



Ref No. : 0303/10320

## CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

*Intertek Testing Services (Thailand) Ltd. – Food Services  
888 MEC Building, 9<sup>th</sup>– 10<sup>th</sup> 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



The scope of accreditation is as annexed hereto

Issue date : *30<sup>th</sup> September 2025*

Expired date : *25<sup>th</sup> June 2029*

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

Director of Bureau of Laboratory Accreditation

## Scope of Laboratory Accreditation

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

Address : 888 MEC Building, 9<sup>th</sup> – 10<sup>th</sup> 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
1	Feeding stuffs	<ul style="list-style-type: none"> <li>- Protein 2.70 g/100 g to 91.50 g/100 g</li> <li>- Crude protein 0.10 g/100 g to 91.50 g/100 g</li> <li>- Ash 1.70 g/100 g to 16.80 g/100 g</li> <li>- Moisture 6.60 g/100 g to 73.50 g/100 g</li> <li>- Fat 1.00 g/100 g to 76.00 g/100 g</li> </ul>	<ul style="list-style-type: none"> <li>Grain and Feed Trade Association, GAFTA, March 01, 2014, method 4:1</li> <li>In - house method : TM-PM-079 based on AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 984.13</li> <li>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 942.05</li> <li>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 930.15</li> <li>In - house method : TM-PM-078 based on AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 954.02</li> </ul>

Initial Issue Date 19<sup>th</sup> May 2014

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1 (cont.)	Feeding stuffs	<ul style="list-style-type: none"> <li>- Crude fat (Ether extracted) 0.30 g/100 g to 21.10 g/100 g</li> <li>- 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</li> <li>- Crude fiber 0.40 g/100 g to 60.20 g/100 g</li> </ul>	In - house method : TM-PM-155 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 920.39  In - house method : TM-GC-120 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 996.06  In - house method : TM-PM-076 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 978.10

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Feeding stuffs	- Salt (Calculated as NaCl) 0.40 g/100 g to 30.00 g/100 g  - Salt (Calculated as Cl <sup>-</sup> ) 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 <sup>nd</sup> ed., 2023, method 937.09  Method of Analysis, for Nutrition Labeling, AOAC, 1993, chapter 6

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Feeding stuffs	<ul style="list-style-type: none"> <li>- Peroxide value 0.19 meq/kg to 20.79 meq/kg</li> <li>- TVB-N 36.2 mg/100 g to 384.32 mg/100 g</li> <li>- Arsenic 0.05 mg/kg to 2.50 mg/kg</li> <li>- Mercury 0.025 mg/kg to 0.50 mg/kg</li> <li>- Lead 0.05 mg/kg to 2.50 mg/kg</li> <li>- Cadmium 0.05 mg/kg to 2.50 mg/kg</li> <li>- Calcium 1.00 mg/100 g to 125.00 mg/100 g</li> </ul>	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 <sup>nd</sup> ed., 2023, method 968.08

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
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 <sup>nd</sup> ed., 2023, method 965.17  In - house method : TM-HM-220 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 985.01

Initial Issue Date 19<sup>th</sup> May 2014

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Feeding stuffs	<ul style="list-style-type: none"> <li>- Copper 5.00 mg/kg to 500.00 mg/kg</li> <li>- Zinc 5.00 mg/kg to 500.00 mg/kg</li> <li>- Tin 5.00 mg/kg to 500.00 mg/kg</li> <li>- Water activity 0.150 to 1.000</li> <li>- Total plate count CFU/g, CFU/mL</li> <li>- Yeasts and molds CFU/g, CFU/mL</li> </ul>	In - house method : TM-HM-220 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 985.01  AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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 <sup>nd</sup> 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 <sup>nd</sup> ed., 2023, method 2021.05  In - house method : TM-MIC-182 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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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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	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 <sup>nd</sup> 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 <sup>nd</sup> 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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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 (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 <sup>nd</sup> 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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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 (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 <sup>nd</sup> ed., 2023, method 922.06, 925.32, 948.15, 950.54

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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 (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 <sup>nd</sup> ed., 2023, method 978.18

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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
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 <sup>-</sup> )  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 <sup>nd</sup> ed., 2023, method 978.10  In - house method : TM-PM-077  based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 937.09

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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) - 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 <sup>nd</sup> 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 <sup>nd</sup> 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 <sup>nd</sup> 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 - 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 <sup>3</sup> to 2.50 mg/dm <sup>3</sup> - Mercury 0.02 mg/kg to 0.50 mg/kg 0.02 mg/dm <sup>3</sup> to 0.50 mg/dm <sup>3</sup> - Lead 0.03 mg/kg to 2.50 mg/kg 0.03 mg/dm <sup>3</sup> to 2.50 mg/dm <sup>3</sup> - Cadmium 0.03 mg/kg to 2.50 mg/kg 0.03 mg/dm <sup>3</sup> to 2.50 mg/dm <sup>3</sup> - Copper 0.50 mg/kg to 50.00 mg/kg 0.50 mg/dm <sup>3</sup> to 50.00 mg/dm <sup>3</sup>	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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 - 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 <sup>3</sup> to 50.00 mg/dm <sup>3</sup> - Chromium 0.50 mg/kg to 50.00 mg/kg 0.50 mg/dm <sup>3</sup> to 50.00 mg/dm <sup>3</sup>	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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 - 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 <sup>nd</sup> 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  Foods - Beverage (Juice, Tea coffee and products)	- Cholesterol 5 mg/100 g to 500 mg/100 g  - 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 <sup>nd</sup> ed., 2023, method 994.10  In - house method : TM-GC-118 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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 <sup>nd</sup> ed., 2023, method 996.06

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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 - 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 <sup>nd</sup> ed., 2023, method 996.06

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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, 9<sup>th</sup> – 10<sup>th</sup> 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 - 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 <sup>3</sup> to 20.00 mg/dm <sup>3</sup> 3 335.00 IU/kg to 66 660.00 IU/kg 3 335.00 IU/dm <sup>3</sup> to 66 660.00 IU/dm <sup>3</sup> 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 <sup>nd</sup> ed., 2023, method 2001.13

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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 <sup>3</sup> to 20.00 mg/dm <sup>3</sup> 3 335.00 IU/kg to 66 660.00 IU/kg 3 335.00 IU/dm <sup>3</sup> to 66 660.00 IU/dm <sup>3</sup> 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 <sup>nd</sup> ed., 2023, method 2001.13

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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 - Cereal and cereal products - Vegetables, fruits and processed products - Meat and meat products (Fresh, Frozen, Processed) - Beverage  Foods - Vegetables, fruits and processed products - Beverage - Meat and meat products (Fresh, Frozen, Processed)	- 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  - 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-131 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 970.65  In - house method : TM-LC-095 based on Journal of Chromatography A, Vol.1369 (2014), P. 2-17

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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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 - Rice - Cereal and cereal products - Nut and nut products - Dried food - Flour and flour products - Seasoning, fish sauce, sauce - Spices - Snack - Beverage  Foods - Nut and nut products	- Aflatoxins  B <sub>1</sub> 2.00 µg/kg to 10.00 µg/kg B <sub>2</sub> 2.00 µg/kg to 10.00 µg/kg G <sub>1</sub> 2.00 µg/kg to 10.00 µg/kg G <sub>2</sub> 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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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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 - 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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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 - Vegetables, fruits and products - Tea coffee and products - Beverage	- Benzoic acid 5.00 mg/kg to 200.00 mg/kg 5.00 mg/dm <sup>3</sup> to 200.00 mg/dm <sup>3</sup>  - Benzoic acid (Calculated as sodium benzoate) 5.90 mg/kg to 236.00 mg/kg 5.90 mg/dm <sup>3</sup> to 236.00 mg/dm <sup>3</sup>  - Sorbic acid 5.00 mg/kg to 200.00 mg/kg 5.00 mg/dm <sup>3</sup> to 200.00 mg/dm <sup>3</sup>  - Sorbic acid (Calculated as potassium sorbate) 6.70 mg/kg to 268.00 mg/kg 6.70 mg/dm <sup>3</sup> to 268.00 mg/dm <sup>3</sup>	In - house method : TM-LC-062 based on US ISO 22855 : 2008

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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 - 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 <sub>2</sub> ) 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 <sup>nd</sup> ed., 2023, method 990.28

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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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 - 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 <sup>nd</sup> ed., 2023, method 985.29

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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	<ul style="list-style-type: none"> <li>- Sodium 0.50 mg/100 g to 10.00 mg/100 g</li> <li>- Calcium 1.00 mg/100 g to 125.00 mg/100 g</li> <li>- Iron 0.05 mg/100 g to 2.50 mg/100 g</li> <li>- Zinc 0.05 mg/100 g to 2.50 mg/100 g</li> <li>- Potassium 0.50 mg/100 g to 10.00 mg/100 g</li> <li>- Manganese 0.05 mg/100 g to 2.50 mg/100 g</li> <li>- Magnesium 0.25 mg/100 g to 5.00 mg/100 g</li> <li>- Tin 0.05 mg/100 g to 2.50 mg/100 g</li> </ul>	In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 2015.01

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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## Scope of Laboratory Accreditation

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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	<ul style="list-style-type: none"> <li>- Sodium 5.00 mg/kg to 10 000.00 mg/kg</li> <li>- Calcium 10.00 mg/kg to 10 000.00 mg/kg</li> <li>- Potassium 5.00 mg/kg to 10 000.00 mg/kg</li> <li>- Magnesium 2.50 mg/kg to 2 500.00 mg/kg</li> <li>- Iron 5.00 mg/kg to 500.00 mg/kg</li> <li>- Manganese 5.00 mg/kg to 500.00 mg/kg</li> <li>- Copper 5.00 mg/kg to 500.00 mg/kg</li> <li>- Zinc 5.00 mg/kg to 500.00 mg/kg</li> </ul>	In - house method : TM-HM-219 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 984.27

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

## Scope of Laboratory Accreditation

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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	<ul style="list-style-type: none"> <li>- Tin 5.00 mg/kg to 500.00 mg/kg</li> <li>- Aluminium 5.00 mg/kg to 500.00 mg/kg</li> <li>- Nickle 5.00 mg/kg to 500.00 mg/kg</li> <li>- Chromium 5.00 mg/kg to 500.00 mg/kg</li> </ul>	In - house method : TM-HM-219 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 984.27

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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 - 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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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	- 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

Initial Issue Date 19<sup>th</sup> May 2014

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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	<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>

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

## Scope of Laboratory Accreditation

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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	<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), 5<sup>th</sup> ed., 2015, Chapter 10</p>

Initial Issue Date 19<sup>th</sup> May 2014

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

Initial Issue Date 19<sup>th</sup> May 2014

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Laboratory Status :  Permanent  Site  Temporary  Mobile

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 <sup>th</sup> ed., 2023, part 9221 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, F  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 D, F

Initial Issue Date 19<sup>th</sup> May 2014

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Laboratory Status :  Permanent  Site  Temporary  Mobile

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	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	In - house method : TM-LC-132 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 982.14

	Foods - Beverage	- Saccharin 5.00 mg/dm <sup>3</sup> to 200.00 mg/dm <sup>3</sup> - Caffeine 5.00 mg/dm <sup>3</sup> to 200.00 mg/dm <sup>3</sup>	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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Initial Issue Date 19<sup>th</sup> May 2014

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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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Laboratory Status :  Permanent  Site  Temporary  Mobile

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 - Chlordan - 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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Foods - Fats and oils	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 0.02 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

Initial Issue Date 19<sup>th</sup> May 2014

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## Scope of Laboratory Accreditation

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

Address : 888 MEC Building, 9<sup>th</sup> – 10<sup>th</sup> 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 - 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 <sup>nd</sup> 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

Initial Issue Date 19<sup>th</sup> May 2014

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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 - 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 <sup>nd</sup> ed., 2023, method 996.06

Initial Issue Date 19<sup>th</sup> May 2014

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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 - 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 <sub>2</sub> O <sub>5</sub> ) 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 <sup>nd</sup> ed., 2023, method 2015.01  In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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  Foods - Aquatic animals and products	- Total phosphate (Calculated as PO <sub>4</sub> <sup>3-</sup> ) 0.28 g/100 g to 3.10 g/100 g  - 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 <sup>nd</sup> ed., 2023, method 995.11  In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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 - Aquatic animals and products  Foods - Aquatic animals and products - Fish sauce	- Phosphorus pentaoxide (Calculated as P <sub>2</sub> O <sub>5</sub> ) 0.05 g/100 g to 2.29 g/100 g  - Total phosphate (Calculated as PO <sub>4</sub> <sup>3-</sup> ) 0.06 g/100 g to 3.10 g/100 g  - Histamine 5.00 mg/kg to 1 000.00 mg/kg	In - house method : TM-PM-072 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 995.11  In - house method : TM-LC-150 based on AOAC Official Method of Analysis, 22 <sup>nd</sup> ed., 2023, method 977.13

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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 - 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 <sup>nd</sup> ed., 2023, method 2015.01

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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 - 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 <sup>nd</sup> ed., 2023, method 942.15

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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 - Aquatic animals and products	<ul style="list-style-type: none"> <li>- Malachite green</li> <li>- Leucomalachite green</li> <li>- Crystal violet (Basic violet 3)</li> <li>- Leucocrystal violet 0.10 µg/kg to 3.00 µg/kg</li> <li> Nitrofuran metabolite</li> <li>- 3-Amino-2-oxazolididone (AOZ)</li> <li>- 3-Amino-5-morpholinomethyl 2-oxazolidinone (AMOZ)</li> <li>- 1-Aminohydantoin (AHD)</li> <li>- Semicarbazide (SEM) 0.10 µg/kg to 5.00 µg/kg</li> <li> - Nifursol (DNSH)</li> <li>- Nitrovin (AGN) 0.10 µg/kg to 5.00 µg/kg</li> </ul>	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

Initial Issue Date 19<sup>th</sup> May 2014

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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 - Aquatic animals and products	<ul style="list-style-type: none"> <li>- Oxytetracycline</li> <li>- Doxycycline</li> <li>- Chlortetracycline</li> <li>- Tetracycline</li> </ul> <p>5.00 µg/kg to 300 µg/kg</p> <p>Residue Quinolones group :</p> <ul style="list-style-type: none"> <li>- Oxolinic acid</li> <li>- Nalidixic acid</li> <li>- Flumequine</li> </ul> <p>5.00 µg/kg to 200.00 µg/kg</p> <p>Residue Fluoroquinolones group :</p> <ul style="list-style-type: none"> <li>- Ciprofloxacin</li> <li>- Danofloxacin</li> <li>- Difloxacin</li> </ul> <p>5.00 µg/kg to 200.00 µg/kg</p>	In - house method : TM-LC-126 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 995.09

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## Scope of Laboratory Accreditation

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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 - 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

Initial Issue Date 19<sup>th</sup> May 2014

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## Scope of Laboratory Accreditation

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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 - 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

Initial Issue Date 19<sup>th</sup> May 2014

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

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

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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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 - 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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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 - 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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Accreditation Number : Testing - 0111

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Laboratory Status :  Permanent  Site  Temporary  Mobile

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 <sup>nd</sup> ed., 2023, method 2018.13  AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 2003.11, 2003.07, 2003.08  NordVal International /NMKL Certificate No. 047 (Compact Dry ETC method)

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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 - Nut and nut products  Foods	- <i>Salmonella</i> spp. Detected or not detected/25 g Detected or not detected/375 g  - <i>Salmonella</i> spp. Detected or not detected/25 g Detected or not detected/375 g	AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 2016.01  AFNOR Certificate No. 3M 01/16-11/16  AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 2016.01  AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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 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	<p>- <i>Listeria monocytogenes</i> Detected or not detected/25 g Detected or not detected/25 mL</p> <p>- <i>Listeria</i> spp. Detected or not detected/25 g Detected or not detected/25 mL</p>	<p>AOAC official methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2021.05 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, 22<sup>nd</sup> ed., 2023, method 2021.06 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	<ul style="list-style-type: none"> <li>- <i>Listeria</i> spp. Detected or not detected/25 g</li> <li>Detected or not detected/25 mL</li> <li>- Yeasts and molds CFU/g, CFU/mL</li> <li>- Ethanol 0.05 g/100 g to 1.0 g/100 g</li> <li>0.05 g/100 g (w/v) to 1.0 g/100 g (w/v)</li> <li>0.05 g/100 g (v/v) to 1.0 g/100 g (v/v)</li> <li>- Net weight 1 g to 1 500 g</li> <li>- Drain weight 1 g to 1 500 g</li> </ul>	<ul style="list-style-type: none"> <li>AFNOR Validation, 2020 Certificate reference No. 3M 01/14-05/16</li> <li>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2014.05</li> <li>In - house method : TM-GC-225</li> <li>based on AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 986.12</li> <li>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 968.30</li> </ul>

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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 - 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 <sup>nd</sup> ed., 2023, method 2016.08  AOAC Official Methods of Analysis, 22 <sup>nd</sup> 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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Laboratory Status :  Permanent  Site  Temporary  Mobile

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

  

2 (cont.)	Foods - Flour and flour products - Sauce - Seasoning - Meat and meat products (Fresh, Frozen, Processed)	- Allergen milk 2.50 mg/kg to 67.50 mg/kg  - Allergen egg 0.50 mg/kg to 13.50 mg/kg	R-Biopharm RIDASCREEN Fast Milk No. R4652  R-Biopharm RIDASCREEN Fast Egg No. R6402
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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
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

Initial Issue Date 19<sup>th</sup> May 2014

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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, 9<sup>th</sup> – 10<sup>th</sup> 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 - 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

Initial Issue Date 19<sup>th</sup> May 2014

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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 - Vegetables, Fruits and product - Cereal and cereal product - Sauce - Seasoning - Canned food (Vegetables and Fruits) - Dairy products	Pesticide residues Organochlorine group : - Aldrin - Alpha-Chlordan - 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

Initial Issue Date 19<sup>th</sup> May 2014

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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 - 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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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 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

Initial Issue Date 19<sup>th</sup> May 2014

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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 - 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 - Etrifos 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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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 : - 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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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 : - Phenthroate - Phorate - Phosalone - Phoshamidon - 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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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 : - 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 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 Carbamate group : - Isoprocarb - 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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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 Other group : - Carfentrazone-ethyl - Chlorothalonil - Chlosulfuron - Cycloxydim - Diflubenzuron - Edifenphos - Fipronil - Iprodione - Isoprothiolane - Norflurazon - Oxadiaazon 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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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 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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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
4	Rice	- Moisture 7.20 g/100 g to 14.00 g/100 g	AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 925.10
5	Sugar - White sugar - Raw sugar  Sugar - Refined sugar - White sugar - Raw sugar  Sugar - Refined sugar - White sugar - Caster sugar - Rock sugar	- Moisture 0.01 g/100g to 1.22 g/100g  - Color 5 ICUMSA Units to 16 000 ICUMSA Units  - Polarization 99.00 °Z to 99.97 °Z	ICUMSA GS2/1/3/9-15 (2007)  ICUMSA GS9/1/2/3 - 8 (2011)  ICUMSA GS2/3-1 (2011)

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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
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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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6	Swab test	- Total plate count CFU/cm <sup>2</sup> , CFU/50 cm <sup>2</sup> CFU/Unit, CFU/swab - Yeasts and molds CFU/cm <sup>2</sup> , CFU/50 cm <sup>2</sup> CFU/Unit, CFU/swab - Coliform CFU/cm <sup>2</sup> , CFU/50 cm <sup>2</sup> CFU/Unit, CFU/swab - <i>Escherichia coli</i> CFU/cm <sup>2</sup> , CFU/50 cm <sup>2</sup> CFU/Unit, CFU/swab	Compendium of Methods for the Microbiological Examination of Foods (APHA), 5 <sup>th</sup> ed., 2015, Chapter 3 AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 2014.05 AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 2018.13

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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6 (cont.)	Swab test	<p>- <i>Salmonella</i> spp. Detected or not detected/cm<sup>2</sup> Detected or not detected/50 cm<sup>2</sup> Detected or not detected/unit Detected or not detected/swab</p> <p>- <i>Listeria monocytogenes</i> Detected or not detected/cm<sup>2</sup> Detected or not detected/50 cm<sup>2</sup> Detected or not detected/unit Detected or not detected/swab</p>	<p>AFNOR Validation, Certificate reference No. UNI 03/07-11/13</p> <p>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2016.01</p> <p>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2021.05</p> <p>AOAC Official Methods of Analysis, 22<sup>nd</sup> 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/cm<sup>2</sup></p> <p>Detected or not detected/50 cm<sup>2</sup></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 cm<sup>2</sup> to 8.00 µg/100 cm<sup>2</sup></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 cm<sup>2</sup> to 8.00 µg/100 cm<sup>2</sup></p>	<p>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2021.06</p> <p>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2016.07</p> <p>R-Biopharm RIDASCREEN Fast Gliadin Art. No. R7001</p>

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Laboratory Status :  Permanent  Site  Temporary  Mobile

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 <sup>th</sup> ed., 2023, part 9215 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> 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 &amp; WEF, 24<sup>th</sup> 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 &amp; WEF, 24<sup>th</sup> 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	- <i>Clostridium perfringens</i> Detected or not detected/100 mL  - Color 5 CU to 100 CU  - pH 4.0 to 10.0	Standing Committee of Analysts, Environment Agency, 2021, part 6  In - house method : TM-PM-107 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2120 C  In - house method : TM-PM-109 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-H <sup>+</sup> B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
7 (cont.)	Ice	<ul style="list-style-type: none"> <li>- Turbidity 0.1 NTU to 4 000 NTU</li> <li>- Total solids dried from 103 °C to 105 °C 25 mg/L to 1 000 mg/L</li> <li>- Total hardness (Calculated as CaCO<sub>3</sub>) 10 mg/L to 500 mg/L</li> </ul>	<p>Standard Method for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2130 B</p> <p>Standard Method for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2540 B</p> <p>Standard Method for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2340 C</p>

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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 <sup>th</sup> ed., 2023, part 4500-Cl <sup>-</sup> B  Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 CN <sup>-</sup> C, E  In - house method : TM-PM-113 based on Standard Method for the Examination of Water and Wastewater, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-F <sup>-</sup> D

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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
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 <sup>th</sup> ed., 2023, part 4500-NO <sub>3</sub> <sup>-</sup> A, B  Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 5530 B, C  Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 SO <sub>4</sub> <sup>2-</sup> E

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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, 9<sup>th</sup> – 10<sup>th</sup> 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
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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> ed., 2023, part 2150 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
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 <sup>th</sup> ed., 2023, part 3125 B

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## Scope of Laboratory Accreditation

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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
7 (cont.)	Ice	<ul style="list-style-type: none"> <li>- Iron 0.01 mg/L to 0.5 mg/L</li> <li>- Lead 0.01 mg/L to 0.5 mg/L</li> <li>- Manganese 0.01 mg/L to 0.5 mg/L</li> <li>- Nickel 0.01 mg/L to 0.5 mg/L</li> <li>- Selenium 0.01 mg/L to 0.5 mg/L</li> <li>- Silver 0.01 mg/L to 0.5 mg/L</li> <li>- Zinc 0.01 mg/L to 0.5 mg/L</li> <li>- Arsenic 0.001 mg/L to 0.05 mg/L</li> </ul>	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 3125 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
7 (cont.)	Ice	<ul style="list-style-type: none"> <li>- Strontium 0.01 mg/L to 0.5 mg/L</li> <li>- Thallium 0.001 mg/L to 0.05 mg/L</li> </ul>	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 3125 B
8	Water	<ul style="list-style-type: none"> <li>- Standard plate count CFU/mL</li> <li>- Coliforms MPN/100 mL</li> </ul>	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9215 B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 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>Escherichia coli</i> MPN/100 mL</p> <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>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 9221 B, G</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> 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 &amp; WEF, 24<sup>th</sup> ed., 2023, part 9213 B</p>

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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	<ul style="list-style-type: none"> <li>- <i>Salmonella</i> spp. Detected or not detected/100 mL</li> <li>- <i>Clostridium perfringens</i> Detected or not detected/100 mL</li> <li>- Color 5 CU to 100 CU</li> <li>- pH 4.0 to 10.0</li> </ul>	<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 &amp; WEF, 24<sup>th</sup> 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 &amp; WEF, 24<sup>th</sup> ed., 2023, part 4500-H<sup>+</sup> B</p>

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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	<ul style="list-style-type: none"> <li>- Turbidity 0.1 NTU to 4 000 NTU</li> <li>- Total solids dried from 103 °C to 105 °C 25 mg/L to 1 000 mg/L</li> <li>- Total hardness (Calculated as CaCO<sub>3</sub>) 10 mg/L to 500 mg/L</li> </ul>	<p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2130 B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2540 B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2340 C</p>

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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	- 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 <sup>th</sup> ed., 2023, part 4500 - Cl <sup>-</sup> B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 CN <sup>-</sup> C,E  In - house method : TM-PM-113 based on Standard Method for the Examination of Water and Wastewater AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-F <sup>-</sup> D

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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	- 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 <sup>th</sup> ed., 2023, part 4500-NO <sub>3</sub> <sup>-</sup> A, B  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 5530 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500 SO <sub>4</sub> <sup>2-</sup> E

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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	- 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 Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> ed., 2023, part 2150 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	- 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 <sup>th</sup> ed., 2023, part 3125 B

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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
8 (cont.)	Water	<ul style="list-style-type: none"> <li>- Iron 0.01 mg/L to 0.5 mg/L</li> <li>- Lead 0.01 mg/L to 0.5 mg/L</li> <li>- Manganese 0.01 mg/L to 0.5 mg/L</li> <li>- Nickel 0.01 mg/L to 0.5 mg/L</li> <li>- Selenium 0.01 mg/L to 0.5 mg/L</li> <li>- Silver 0.01 mg/L to 0.5 mg/L</li> <li>- Zinc 0.01 mg/L to 0.5 mg/L</li> <li>- Arsenic 0.001 mg/L to 0.05 mg/L</li> </ul>	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 3125 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
8 (cont.)	Water	<ul style="list-style-type: none"> <li>- Strontium 0.01 mg/L to 0.5 mg/L</li> <li>- Thallium 0.001 mg/L to 0.05 mg/L</li> </ul>	In - house method : TM-HM-074 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 3125 B
9	Dairy products	<ul style="list-style-type: none"> <li>- Fat</li> <li>- Milk fat</li> <li>- Butter fat 0.05 g/100 g to 89.27 g/100 g</li> </ul>	In - house method : TM-PM-147 based on AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 922.06, 933.05, 938.06, 952.06, 989.05, 995.19

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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
9 (cont.)	Dairy products	<ul style="list-style-type: none"> <li>- Lead 0.01 mg/kg to 2.50 mg/kg</li> <li>- Arsenic 0.03 mg/kg to 2.50 mg/kg</li> <li>- Cadmium 0.03 mg/kg to 2.50 mg/kg</li> <li>- Total solid 7.31 g/100 g to 98.26 g/100 g</li> <li>- Milk solid non fat (by calculation)</li> <li>- Acidity (as lactic acid) 0.089 g/100 g to 1.233 g/100 g</li> </ul>	<p>In - house method : TM-HM-119 based on AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 2015.01</p> <p>In - house method : TM-PM-179 based on AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 990.20</p> <p>AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 990.21</p> <p>In - house method : TM-PM-020 based on AOAC Official Methods of Analysis, 22<sup>nd</sup> ed., 2023, method 947.05</p>

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

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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
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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Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
10 (cont.)	Supplement food	<p>- <i>Escherichia coli</i> MPN/g, MPN/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>Staphylococcus aureus</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>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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Laboratory Status :  Permanent  Site  Temporary  Mobile

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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## Scope of Laboratory Accreditation

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

Address : 888 MEC Building, 9<sup>th</sup> – 10<sup>th</sup> 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
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 <sup>th</sup> ed., 2015, Chapter 61-62

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13

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

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (cont.)	Canned food	<ul style="list-style-type: none"> <li>- Mesophilic anaerobic bacteria Detected or not detected/2 mL</li> <li>Detected or not detected/2 g</li> <li>- Thermophilic anaerobic bacteria Detected or not detected/2 mL</li> <li>Detected or not detected/2 g</li> <li>- Facultative anaerobic bacteria Detected or not detected/2 mL</li> <li>Detected or not detected/2 g</li> <li>- Mesophilic flat sour bacteria Detected or not detected/2 mL</li> <li>Detected or not detected/2 g</li> </ul>	Compendium of Method for the Microbiological Examination of Foods (APHA), 5 <sup>th</sup> ed., 2015, Chapter 61-62

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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.)	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 <sup>th</sup> ed., 2015, Chapter 61-62

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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.)	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 <sup>th</sup> ed., 2015, Chapter 61-62

Issue Date : 30<sup>th</sup> September 2025

Signature :   
(Mrs. Chantarat Vorasapavit)

Director of Bureau of Laboratory Accreditation

Initial Issue Date 19<sup>th</sup> May 2014

Issue Number 13