



Ref No. : 0303/10320

CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

Intertek Testing Services (Thailand) Ltd. – Food Services
888 MEC Building, 9th – 10th Floor, Debaratna Road,
Bangna Tai, Bangna, Bangkok 10260 Thailand

has successfully undergone assessment according to ISO/IEC 17025 : 2017
and under the Bureau of Laboratory Accreditation, Department of Science Service
and the requirements, regulations and criteria for the competence of testing laboratories

Accreditation Number TESTING - 0111

The scope of accreditation is as annexed hereto

Issue date : **30th September 2025**

Expired date : **25th June 2029**

Signature : *Chantararat Vorasapavit*
(Mrs. Chantararat Vorasapavit)

Director of Bureau of Laboratory Accreditation

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

Scope of Laboratory Accreditation

Laboratory Name : Intertek Testing Services (Thailand) Ltd. – Food Services

Address : 888 MEC Building, 9th – 10th Floor, Debaratna Road,
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Accreditation Number : Testing - 0111

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	Feeding stuffs	- Protein 2.70 g/100 g to 91.50 g/100 g - Crude protein 0.10 g/100 g to 91.50 g/100 g - Ash 1.70 g/100 g to 16.80 g/100 g - Moisture 6.60 g/100 g to 73.50 g/100 g - Fat 1.00 g/100 g to 76.00 g/100 g	Grain and Feed Trade Association, GAFTA, March 01, 2014, method 4:1 In - house method : TM-PM-079 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 984.13 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 942.05 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 930.15 In - house method : TM-PM-078 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 954.02

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1 (cont.)	Feeding stuffs	- Crude fat (Ether extracted) 0.30 g/100 g to 21.10 g/100 g - Fatty acid (Saturated fatty acid, Mono-unsaturated fatty acid, Poly-unsaturated fatty acid, Trans Fatty acid, Omega 3, Omega 6, Omega 9) 0.01 g/100 g to 5.80 g/100 g - Crude fiber 0.40 g/100 g to 60.20 g/100 g	In - house method : TM-PM-155 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 920.39 In - house method : TM-GC-120 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 996.06 In - house method : TM-PM-076 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 978.10

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1 (cont.)	Feeding stuffs	- Salt (Calculated as NaCl) 0.40 g/100 g to 30.00 g/100 g - Salt (Calculated as Cl ⁻) 0.24 g/100 g to 18.00 g/100 g - Carbohydrate (By calculation) - Total calories (By calculation) - Calories from fat (By calculation)	In - house method : TM-PM-077 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 937.09 Method of Analysis, for Nutrition Labeling, AOAC, 1993, chapter 6

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1 (cont.)	Feeding stuffs	- Peroxide value 0.19 meq/kg to 20.79 meq/kg - TVB-N 36.2 mg/100 g to 384.32 mg/100 g - Arsenic 0.05 mg/kg to 2.50 mg/kg - Mercury 0.025 mg/kg to 0.50 mg/kg - Lead 0.05 mg/kg to 2.50 mg/kg - Cadmium 0.05 mg/kg to 2.50 mg/kg - Calcium 1.00 mg/100 g to 125.00 mg/100 g	In - house method : TM-PM-194 based on AOCS Official Method Cd 8-53 Surplus 2003 In- house method : TM-PM-230 based on Commission regulation (EC) No. 2074/2005 In - house method : TM-HM-084 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 968.08

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1 (cont.)	Feeding stuffs	- Phosphorus 0.05 g/100 g to 1.50 g/100 g - Sodium 5.00 mg/kg to 10 000.00 mg/kg - Calcium 10.00 mg/kg to 10 000.00 mg/kg - Potassium 5.00 mg/kg to 10 000.00 mg/kg - Magnesium 2.50 mg/kg to 2 500.00 mg/kg - Iron 5.00 mg/kg to 500.00 mg/kg - Manganese 5.00 mg/kg to 500.00 mg/kg	In - house method: TM-PM-153 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 965.17 In - house method : TM-HM-220 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 985.01

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Feeding stuffs	- Copper 5.00 mg/kg to 500.00 mg/kg - Zinc 5.00 mg/kg to 500.00 mg/kg - Tin 5.00 mg/kg to 500.00 mg/kg - Water activity 0.150 to 1.000 - Total plate count CFU/g, CFU/mL - Yeasts and molds CFU/g, CFU/mL	In - house method : TM-HM-220 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 985.01 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 978.18 ISO 4833 : 2013 AFNOR Certificate No. 3M 01/13 – 07/14

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1 (cont.)	Feeding stuffs	- Coliform CFU/g, CFU/mL - <i>Escherichia coli</i> CFU/g, CFU/mL - <i>Salmonella</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 - <i>Listeria</i> spp. Detected or not detected/25 g Detected or not detected/25 mL	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2018.13 AFNOR Validation, Certificate reference No. UNI 03/07-11/13 In - house method : TM-MIC-182 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2021.05 In - house method : TM-MIC-182 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2021.06

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Feeding stuffs	- Acid value 2.27 mgKOH/g to 103.44 mgKOH/g	In - house method : TM-PM-243 based on AOCS Official method CD 3d-63

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2	Foods - Meat and meat products (Fresh, Frozen, Processed) - Vegetables, fruits and products (Fresh, Frozen, Processed) - Plant cereal and plant cereal products - Nut and nut products - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products - Sauce - Tea, coffee and cocoa - Dairy products - Seasoning - Beverage - Supplement food	- Moisture 0.01 g/100 g to 94.50 g/100 g - Ash 0.03 g/100 g to 36.80 g/100 g	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 920.116, 920.151, 925.10, 925.19, 925.30, 925.40, 925.45, 925.55B, 926.08, 927.05, 930.04, 931.04, 934.06, 941.08, 950.46, 950.46B, 952.08, 964.22, 968.11, 984.25 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 900.02, 920.93, 920.100, 920.117, 920.153, 923.03, 925.51, 930.30, 935.42, 938.08, 940.26, 941.12A, 945.39 B, 945.18, 945.46, 950.49, 972.15

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2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, Processed) - Vegetables, fruits and products (Fresh, Frozen, Processed) - Plant cereal and plant Cereal products - Nut and nut products - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products - Sauce - Tea, coffee and cocoa - Dairy products - Supplement food	- Protein 0.08 g/100 g to 52.70 g/100 g - Carbohydrate (By calculation) - Total calories (By calculation) - Calories from fat (By calculation)	In - house method : TM-PM-079 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 920.87, 920.103, 920.152, 935.39, 950.36, 950.48, 981.10, 991.20, 992.15, 992.23 Method of Analysis, for Nutrition Labeling, AOAC, 1993, chapter 6

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2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, Processed) - Vegetables, fruits and products (Fresh, Frozen, Processed) - Plant cereal and plant Cereal products - Nut and nut products - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products - Sauce - Tea, coffee and cocoa - Supplement food	- Fat 0.10 g/100 g to 89.30 g/100 g	In - house method : TM-PM-078 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 922.06, 925.32, 948.15, 950.54

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2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, Processed) - Vegetables, fruits and products (Fresh, Frozen, Processed) - Plant cereal and plant Cereal products - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products - Sauce - Tea, coffee and cocoa	- Water activity 0.150 to 1.000	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 978.18

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2 (cont.)	Foods - Seasoning and spices Foods - Meat and meat products (Fresh, Frozen, Processed) - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products - Vegetables, fruits and products (Fresh, Frozen, Processed) - Nut and nut products - Sauce - Seasoning and spices - Dairy products - Egg	- Crude fiber 0.40 g/100 g to 60.20 g/100 g - Salt (Calculated as NaCl) 0.40 g/100 g to 30.00 g/100 g - Salt (Calculated as Cl ⁻) 0.24 g/100 g to 18.00 g/100 g	In - house method : TM-PM-076 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 978.10 In - house method : TM-PM-077 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 937.09

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2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, Processed) - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products - Vegetables, fruits and products (Fresh, Frozen, Processed) - Nut and nut products - Sauce - Seasoning and spices - Dairy products - Egg - Beverage	- pH 1.60 to 7.00	In - house method : TM-PM-137 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 943.02

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Peanut and peanut products - Cereal and cereal products - Snack, Cookies, Biscuit, Cracker - Seasoning	- BHT 3.00 mg/kg to 30.00 mg/kg - BHA 3.00 mg/kg to 30.00 mg/kg - TBHQ 3.00 mg/kg to 30.00 mg/kg	In - house method : TM-LC-061 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 983.15

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2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, Processed) - Ready-to-cook food and ready-to-eat food - Seasoning, fish sauce, sauce - Spices - Vegetables, fruits and products - Rice - Cereal and cereal products and low moisture products	- Arsenic 0.03 mg/kg to 2.50 mg/kg - Mercury 0.02 mg/kg to 0.50 mg/kg - Lead 0.03 mg/kg to 2.50 mg/kg - Cadmium 0.03 mg/kg to 2.50 mg/kg - Copper 0.50 mg/kg to 50.00 mg/kg - Selenium 0.50 mg/kg to 50.00 mg/kg - Chromium 0.50 mg/kg to 50.00 mg/kg	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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2 (cont.)	Foods - Beverage which is containing or made from Fruits and may also contain dissolved carbon dioxide or oxygen gas	- Arsenic 0.03 mg/kg to 2.50 mg/kg 0.03 mg/dm ³ to 2.50 mg/dm ³ - Mercury 0.02 mg/kg to 0.50 mg/kg 0.02 mg/dm ³ to 0.50 mg/dm ³ - Lead 0.03 mg/kg to 2.50 mg/kg 0.03 mg/dm ³ to 2.50 mg/dm ³ - Cadmium 0.03 mg/kg to 2.50 mg/kg 0.03 mg/dm ³ to 2.50 mg/dm ³ - Copper 0.50 mg/kg to 50.00 mg/kg 0.50 mg/dm ³ to 50.00 mg/dm ³	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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2 (cont.)	Foods - Beverage which is containing or made from Fruits and may also contain dissolved carbon dioxide or oxygen gas	- Selenium 0.50 mg/kg to 50.00 mg/kg 0.50 mg/dm ³ to 50.00 mg/dm ³ - Chromium 0.50 mg/kg to 50.00 mg/kg 0.50 mg/dm ³ to 50.00 mg/dm ³	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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2 (cont.)	Foods - Seafoods and seafoods products - Meat and meat products (Fresh, Frozen, Processed) - Milk and milk products - Egg and egg products - Ready-to-cook food and ready-to-eat food - Rice - Cereal and cereal products - Nut and nut products - Dried food - Flour and flour products - Snack and dessert	- Cholesterol 5 mg/100 g to 500 mg/100 g	In - house method : TM-GC-118 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 994.10

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Seasoning, fish sauce, sauce - Vegetables, fruits and products - Supplement food	- Cholesterol 5 mg/100 g to 500 mg/100 g	In - house method : TM-GC-118 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 994.10
	Foods - Beverage (Juice, Tea coffee and products)	- Cholesterol 5 mg/100 g to 500 mg/100 g 5 mg/100 mL to 500 mg/100 mL	In - house method : TM-GC-118 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 994.10

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2 (cont.)	Foods - Seafoods and seafoods products - Meat and meat products (Fresh, Frozen, Processed) - Dairy products - Egg and egg products - Ready-to-cook food and ready-to-eat food - Rice - Cereal and cereal products - Nut and nut products - Dried food - Flour and flour products	- Fatty acid (Saturated fatty acid, Mono-unsaturated fatty acid, Poly-unsaturated fatty acid, Trans Fatty acid, Omega 3, Omega 6, Omega 9) 0.10 g/100 g to 17.27 g/100 g	In - house method : TM-GC-120 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 996.06

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2 (cont.)	Foods - Snack and dessert - Seasoning, fish sauce, sauce - Vegetables, fruits and products - Tea coffee and products - Beverage - Supplement food	- Fatty acid (Saturated fatty acid, Mono-unsaturated fatty acid, Poly-unsaturated fatty acid, Trans Fatty acid, Omega 3, Omega 6, Omega 9) 0.10 g/100 g to 17.27 g/100 g	In - house method : TM-GC-120 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 996.06

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2 (cont.)	Foods - Ready-to-cook food and ready-to-eat food - Rice - Cereal and cereal products - Nut and nut products - Dried food - Flour and flour products - Snack and dessert - Meat and meat products (Fresh, Frozen, Processed)	- Vitamin A (Retinol) 1.00 mg/kg to 20.00 mg/kg 1.00 mg/dm ³ to 20.00 mg/dm ³ 3 335.00 IU/kg to 66 660.00 IU/kg 3 335.00 IU/dm ³ to 66 660.00 IU/dm ³ 100.00 µg/100 mL to 2 000.00 µg/100 mL 100.00 µg/100 g to 2 000.00 µg/100 g	In - house method : TM-LC-096 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2001.13

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Scope of Laboratory Accreditation

Laboratory Name : Intertek Testing Services (Thailand) Ltd. – Food Services

Address : 888 MEC Building, 9th – 10th Floor, Debaratna Road,
Bangna Tai, Bangna, Bangkok 10260 Thailand

Accreditation Number : Testing - 0111

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
2 (cont.)	Foods - Vegetables, fruits and products - Beverage - Oil and fat	- Vitamin A 1.00 mg/kg to 20.00 mg/kg 1.00 mg/dm ³ to 20.00 mg/dm ³ 3 335.00 IU/kg to 66 660.00 IU/kg 3 335.00 IU/dm ³ to 66 660.00 IU/dm ³ 100.00 µg/100 mL to 2 000.00 µg/100 mL 100.00 µg/100 g to 2 000.00 µg/100 g	In - house method : TM-LC-096 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2001.13
	Foods - Cereal and cereal products - Vegetables, fruits and processed products - Meat and meat products (Fresh, Frozen, Processed) - Beverage	- Vitamin B1 (Thiamine) 0.04 mg/100 g to 2.00 mg/100 g 0.04 mg/100 mL to 2.00 mg/100 mL	In - house method :TM-LC-130 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 986.27

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Cereal and cereal products - Vegetables, fruits and processed products - Meat and meat products (Fresh, Frozen, Processed) - Beverage	- Vitamin B2 (Riboflavin) 0.04 mg/100 g to 2.00 mg/100 g 0.04 mg/100 mL to 2.00 mg/100 mL	In - house method : TM-LC-131 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 970.65
	Foods - Vegetables, fruits and processed products - Beverage - Meat and meat products (Fresh, Frozen, Processed)	- Vitamin C (as ascorbic acid) 1.00 mg/100 g to 20.00 mg/100 g 1.00 mg/100 mL to 20.00 mg/100 mL	In - house method : TM-LC-095 based on Journal of Chromatography A, Vol.1369 (2014), P. 2-17

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Rice - Cereal and cereal products - Nut and nut products - Dried food - Flour and flour products - Seasoning, fish sauce, sauce - Spices - Snack - Beverage	- Aflatoxins B ₁ 2.00 µg/kg to 10.00 µg/kg B ₂ 2.00 µg/kg to 10.00 µg/kg G ₁ 2.00 µg/kg to 10.00 µg/kg G ₂ 2.00 µg/kg to 10.00 µg/kg - Total aflatoxin 2.00 µg/kg to 40.00 µg/kg	In - house method : TM-LC-091 based on Journal Toxins, 2016, Vol. 8, P. 1-18
	Foods - Nut and nut products	- Total aflatoxin 4.00 µg/kg to 40.00 µg/kg	In - house method : TM-LC-064 based on ScreenEZ® Aflatoxin ELISA Test Kit

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Flour and flour products - Seasoning, fish sauce, sauce - Spices - Aquatic animals and products	- Benzoic acid 5.00 mg/kg to 200.00 mg/kg - Benzoic acid (Calculated as sodium benzoate) 5.90 mg/kg to 236.00 mg/kg - Sorbic acid 5.00 mg/kg to 200.00 mg/kg - Sorbic acid (Calculated as potassium sorbate) 6.70 mg/kg to 268.00 mg/kg	In - house method: TM-LC-062 based on US ISO 22855 : 2008

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, fruits and products - Tea coffee and products - Beverage	- Benzoic acid 5.00 mg/kg to 200.00 mg/kg 5.00 mg/dm ³ to 200.00 mg/dm ³ - Benzoic acid (Calculated as sodium benzoate) 5.90 mg/kg to 236.00 mg/kg 5.90 mg/dm ³ to 236.00 mg/dm ³ - Sorbic acid 5.00 mg/kg to 200.00 mg/kg 5.00 mg/dm ³ to 200.00 mg/dm ³ - Sorbic acid (Calculated as potassium sorbate) 6.70 mg/kg to 268.00 mg/kg 6.70 mg/dm ³ to 268.00 mg/dm ³	In - house method : TM-LC-062 based on US ISO 22855 : 2008

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Meat and Meat products (Fresh, Frozen, Processed) - Vegetables, fruits and products - Sugar and products - Dessert, jams and jellies - Beverage - Seasoning - Seafoods and seafoods products (Fresh, Frozen, Processed) - Flour and flour products	- Sulfur dioxide (SO ₂) 10 mg/kg to 1 500 mg/kg - Sulphite content (Expressed as sulphur dioxide) 10 mg/kg to 1 500 mg/kg	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 990.28

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Ready-to-cook food and ready-to-eat food - Meat and meat products (Fresh, Frozen, Processed) - Seafoods and seafoods products - Flour and flour products - Vegetables, fruits and products (Fresh, Frozen, Processed) - Cereal and cereal products - Beverage - Supplement food	- Total dietary fiber 0.02 g/100 g to 30.50 g/100 g	In - house method : TM-PM-129 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 985.29

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	- Sodium 0.50 mg/100 g to 10.00 mg/100 g - Calcium 1.00 mg/100 g to 125.00 mg/100 g - Iron 0.05 mg/100 g to 2.50 mg/100 g - Zinc 0.05 mg/100 g to 2.50 mg/100 g - Potassium 0.50 mg/100 g to 10.00 mg/100 g - Manganese 0.05 mg/100 g to 2.50 mg/100 g - Magnesium 0.25 mg/100 g to 5.00 mg/100 g - Tin 0.05 mg/100 g to 2.50 mg/100 g	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	- Sodium 5.00 mg/kg to 10 000.00 mg/kg - Calcium 10.00 mg/kg to 10 000.00 mg/kg - Potassium 5.00 mg/kg to 10 000.00 mg/kg - Magnesium 2.50 mg/kg to 2 500.00 mg/kg - Iron 5.00 mg/kg to 500.00 mg/kg - Manganese 5.00 mg/kg to 500.00 mg/kg - Copper 5.00 mg/kg to 500.00 mg/kg - Zinc 5.00 mg/kg to 500.00 mg/kg	In - house method : TM-HM-219 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 984.27

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	- Tin 5.00 mg/kg to 500.00 mg/kg - Aluminium 5.00 mg/kg to 500.00 mg/kg - Nickle 5.00 mg/kg to 500.00 mg/kg - Chromium 5.00 mg/kg to 500.00 mg/kg	In - house method : TM-HM-219 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 984.27

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Cereal and cereal product - Spices - Seasoning - Dairy products - Vegetables, Fruits and Products Foods - Rice - Aquatic animals and product	- Ethylene oxide (EO) - 2-Chloroethanol (2CE) - Ethylene oxide (Sum of ethylene oxide and 2-Chloro-ethanol expressed as Ethylene oxide) 0.01 mg/kg to 0.20 mg/kg - Inorganic arsenic 0.010 mg/kg to 1.0 mg/kg	In - house method : TM-GC-241 based on EURL – SRM Reference Laboratories for Residues of pesticides Version 1.1 December 2020 In - house method : TM-HM-218 based on Journal of AOAC Int. Vol102, No.2, 2019

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	<p>- Acid value 0.19 mgKOH/g to 16.89 mgKOH/g</p> <p>- Peroxide value 0.05 meq/kg to 100.12 meq/kg</p> <p>- <i>Bacillus cereus</i> CFU/g, CFU/mL</p> <p>- <i>Salmonella</i> spp. Detected or not detected/25 g Detected or not detected/ 25 mL</p> <p>- Aerobic plate count CFU/g, CFU/mL</p>	<p>In - house method : TM-PM-243 based on AOCS Official Method CD 3d-63</p> <p>In - house method : TM-PM-194 based on AOCS Official Method Cd 8-53 Surplus 2003</p> <p>FDA Bacteriological Analytical Manual online, Chapter 14, October 2020</p> <p>ISO 6579-1 : 2017 / Amd.1 : 2020</p> <p>FDA Bacteriological Analytical Manual online, Chapter 3, January 2001</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	- Coliforms MPN/g, MPN/mL CFU/g, CFU/mL - <i>Escherichia coli</i> MPN/g, MPN/mL CFU/g, CFU/mL Detected or not detected/ 1 g or 0.1 g or 0.01 g, 1 mL or 0.1 mL or 0.01 mL	FDA Bacteriological Analytical Manual online, Chapter 4, October 2020

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	<p>- <i>Staphylococcus aureus</i> MPN/g, MPN/mL CFU/g, CFU/mL Detected or not detected/ 1 g or 0.1 g or 0.01 g, 1 mL or 0.1 mL or 0.01 mL</p> <p>- Yeasts and molds CFU/g, CFU/mL</p> <p>- <i>Clostridium perfringens</i> CFU/g, CFU/mL, Detected or not detected/ 1 g or 0.1 g or 0.01 g, 1 mL or 0.1 mL or 0.01 mL</p> <p>- <i>Listeria</i> spp. Detected or not detected/25 g Detected or not detected/25 mL</p>	<p>FDA Bacteriological Analytical Manual online, Chapter 12, March 2016</p> <p>FDA Bacteriological Analytical Manual online, Chapter 18, April 2001</p> <p>FDA Bacteriological Analytical Manual online, Chapter 16, January 2001</p> <p>ISO 11290-1 : 2017</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	<p>- <i>Listeria monocytogenes</i> Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Vibrio cholerae</i> Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Vibrio parahaemolyticus</i> MPN/g, MPN/mL Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- Enterococci CFU/g, CFU/mL</p>	<p>ISO 11290-1 : 2017</p> <p>FDA Bacteriological Analytical Manual online, Chapter 9, May 2004</p> <p>FDA Bacteriological Analytical Manual online, Chapter 9, May 2004</p> <p>Compendium of Methods for the Microbiological Examination of Foods (APHA), 5th ed., 2015, Chapter 10</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	<p>- Aerobic plate count CFU/g, CFU/mL</p> <p>- <i>Campylobacter jejuni</i> Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Campylobacter coli</i> Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Campylobacter</i> spp. Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Campylobacter lari</i> Detected or not detected/25 g Detected or not detected/25 mL</p>	<p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2015.13</p> <p>AOAC Performance Test Certificate No. 012101</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Beverage	- Coliform MPN/100 mL - <i>Escherichia coli</i> MPN/100 mL - <i>Escherichia coli</i> Detected or not detected/100 mL	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 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 D, F

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Cereal and cereal products - Beverage - Supplement food - Ready-to-eat-food - Flour and flour product Foods - Beverage	Total sugar - Sucrose - Fructose - Glucose - Maltose - Lactose 1.00 g/100 g to 40.00 g/100 g 1.00 g/100 mL to 40.00 g/100 mL - Saccharin 5.00 mg/dm ³ to 200.00 mg/dm ³ - Caffeine 5.00 mg/dm ³ to 200.00 mg/dm ³	In - house method : TM-LC-132 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 982.14 In - house method : TM-LC-062 based on Compendium of method for food Analysis, first edition, 2003, page (1-12) - (1-17)

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2 (cont.)	Foods - Aquatic animals and products	- Chloramphenicol 0.05 µg/kg to 5.00 µg/kg - Chloramphenicol 0.03 µg/kg to 1.00 µg/kg	In - house method : TM-LC-123 based on Journal AOAC 2003 Vol.86, No.6, P.1135-1143 In - house method : TM-LC-178 based on Euro Proxima, Instruction manual, B.V. 5091 CAP

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Fats and oils	Pesticide residues Organochlorine group : - Aldrin - Alpha - Chlordane - Alpha – Endosulfan - Alpha – HCH - Beta – Endosulfan - Beta – HCH - Delta – HCH - Dicofol - Dieldrin - Endosulfan sulfate - Endrin - Endrin – ketone 0.02 mg/kg to 0.20 mg/kg	In - house method : TM-GC-128 based on Journal AOAC 2005, Vol.88, No.2, P.630-638

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2 (cont.)	Foods - Fats and oils	Pesticide residues Organochlorine group : - Gamma – Chlordane - Gamma – HCH - HCB - Heptachlor - Heptachlor – exo- epoxide - Methoxychlor - <i>o,p'</i> -DDD - <i>o,p'</i> -DDE - <i>o,p'</i> -DDT - <i>p,p'</i> -DDD - <i>p,p'</i> -DDE - <i>p,p'</i> -DDT 0.02 mg/kg to 0.20 mg/kg	In - house method : TM-GC-128 based on Journal AOAC 2005, Vol.88, No.2, P.630-638

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2 (cont.)	Foods - Fats and oils	- BHT 1.00 mg/kg to 10.00 mg/kg - BHA 1.00 mg/kg to 10.00 mg/kg - TBHQ 1.00 mg/kg to 10.00 mg/kg - Acid value 0.19 mgKOH/g to 16.89 mgKOH/g - Peroxide value 4.15 meq/kg to 16.68 meq/kg	In - house method : TM-LC-061 based on AOAC Official Method of Analysis, 22 nd ed., 2023, method 983.15 In - house method : TM-PM-243 based on AOCS Official Methods CD 3d-63 AOCS Official Methods Cd 8-53 Surplus 2003

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2 (cont.)	Foods - Fats and oils	- Fatty acid (Saturated fatty acid, Mono-unsaturated fatty acid, Poly-unsaturated fatty acid, Trans Fatty acid, Omega 3, Omega 6, Omega 9) 99.5 g/100 g to 100 g/100 g	In - house method : TM-GC-120 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 996.06

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Fats and oils - Flavor based oils Foods - Meat and meat products (Fresh, Frozen, Processed) - Flour and flour products - Cereal and cereal products - Vegetables, fruits and products	- Lead 0.03 mg/kg to 2.50 mg/kg - Arsenic 0.03 mg/kg to 2.50 mg/kg - Cadmium 0.03 mg/kg to 2.50 mg/kg - Total phosphorus 0.09 g/100 g to 1.0 g/100 g - Phosphorus pentaoxide (Calculated as P ₂ O ₅) 0.21 g/100 g to 2.29 g/100 g	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01 In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 995.11

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Accreditation Number : Testing - 0111

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
2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, Processed) - Flour and flour products - Cereal and cereal products - Vegetables, fruits and products	- Total phosphate (Calculated as PO_4^{3-}) 0.28 g/100 g to 3.10 g/100 g	In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 995.11
	Foods - Aquatic animals and products	- Total phosphorus 0.02 g/100 g to 1.0 g/100 g	In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 995.11

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Aquatic animals and products	- Phosphorus pentaoxide (Calculated as P_2O_5) 0.05 g/100 g to 2.29 g/100 g - Total phosphate (Calculated as PO_4^{3-}) 0.06 g/100 g to 3.10 g/100 g	In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 995.11
	Foods - Aquatic animals and products - Fish sauce	- Histamine 5.00 mg/kg to 1 000.00 mg/kg	In - house method : TM-LC-150 based on AOAC Official Method of Analysis, 22 nd ed., 2023, method 977.13

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Aquatic animals and products	- Lead 0.003 mg/kg to 2.50 mg/kg - Cadmium 0.003 mg/kg to 2.50 mg/kg - Arsenic 0.03 mg/kg to 2.50 mg/kg - Mercury 0.02 mg/kg to 0.50 mg/kg - Copper 0.50 mg/kg to 50.00 mg/kg - Selenium 0.50 mg/kg to 50.00 mg/kg - Chromium 0.50 mg/kg to 50.00 mg/kg	In - house method : TM-HM-098 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and products - Beverage - Seasoning - Sauce	- Acidity (as citric acid) 0.010 g/100 g to 23.72 g/100 g (as acetic acid) 0.10 g/100 g to 10.10 g/100 g (as lactic acid) 0.29 g/100 g to 2.22 g/100 g (as malic acid) 0.010 g/100 g to 22.70 g/100 g	In - house method : TM-PM-020 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 942.15

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Aquatic animals and products	- Malachite green - Leucomalachite green - Crystal violet (Basic violet 3) - Leucocrystal violet 0.10 µg/kg to 3.00 µg/kg Nitrofurantoin metabolite - 3-Amino-2-oxazolidinone (AOZ) - 3-Amino-5-morpholinomethyl 2-oxazolidinone (AMOZ) - 1-Aminohydantoin (AHD) - Semicarbazide (SEM) 0.10 µg/kg to 5.00 µg/kg - Nifursol (DNSH) - Nitrovin (AGN) 0.10 µg/kg to 5.00 µg/kg	In - house method : TM-LC-124 based on Journal of AOAC, 88 (3), 2005, P.744-9 In - house method : TM-LC-125 based on J. Analytica Chimica Acta. Vol 586, 2007, P. 336-347 In - house method : TM-LC-125 based on J. Analytical and Bioanalytical Chemistry. Vol. 586, 2022, 414:1375-1388

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Aquatic animals and products	- Oxytetracycline - Doxycycline - Chlortetracycline - Tetracycline 5.00 µg/kg to 300 µg/kg Residue Quinolones group : - Oxolinic acid - Nalidixic acid - Flumequine 5.00 µg/kg to 200.00 µg/kg Residue Fluoroquinolones group : - Ciprofloxacin - Danofloxacin - Difloxacin 5.00 µg/kg to 200.00 µg/kg	In - house method : TM-LC-126 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 995.09 In - house method : TM-LC-121 based on Food and Drug Analysis, Vol.20, No.3, 2012, P.674-680 In - house method : TM-LC-121 based on Food and Drug Analysis, Vol.20, No.3, 2012, P.674-680

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Aquatic animals and products	Residue Fluoroquinolones group : - Enoxacin - Enrofloxacin - Levofloxacin - Lomefloxacin - Norfloxacin - Orbifloxacin - Pefloxacin - Sarafloxacin - Spafloxacin - Ofloxacin - Pazufloxacin - Marbofloxacin 5.00 µg/kg to 200.00 µg/kg	In - house method : TM-LC-121 based on Food and Drug Analysis, Vol.20, No.3, 2012, P.674-680

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Aquatic animals and products	Residue Sulfonamides group, Trimethoprim and Ormethoprim : - Sulfachloropyridazine - Sulfadiazine - Sulfadimethoxine - Sulfadoxine - Sulfamerazine - Sulfamethazine - Sulfamethoxazole - Sulfamethoxypyridazine - Sulfamonomethoxine - Sulfapyridine - Sulfaquinoxaline - Sulfisoxazole - Sulfathiazole - Trimethoprim - Ormethoprim 5.00 µg/kg to 200.00 µg/kg	In - house method : TM-LC-121 based on Food and Drug Analysis, Vol.20, No.3, 2012, P.674-680

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods Aquatic animals and products	- TVB-N 0.03 mg/100 g to 300.00 mg/100 g	In - house method : TM-PM-230 based on Commission regulation (EC) No. 2074/2005
	Foods - Meat and meat products (Fresh, Frozen, Processed) - Soy milk - Bean curd - Rice - Corn milk	- Detection of porcine DNA Detected or not detected LOD = 0.1 % at 100 ng of sample	In - house method : TM-MIC-056 based on Biosci. Biotechnol. Biochem., 71(12), 3131-3135, 2007

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, fruits and products - Papaya and papaya products (Fresh, Frozen, Process) - Cereal and cereal products - Peanut and peanut products - Tapioca starch - Seasoning - Sugar cane	- CaMV 35S promoter Detected or not detected LOD = 0.1 % at 100 ng of SOYA BEAN POWDER GTS 40-3-2 Soya - NOS terminator Detected or not detected LOD = 0.1 % at 100 ng of SOYA BEAN POWDER GTS 40-3-2 Soya	In - house method: TM-MIC-038 based on ISO 21569: 2005 / Amd.1 : 2013 (E)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Rice and rice products - Corn and corn products - Soybean and soybean products (Not include soy sauce and soybean oil) - Soybean and soybean products (Not include soy sauce and soybean oil)	- CaMV 35S promoter Detected or not detected LOD = 0.1 % at 100 ng of SOYA BEAN POWDER GTS 40-3-2 Soya - NOS terminator Detected or not detected LOD = 0.1 % at 100 ng of SOYA BEAN POWDER GTS 40-3-2 Soya - Roundup Ready soybeans Detected or not detected LOD = 0.1 % at 100 ng of SOYA BEAN POWDER GTS 40-3-2 Soya	In - house method : TM-MIC-039 based on ISO 21569 : 2005 (E) In - house method : TM-MIC-039 based on Eur Food Res Technol (2010), Vol.230, p.383-393 In - house method : TM-MIC-040 based on ISO 21569 : 2005 (E)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	- Coliform CFU/g, CFU/mL - <i>Escherichia coli</i> CFU/g, CFU/mL - <i>Staphylococcus aureus</i> CFU/g, CFU/mL - Enterococci CFU/g, CFU/mL	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2018.13 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2003.11, 2003.07, 2003.08 NordVal International /NMKL Certificate No. 047 (Compact Dry ETC method)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	- <i>Salmonella</i> spp.	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2016.01
	- Nut and nut products	Detected or not detected/25 g Detected or not detected/375 g	AFNOR Certificate No. 3M 01/16–11/16
	Foods	- <i>Salmonella</i> spp.	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2016.01
		Detected or not detected/25 g Detected or not detected/375 g	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2021.02 AFNOR Validation, Certificate reference No. UNI 03/07-11/13 AFNOR Validation, 2020 Certificate reference No. 3M 01/16-11/16

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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
2 (cont.)	Foods	<p>- <i>Listeria monocytogenes</i></p> <p>Detected or not detected/25 g</p> <p>Detected or not detected/25 mL</p> <p>- <i>Listeria</i> spp.</p> <p>Detected or not detected/25 g</p> <p>Detected or not detected/25 mL</p>	<p>AOAC official methods of Analysis, 22nd ed., 2023, method 2021.05</p> <p>AFNOR Validation, Certificate reference No. UNI 03/08-11/13</p> <p>AFNOR Validation, 2020 Certificate reference No. 3M 01/15-09/16</p> <p>AOAC official methods of Analysis, 22nd ed., 2023, method 2021.06</p> <p>AFNOR Validation, Certificate reference No. UNI 03/09-11/13</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	<p>- <i>Listeria</i> spp. Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- Yeasts and molds CFU/g, CFU/mL</p> <p>- Ethanol 0.05 g/100 g to 1.0 g/100 g 0.05 g/100 g (w/v) to 1.0 g/100 g (w/v) 0.05 g/100 g (v/v) to 1.0 g/100 g (v/v)</p> <p>- Net weight 1 g to 1 500 g</p> <p>- Drain weight 1 g to 1 500 g</p>	<p>AFNOR Validation, 2020 Certificate reference No. 3M 01/14-05/16</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2014.05</p> <p>In - house method : TM-GC-225 based on AOAC Official Methods of Analysis, 22nd ed., 2023, method 986.12</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 968.30</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Meat and meat products (Fresh, Frozen, processed) - Flour and flour products - Seasoning Foods - Snack - Beverage	- <i>Listeria monocytogenes</i> Detected or not detected/25 g Detected or not detected/25 mL - <i>Listeria</i> spp. Detected or not detected/25 g Detected or not detected/25 mL Sweetener - Acesulfame-K - Aspartame - Cyclamate - Sucralose 3.00 mg/kg to 5 000.00 mg/kg 3.00 mg/L to 5 000.00 mg/L	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2016.08 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2016.07 In - house method : TM-LC-189 based on Journal of food and drug Analysis, (2014), page 318-328

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods	Allergen	R-Biopharm RIDASCREEN Fast Gliadin Art. No.: R7001
	- Flour and flour products	- Allergen Gluten (Calculated as Gliadin)	
	- Snack	5.00 mg/kg to 80.00 mg/kg	
	- Ready-to-eat food	5.00 mg/L to 80.00 mg/L	
	- Beverage		
	- Meat and meat products (Fresh, Frozen, Processed)	- Allergen Wheat (Calculated as Gliadin)	
		5.00 mg/kg to 80.00 mg/kg	
		5.00 mg/L to 80.00 mg/L	
	Foods	- Allergen milk	R-Biopharm RIDASCREEN Fast Milk No. R4652
	- Flour and flour products	2.50 mg/kg to 67.50 mg/kg	
	- Sauce		
	- Seasoning	- Allergen egg	R-Biopharm RIDASCREEN Fast Egg No. R6402
	- Meat and meat products (Fresh, Frozen, Processed)	0.50 mg/kg to 13.50 mg/kg	

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2 (cont.)	Foods - Flour and flour products - Sauce - Seasoning - Meat and meat products (Fresh, Frozen, Processed)	- Allergen soybeans 2.50 mg/kg to 20.00 mg/kg - Allergen crustacean 20.00 mg/kg to 160.00 mg/kg - Allergen mustard Detected or not detected - Allergen celery Detected or not detected	R-Biopharm RIDASCREEN Fast Soya No. R7102 R-Biopharm RIDASCREEN Fast Crustacean No. R7312 R-Biopharm SureFood ALLERGEN Mustard Art. No.S3609 by Real-time PCR R-Biopharm SureFood ALLERGEN Celery Art. No. S3605 by Real-time PCR
	Foods - Meat and meat products (Fresh, Frozen, Processed) - Vegetables, Fruits and product - Beverage	- <i>Escherichia coli</i> O157:H7 Detected or not detected/ 25 g Detected or not detected/ 25 mL	AFNOR Validation, Certificate reference No. UNI 03/10-03/15 AFNOR Validation, Certificate reference No. QUA 18/07-07/10

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Flour and flour products	Melamine group - Melamine - Cyanuric acid - Ammeline - Ammelide 0.50 mg/kg to 5.00 mg/kg	In - house method : TM-GC-169 based on USFDA Laboratory Information Bulletin No.4423, Vol. 24, October 2008

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2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organochlorine group : - Aldrin - Alpha-Chlordane - Alpha-Endosulfan - Alpha-HCH - Beta-Endosulfan - Beta-HCH - Delta-HCH - Dicofol - Dieldrin - Endosulfan sulfate - Endrin - Endrin-aldehyde - Endrin-ketone 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organochlorine group : - Gamma-Chlordane - Gamma-HCH - HCB - Heptachlor - Heptachlor-exo-epoxide - Methoxychlor - o,p'-DDD - o,p'-DDE - o,p'-DDT - p,p'-DDD - p,p'-DDE - p,p'-DDT 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Pyrethroid group : - Bifenthrin - Cyfluthrin - Cypermethrin - Deltamethrin - Etofenprox - Fenvalerate - Lambda-Cyhalothrin - Permethrin 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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

Scope of Laboratory Accreditation

Laboratory Name : Intertek Testing Services (Thailand) Ltd. – Food Services

Address : 888 MEC Building, 9th – 10th Floor, Debaratna Road,
Bangna Tai, Bangna, Bangkok 10260 Thailand

Accreditation Number : Testing - 0111

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
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organophosphorous group : - Acephate - Azinphos-ethyl - Azinphos-methyl - Chlorfenvinphos - Diazinon - Dichlorvos - Dicrotophos - Dimethoate - Disulfoton - EPN - Ethion - Ethoprophos - Etrimfos 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organophosphorous group : - Fenitrothion - Fensulfothion - Fenthion - Isazofos - Malathion - Methamidophos - Methidathion - Mevinphos - Monocrotophos - Omethoate - Parathion-ethyl - Parathion-methyl 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organophosphorous group : - Phenthoate - Phorate - Phosalone - Phosphamidon - Pirimiphos-ethyl - Pirimiphos-methyl - Profenofos - Prothiophos - Triazophos - Tribufos 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organophosphorous group : - Chlopyrifos - Chlopyrifos-methyl 0.008 mg/kg to 0.10 mg/kg Carbamate group : - Aldicarb - Aldicarb sulfone - Aldicarb sulfoxide - Bendiocarb - Carbaryl - Carbofuran - Carbofuran-3-hydroxy - Fenobucarb 0.01 mg/kg to 0.05 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431 In - house method : TM-LC-060 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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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
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Carbamate group : - Isoprocab - Methiocarb - Methomyl - Oxamyl - Propoxur 0.01 mg/kg to 0.05 mg/kg Other group : - Acetochlor - Alachlor - Atrazine - Azoxystrobin - Captan 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-LC-060 based on Journal AOAC 2003, Vol.86, No.2, P.412-431 In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Other group : - Carfentrazone-ethyl - Chlorothalonil - Chlosulfuron - Cycloxydim - Diflubenzuron - Edifenphos - Fipronil - Iprodione - Isoprothiolane - Norflurazon - Oxadiazon 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Other group : - Propiconazole - Pyridaben - Tebuconazole - Tricyclazole - Trifloxystrobin 0.01 mg/kg to 0.10 mg/kg	In - house method : TM-GC-073 based on Journal AOAC 2003, Vol.86, No.2, P.412-431
3	Durian (Fresh, Chill,Frozen) - Pulp durian - Shell durian - Shell durian and Pulp durian	- Basic yellow 2 (Auramine O) 2.00 µg/kg to 50.0 µg/kg	In – house method : TM-LC-263 based on BJS 202204, 2022-02-07

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
4	Rice	- Moisture 7.20 g/100 g to 14.00 g/100 g	AOAC Official Methods of Analysis, 22 nd ed., 2023, method 925.10
5	Sugar	- Moisture	ICUMSA GS2/1/3/9-15 (2007)
	- White sugar	0.01 g/100g to 1.22 g/100g	
	- Raw sugar		
	Sugar	- Color	ICUMSA GS9/1/2/3 - 8 (2011)
	- Refined sugar	5 ICUMSA Units to	
	- White sugar	16 000 ICUMSA Units	
	- Raw sugar		
	Sugar	- Polarization	ICUMSA GS2/3-1 (2011)
	- Refined sugar	99.00 °Z to 99.97 °Z	
	- White sugar		
	- Caster sugar		
	- Rock sugar		

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Sugar - Raw sugar Other sugar - VHP sugar - Icing sugar - Brown sugar - Natural sugar	- Color 16 000 ICUMSA Units to 39 660 ICUMSA Units - Polarization 85.06 °Z to 99.80 °Z - Polarization 85.06 °Z to 99.80 °Z	In - house method : TM-AG-162 based on ICUMSA GS9/1/2/3-8 (2011) ICUMSA GS1/2/3/9-1 (2011) ICUMSA GS1/2/3/9-1 (2011)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6	Swab test	<p>- Total plate count CFU/cm², CFU/50 cm² CFU/Unit, CFU/swab</p> <p>- Yeasts and molds CFU/cm², CFU/50 cm² CFU/Unit, CFU/swab</p> <p>- Coliform CFU/cm², CFU/50 cm² CFU/Unit, CFU/swab</p> <p>- <i>Escherichia coli</i> CFU/cm², CFU/50 cm² CFU/Unit, CFU/swab</p>	<p>Compendium of Methods for the Microbiological Examination of Foods (APHA), 5th ed., 2015, Chapter 3</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2014.05</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2018.13</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6 (cont.)	Swab test	<p>- <i>Salmonella</i> spp.</p> <p>Detected or not detected/cm²</p> <p>Detected or not detected/50 cm²</p> <p>Detected or not detected/unit</p> <p>Detected or not detected/swab</p> <p>- <i>Listeria monocytogenes</i></p> <p>Detected or not detected/cm²</p> <p>Detected or not detected/50 cm²</p> <p>Detected or not detected/unit</p> <p>Detected or not detected/swab</p>	<p>AFNOR Validation, Certificate reference No. UNI 03/07-11/13</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2016.01</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2021.05</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2016.08</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6 (cont.)	Swab test	<p>- <i>Listeria</i> spp.</p> <p>Detected or not detected/cm²</p> <p>Detected or not detected/50 cm²</p> <p>Detected or not detected/unit</p> <p>Detected or not detected/swab</p> <p>Allergen</p> <p>- Allergen gluten</p> <p>(Calculated as gliadin)</p> <p>0.50 µg/swab to 8.00 µg/swab</p> <p>0.50 µg/100 cm² to 8.00 µg/100 cm²</p> <p>- Allergen wheat</p> <p>(Calculated as gliadin)</p> <p>0.50 µg/swab to 8.00 µg/swab</p> <p>0.50 µg/100 cm² to 8.00 µg/100 cm²</p>	<p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2021.06</p> <p>AOAC Official Methods of Analysis, 22nd ed., 2023, method 2016.07</p> <p>R-Biopharm RIDASCREEN Fast Gliadin Art. No. R7001</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7	Ice	- Standard 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, G

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	<p>- <i>Escherichia coli</i> Detected or not detected/100 mL</p> <p>- <i>Staphylococcus aureus</i> Detected or not detected/100 mL</p> <p>- <i>Salmonella</i> spp. Detected or not detected/100 mL</p>	<p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9221 D,F</p> <p>In - house method : TM-MIC-013 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 9213 B</p> <p>ISO 19250 : 2010</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	<p>- <i>Clostridium perfringens</i> Detected or not detected/100 mL</p> <p>- Color 5 CU to 100 CU</p> <p>- pH 4.0 to 10.0</p>	<p>Standing Committee of Analysts, Environment Agency, 2021, part 6</p> <p>In - house method : TM-PM-107 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 C</p> <p>In - house method : TM-PM-109 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-H⁺ B</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Turbidity 0.1 NTU to 4 000 NTU - Total solids dried from 103 °C to 105 °C 25 mg/L to 1 000 mg/L - Total hardness (Calculated as CaCO ₃) 10 mg/L to 500 mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2130 B Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 B Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Chloride 15 mg/L to 100 mg/L - Cyanide 0.10 mg/L to 0.50 mg/L - Fluoride 0.40 mg/L to 1.6 mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl ⁻ B Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500 CN ⁻ C, E In - house method : TM-PM-113 based on Standard Method for the Examination of Water and Wastewater, AWWA & WEF, 24 th ed., 2023, part 4500-F ⁻ D

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Nitrate (Calculated as nitrogen) 0.15 mg/L to 10 mg/L - Nitrate 0.66 mg/L to 44 mg/L - Phenol 0.001 mg/L to 0.1 mg/L - Sulfate 5 mg/L to 40 mg/L	In - house method : TM-PM-114 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-NO ₃ ⁻ A, B Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 B, C Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500 SO ₄ ²⁻ E

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Free chlorine 0.050 mg/L to 4.0 mg/L - MBAS (Calculated as LAS, MW = 348.5) (Calculated as ABS, MW = 326.5) 0.10 mg/L to 2.0 mg/L - Odor Odor or odorless	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-Cl G In - house method : TM-PM-117 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5540 C In - house method : TM-PM-108 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2150 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Mercury 0.001 mg/L to 0.010 mg/L - Beryllium 0.001 mg/L to 0.05 mg/L - Barium 0.01 mg/L to 0.5 mg/L - Cadmium 0.001 mg/L to 0.05 mg/L - Chromium 0.01 mg/L to 0.5 mg/L - Aluminum 0.01 mg/L to 0.5 mg/L - Copper 0.01 mg/L to 0.5 mg/L	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Iron 0.01 mg/L to 0.5 mg/L - Lead 0.01 mg/L to 0.5 mg/L - Manganese 0.01 mg/L to 0.5 mg/L - Nickel 0.01 mg/L to 0.5 mg/L - Selenium 0.01 mg/L to 0.5 mg/L - Silver 0.01 mg/L to 0.5 mg/L - Zinc 0.01 mg/L to 0.5 mg/L - Arsenic 0.001 mg/L to 0.05 mg/L	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	- Strontium 0.01 mg/L to 0.5 mg/L - Thallium 0.001 mg/L to 0.05 mg/L	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 B
8	Water	- Standard 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
8 (cont.)	Water	- <i>Escherichia coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 B, G
		- <i>Escherichia coli</i> Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9221 D, F
		- <i>Staphylococcus aureus</i> Detected or not detected/100 mL	In - house method : TM-MIC-013 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9213 B

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Accreditation Number : Testing - 0111

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
8 (cont.)	Water	<p>- <i>Salmonella</i> spp. Detected or not detected/100 mL</p> <p>- <i>Clostridium perfringens</i> Detected or not detected/100 mL</p> <p>- Color 5 CU to 100 CU</p> <p>- pH 4.0 to 10.0</p>	<p>ISO 19250 : 2010</p> <p>Standing Committee of Analysts, Environment Agency, 2021, part 6</p> <p>In - house method : TM-PM-107 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2120 C</p> <p>In - house method : TM-PM-109 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-H⁺ B</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
8 (cont.)	Water	- Turbidity 0.1 NTU to 4 000 NTU - Total solids dried from 103 °C to 105 °C 25 mg/L to 1 000 mg/L - Total hardness (Calculated as CaCO ₃) 10 mg/L to 500 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 2540 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
8 (cont.)	Water	- Chloride 15 mg/L to 100 mg/L - Cyanide 0.10 mg/L to 0.50 mg/L - Fluoride 0.40 mg/L to 1.6 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 4500 CN ⁻ C,E In - house method : TM-PM-113 based on Standard Method for the Examination of Water and Wastewater AWWA & WEF, 24 th ed., 2023, part 4500-F ⁻ D

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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
8 (cont.)	Water	- Nitrate (Calculated as nitrogen) 0.15 mg/L to 10 mg/L - Nitrate 0.66 mg/L to 44 mg/L - Phenol 0.001 mg/L to 0.1 mg/L - Sulfate 5 mg/L to 40 mg/L	In - house method : TM-PM-114 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-NO ₃ ⁻ A, B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 B, C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500 SO ₄ ²⁻ E

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
8 (cont.)	Water	<p>- Free chlorine 0.050 mg/L to 4.0 mg/L</p> <p>- MBAS (Calculated as LAS, MW = 348.5) (Calculated as ABS, MW = 326.5) 0.10 mg/L to 2.0 mg/L</p> <p>- Odor Odor or odorless</p>	<p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl G</p> <p>In - house method : TM-PM-117 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 5540 C</p> <p>In - house method : TM-PM-108 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2150 B</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
8 (cont.)	Water	- Mercury 0.001 mg/L to 0.010 mg/L - Beryllium 0.001 mg/L to 0.05 mg/L - Barium 0.01 mg/L to 0.5 mg/L - Cadmium 0.001 mg/L to 0.05 mg/L - Chromium 0.01 mg/L to 0.5 mg/L - Aluminum 0.01 mg/L to 0.5 mg/L - Copper 0.01 mg/L to 0.5 mg/L	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 B

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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
8 (cont.)	Water	- Iron 0.01 mg/L to 0.5 mg/L - Lead 0.01 mg/L to 0.5 mg/L - Manganese 0.01 mg/L to 0.5 mg/L - Nickel 0.01 mg/L to 0.5 mg/L - Selenium 0.01 mg/L to 0.5 mg/L - Silver 0.01 mg/L to 0.5 mg/L - Zinc 0.01 mg/L to 0.5 mg/L - Arsenic 0.001 mg/L to 0.05 mg/L	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 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
8 (cont.)	Water	- Strontium 0.01 mg/L to 0.5 mg/L - Thallium 0.001 mg/L to 0.05 mg/L	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 B
9	Dairy products	- Fat - Milk fat - Butter fat 0.05 g/100 g to 89.27 g/100 g	In - house method : TM-PM-147 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 922.06, 933.05, 938.06, 952.06, 989.05, 995.19

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
9 (cont.)	Dairy products	- Lead 0.01 mg/kg to 2.50 mg/kg - Arsenic 0.03 mg/kg to 2.50 mg/kg - Cadmium 0.03 mg/kg to 2.50 mg/kg - Total solid 7.31 g/100 g to 98.26 g/100 g - Milk solid non fat (by calculation) - Acidity (as lactic acid) 0.089 g/100 g to 1.233 g/100 g	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01 In - house method : TM-PM-179 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 990.20 AOAC Official Methods of Analysis, 22 nd ed., 2023, method 990.21 In - house method : TM-PM-020 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 947.05

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
9 (cont.)	Dairy products	<p>Allergen</p> <p>- Allergen gluten (Calculate as Gliadin) 5.00 mg/kg to 80.00 mg/kg 5.00 mg/L to 80.00 mg/L</p> <p>- Allergen wheat (Calculate as Gliadin) 5.00 mg/kg to 80.00 mg/kg 5.00 mg/L to 80.00 mg/L</p> <p>- Aflatoxin-M1 0.01 µg/kg to 3.00 µg/kg</p>	<p>R-Biopharm RIDASCREEN Fast Gliadin Art. No.: R7001</p> <p>In - house method : TM-LC-212 based on AOAC official Methods of Analysis, 22nd ed., 2023, method 2000.08</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
9 (cont.)	Dairy products	Melamine group - Melamine - Cyanuric acid - Ammeline - Ammelide 0.50 mg/kg to 5.00 mg/kg	In - house method : TM-GC-169 based on USFDA Laboratory Information Bulletin No. 4423, Vol. 24, October 2008
10	Supplement food	- Arsenic 0.03 mg/kg to 2.50 mg/kg - Cadmium 0.03 mg/kg to 2.50 mg/kg - Lead 0.03 mg/kg to 2.50 mg/kg - Mercury 0.02 mg/kg to 0.50 mg/kg	In - house method : TM-HM-226 based on The United States Pharmacopeia, 2018, USP 41, NF 36

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (cont.)	Supplement food	- Copper 0.50 mg/kg to 25.00 mg/kg - Zinc 0.50 mg/kg to 25.00 mg/kg - Tin 0.50 mg/kg to 25.00 mg/kg - Sodium 0.50 mg/100 g to 1 000.00 mg/100 g - Potassium 0.50 mg/100 g to 1 000.00 mg/100 g - Calcium 1.00 mg/100 g to 1 000.00 mg/100 g - Magnesium 0.25 mg/100 g to 250.00 mg/100 g - Iron 0.50 mg/100 g to 50.00 mg/100 g	In - house method : TM-HM-226 based on The United States Pharmacopeia, 2018, USP 41, NF 36

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (cont.)	Supplement food	<p>- <i>Escherichia coli</i></p> <p>MPN/g, MPN/mL</p> <p>Detected or not detected/ 1 g or 0.1 g or 0.01 g 1 mL or 0.1 mL or 0.01 mL</p> <p>- <i>Staphylococcus aureus</i></p> <p>CFU/g, CFU/mL</p> <p>Detected or not detected/ 1 g or 0.1 g or 0.01 g 1 mL or 0.1 mL or 0.01 mL</p>	<p>FDA Bacteriological Analytical Manual online, Chapter 4, October 2020</p> <p>FDA Bacteriological Analytical Manual online, Chapter 12, March 2016</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (cont.)	Supplement food	<p>- <i>Salmonella</i> spp. Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Clostridium</i> spp. Detected or not detected/ 10 g Detected or not detected/ 10 mL</p>	<p>ISO 6579-1 : 2017 / Amd.1 : 2020</p> <p>USP-NF : 2022</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11	Beverage and products	Synthetic color - Allura red - Amaranth - Brilliant black - Brilliant blue FCF (eriglaucine disodium salt) - Carmoisine (chromotrope FB) - Erythrosine - Fast green FCF - indigo carmine - Ponceau 4R - Quinoline yellow - Sunset yellow FCF - Tartrazine 1.00 mg/kg to 100 mg/kg 1.00 mg/mL to 100 mg/mL	In - house method : TM-LC-063 based on Journal of Talanta 74 (2008) P. 1408-1413

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
11 (cont.)	Beverage and products	Synthetic color - Acid green 50 - Acid red 2G - Patent blue 1.00 mg/kg to 100 mg/kg 1.00 mg/mL to 100 mg/mL	In - house method : TM-LC-063 based on Journal of Talanta 74 (2008) P. 1408-1413
12	Canned food	- Mesophilic aerobic bacteria Detected or not detected/2 mL Detected or not detected/2 g - Thermophilic aerobic bacteria Detected or not detected/2 mL Detected or not detected/2 g	Compendium of Method for the Microbiological Examination of Foods (APHA), 5 th ed., 2015, Chapter 61-62

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (cont.)	Canned food	- Mesophilic anaerobic bacteria Detected or not detected/2 mL Detected or not detected/2 g - Thermophilic anaerobic bacteria Detected or not detected/2 mL Detected or not detected/2 g - Facultative anaerobic bacteria Detected or not detected/2 mL Detected or not detected/2 g - Mesophilic flat sour bacteria Detected or not detected/2 mL Detected or not detected/2 g	Compendium of Method for the Microbiological Examination of Foods (APHA), 5 th ed., 2015, Chapter 61-62

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (cont.)	Canned food	- Thermophilic flat sour bacteria Detected or not detected/2 mL Detected or not detected/2 g - Thermophilic spoilage bacteria Detected or not detected/2 mL Detected or not detected/2 g - Aciduric spoilage bacteria Detected or not detected/2 mL Detected or not detected/2 g	Compendium of Method for the Microbiological Examination of Foods (APHA), 5 th ed., 2015, Chapter 61-62

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (cont.)	Canned food	- Sulfide spoilage bacteria Detected or not detected/2 mL Detected or not detected/2 g	Compendium of Method for the Microbiological Examination of Foods (APHA), 5 th ed., 2015, Chapter 61-62

Issue Date : 30th September 2025

Signature : 
(Mrs. Chantarot Vorasapavit)

Director of Bureau of Laboratory Accreditation

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