-026 based on Official Method of Analysis, 22 nd ed. 2023, method 999.10, 984.27
	Food - Bakery and bakery products - Supplement - Beverage	- Total sugar (Fructose, Glucose, Sucrose, Maltose, Lactose) 1.00 g/100 mL to 40.00 g/100 mL 1.00 g/100 g to 40.00 g/100 g	In - house method: TM-08-CHE-014 based on AOAC SMPR® 2018.001, 2018

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11	Beverage	- Vitamin A 100 µg/100 mL to 2 000 µg/100 mL 1.00 mg/L to 20.00 mg/L 0.10 mg/100 g to 2.00 mg/100 g - Vitamin B1 0.04 mg/100 mL to 2.00 mg/100 mL 0.04 mg/100 g to 2.00 mg/100 g - Vitamin B2 0.04 mg/100 mL to 2.00 mg/100 mL 0.04 mg/100 g to 2.00 mg/100 g	In - house method : TM-08-CHE-006 based on AOAC Official Methods of Analysis, 22 nd ed. 2023, method 2001.13 In - house method : TM-08-CHE-012 based on AOAC Official Methods of Analysis, 22 nd ed. 2023, method 986.27 In - house method : TM-08-CHE-002 based on AOAC Official Methods of Analysis, 22 nd ed. 2023, method 970.65

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11 (Cont.)	Beverage	- Vitamin C 1.00 mg/100 mL to 20.00 mg/100 mL 1.00 mg/100 g to 20.00 mg/100 g - Salt (Calculated as NaCl) 63.5 mg/L to 5 006 mg/L 63.5 mg/kg to 5 006 mg/kg - Calcium 26.5 mg/L to 1 986 mg/L 26.5 mg/kg to 1 986 mg/kg	In - house method : TM-08-CHE-011 based on Journal of Chromatography A, 2016, Vol.1369 (2014), P.2-17 In - house method : TM-08-CHE-010 based on AOAC Official Methods of Analysis, 22 nd ed. 2023, method 999.10, 984.27

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11 (Cont.)	Beverage	- Copper 1.25 mg/L to 1 950 mg/L 1.25 mg/kg to 1 950 mg/kg - Iron 1.25 mg/L to 1 990 mg/L 1.25 mg/kg to 1 990 mg/kg - Potassium 12.4 mg/L to 1 933 mg/L 12.4 mg/kg to 1 933 mg/kg - Magnesium 12.0 mg/L to 1 992 mg/L 12.0 mg/kg to 1 992 mg/kg	In - house method : TM-08-CHE-010 based on AOAC Official Methods of Analysis, 22 nd ed. 2023, method 999.10, 984.27

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11 (Cont.)	Beverage	- Zinc 2.51 mg/L to 1 977 mg/L 2.51 mg/kg to 1 977 mg/kg - Manganese 1.32 mg/L to 1 991 mg/L 1.32 mg/kg to 1 991 mg/kg - Sodium 25.0 mg/L to 1 971 mg/L 25.0 mg/kg to 1 971 mg/kg	In - house method : TM-08-CHE-010 based on AOAC Official Methods of Analysis, 22 nd ed. 2023, method 999.10, 984.27

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11 (Cont.)	Beverage	- Benzoic acid (Calculated as sodium benzoate) 5.00 mg/L to 200.00 mg/L 5.00 mg/kg to 200.00 mg/kg - Sorbic acid (Calculated as potassium sorbate) 5.00 mg/L to 200.00 mg/L 5.00 mg/kg to 200.00 mg/kg - Saccharin 5.00 mg/L to 200.00 mg/L 5.00 mg/kg to 200.00 mg/kg	In - house method : TM-08-CHE-013 based on US ISO 22855 : 2008

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11 (Cont.)	Beverage	- Caffeine 5.00 mg/L to 200.00 mg/L 5.00 mg/kg to 200.00 mg/kg - Acesulfame-K 5.00 mg/L to 200.00 mg/L 5.00 mg/kg to 200.00 mg/kg	In - house method : TM-08-CHE-013 based on US ISO 22855 : 2008

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12	Bottled drinking water	- Turbidity 0.4 NTU to 800 NTU 0.4 Silica Scale to 800 Silica Scale - pH 6.5 to 9.5 - Total solids dried from 103 °C to 105 °C 10 mg/L to 1 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B

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Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (Cont.)	Bottled drinking water	- Total dissolved solids dried at 180 °C 10 mg/L to 6 000 mg/L - Total hardness (Calculated as CaCO ₃) 10 mg/L to 500 mg/L - Color 5 Pt-Co to 50 Pt-Co 5 Hazen unit to 50 Hazen unit	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2120 C

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Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (Cont.)	Bottled drinking water	- Sulfate 10 mg/L to 250 mg/L - Fluoride 0.2 mg/L to 1.5 mg/L - Nitrate (Calculated as nitrogen) 0.20 mg/L to 7.0 mg/L	In - house method: TM-08-CEN-015 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-SO ₄ ²⁻ E In - house method: TM-08-CEN-011 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-F ⁻ D Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-NO ₃ ⁻ B

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Accreditation Standard : ISO/IEC 17025 : 2017

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (Cont.)	Bottled drinking water	- Cyanide 0.004 mg/L to 0.10 mg/L - Phenols 0.001 mg/L to 0.005 mg/L - MBAS (Calculated as ABS, MW=348.8) 0.01 mg/L to 0.20 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-CN ⁻ C, E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 B, C In - house method : TM-08-CEN-013 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5540 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (Cont.)	Bottled drinking water	- Chloride 10 mg/L to 500 mg/L - Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.010 mg/L to 0.500 mg/L - 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl ⁻ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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Accreditation Number : Testing - 0286

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Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (Cont.)	Bottled drinking water	- 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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

Accreditation Number : Testing - 0286

Accreditation Standard : ISO/IEC 17025 : 2017

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13	Ice	- Turbidity 0.4 NTU to 800 NTU 0.4 Silica Scale to 800 Silica - pH 6.5 to 8.5 - Total solids dried from 103 °C to 105 °C 10 mg/L to 1 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (Cont.)	Ice	- Total dissolved solids dried at 180 °C 10 mg/L to 6 000 mg/L - Total hardness (Calculated as CaCO ₃) 10 mg/L to 500 mg/L - Color 5 Pt-Co to 50 Pt-Co 5 Hazen unit to 50 Hazen unit	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2120 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (Cont.)	Ice	- Sulfate 10 mg/L to 250 mg/L - Fluoride 0.2 mg/L to 1.5 mg/L - Nitrate (Calculated as nitrogen) 0.20 mg/L to 7.0 mg/L	In - house method: TM-08-CEN-015 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-SO ₄ ²⁻ E In - house method: TM-08-CEN-011 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-F ⁻ D Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-NO ₃ ⁻ B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (Cont.)	Ice	- Cyanide 0.004 mg/L to 0.10 mg/L - Phenols 0.001 mg/L to 0.005 mg/L - MBAS (Calculated as ABS, MW=348.8) 0.01 mg/L to 0.20 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-CN ⁻ C, E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 B, C In - house method : TM-08-CEN-013 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5540 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (Cont.)	Ice	- Chloride 10 mg/L to 500 mg/L - Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.010 mg/L to 0.500 mg/L - 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl ⁻ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13 (Cont.)	Ice	- 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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14	Water	- Turbidity 0.4 NTU to 800 NTU 0.4 Silica Scale NTU to 800 Silica Scale - pH 6.5 to 7.8 - Total solids dried from 103 °C to 105 °C 10 mg/L to 1 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (Cont.)	Water	- Total dissolved solids dried at 180 °C 10 mg/L to 6 000 mg/L - Total hardness (Calculated as CaCO ₃) 10 mg/L to 500 mg/L - Color 5 Pt-Co to 50 Pt-Co 5 Hazen unit to 50 Hazen unit	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2120 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (Cont.)	Water	- Sulfate 10 mg/L to 250 mg/L - Fluoride 0.2 mg/L to 1.5 mg/L - Nitrate (Calculated as nitrogen) 0.20 mg/L to 7.0 mg/L	In - house method: TM-08-CEN-015 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-SO ₄ ²⁻ E In - house method: TM-08-CEN-011 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-F ⁻ D Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-NO ₃ ⁻ B

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14 (Cont.)	Water	- Cyanide 0.004 mg/L to 0.10 mg/L - Phenols 0.001 mg/L to 0.005 mg/L - MBAS (Calculated as ABS, MW=348.8) 0.01 mg/L to 0.20 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-CN ⁻ C, E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 B, C In - house method : TM-08-CEN-013 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5540 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (Cont.)	Water	- Chloride 10 mg/L to 500 mg/L - Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.010 mg/L to 0.500 mg/L - 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl ⁻ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
14 (Cont.)	Water	- 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
15	Wastewater	- Turbidity 2.7 NTU to 800 NTU 2.7 Silica Scale to 800 Silica Scale - pH 4.2 to 9.8 - Total solids dried from 103 °C to 105 °C 10 mg/L to 1 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2130 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
15 (Cont.)	Wastewater	- Total dissolved solids dried at 180 °C 10 mg/L to 6 000 mg/L - Chloride 10 mg/L to 500 mg/L - Silver 0.005 mg/L to 0.500 mg/L - Aluminum 0.010 mg/L to 0.500 mg/L - Barium 0.005 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl ⁻ B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
15 (Cont.)	Wastewater	- 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 0.005 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	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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15 (Cont.)	Wastewater	- Zinc 0.010 mg/L to 0.500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B, 3030 K

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