

The scope of recognition

(The tests have been accredited with ISO/IEC 17025)

Name of Laboratory: Central Laboratory (Thailand) Company Limited Khon kaen Branch

Address: 117/4 Moo 14, Nai Mueang, Mueang Khon Kaen,
Khon Kaen 4000, Thailand

No. LAB: AC 0929009

Type of Sample	Test	Method
Food*	Aerobic plate count (Total plate Count) (CFU)	- FDA BAM <i>Online</i> , 2001 (Chapter 3) - AOAC (2023) 990.12
	Coliforms (MPN) <i>Escherichia coli</i> (MPN) Fecal coliforms (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
	Coliforms (CFU) <i>Escherichia coli</i> (CFU)	- AOAC (2023) 998.08 - AOAC (2023) 991.14
	Coliforms (CFU)	ISO 4832 :2006
	<i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
	<i>Staphylococcus aureus</i> (MPN, CFU)	- FDA BAM <i>Online</i> , 2016 (Chapter 12) - AOAC (2023) 2003.07
	<i>Vibrio cholera</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2004 (Chapter 9)
	<i>Listeria</i> spp. (Detected or not detected)	ISO 11290-1:2017
	<i>Listeria monocytogenes</i> (Detected or not detected)	ISO 11290-1:2017

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Type of Sample	Test	Method
Food*	Yeast and Molds (CFU)	- FDA BAM <i>Online</i> , 2001 (Chapter 18) - AOAC (2023) 997.02
	<i>Bacillus cereus</i> (MPN, CFU)	FDA BAM <i>Online</i> , 2020 (Chapter 14)
	<i>Clostridium perfringens</i> (CFU, Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 16)
	Enterobacteriaceae (CFU)	AOAC (2023) 2003.01
	Enterococcus (CFU)	NordVal No.047 Compact Dry ETC
Sugar	Aerobic plate count (Total plate Count) (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 3)
	<i>Escherichia coli</i> (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
	<i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
	<i>Staphylococcus aureus</i> (MPN)	FDA BAM <i>Online</i> , 2016 (Chapter 12)
	Yeast and Mold (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 18)
	<i>Bacillus cereus</i> (MPN, CFU)	FDA BAM <i>Online</i> , 2020 (Chapter 14)
	<i>Clostridium perfringens</i> (CFU, Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 16)

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Type of Sample	Test	Method
Powdered beverage	Benzoic acid Sorbic acid	In-house method TE-CH-020 based on Nordic Committee on Food Analysis, 2 nd Edition, No. 124, 1997
	Synthetic Colors - Amaranth - Fast Green FCF - Tartrazine - Sunset Yellow FCF - Allura Red AC - Carmoisine - Ponceau 4 R - Brilliant Blue FCF - Indigo Carmine	In-house method TE-CH-163 in connection with: - TIS 696-1987 - Analytica Chimica Acta, Vol.583 (2007). P.103-110. By HPLC technique
- Starch - Sugar	Sulfur dioxide	In-house method TE-CH-018 based on AOAC (2023) 990.28

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Type of Sample	Test	Method
Powdered beverage Beverage*	Sweetener - Acesulfame-K - Aspartame - Na-Cyclamate - Saccharin - Sucralose	In-house method TE-CH-408 based on Journal Agricultural and Food Chemistry, Vol. 57, No.8 (2009)
- Cereal - Peanut - Dried chilli - Cayenne pepper	Aflatoxins B1, B2, G1, G2, Total Aflatoxin	In-house method TE-CH-025 based on AOAC (2023) 991.31 and 994.08
Starch	Arsenic (As)	In-house method TE-CH-273 by ICP-MS Technique
	Iron (Fe)	In-house method TE-CH-262 by ICP-OES Technique
Sugar	- Arsenic (As) - Copper (Cu) - Lead (Pb)	In-house method TE-CH-326 based on International Commission for Uniform method of Sugar Analysis, ICUMSA GS 2/3-23, GS2/3-24 (2005), UK

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Type of Sample	Test	Method
Sugar	Iron (Fe)	In-house method TE-CH-325 based on International Commission for Uniform method of Sugar Analysis, ICUMSA GS 2/3-23, GS2/3-24 (2005), UK
	Moisture	In-house method TE-CH-327 based on ICUMSA GS2/1/3/9-15 (2007)
- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues - alpha-BHC or alpha-HCH - aldrin (HHDN) - alpha-endosulfan - beta-BHC or beta-HCH - beta-endosulfan - bifenthrin - cis-chlordane - cyfluthrin - cypermethrin - deltamethrin - dicofol	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-Line method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754

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Type of Sample	Test	Method
- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues - dieldrin (head) - endrin - endosulfan sulfate - fenvalerate - heptachlor - heptachlor epoxide - lambda-cyhalothrin - lindane - o,p'-DDT - p,p'-TDE (DDD)	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-Line method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754
	Pesticide residues - p,p'-DDE - p,p'-DDT - permethrin - trans-chlordane - acephate - azinphos-ethyl - chlorpyrifos - diazion	In-house method TE-CH-031 based on Steinwandter, H. Universal 5 min On-Line method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754

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Type of Sample	Test	Method
- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues - dichlorvos - dicrotophos - dimethoate - EPN - ethion - fenitrothion - malathion - methamidophos - mevinphos - monocrotophos - phosalone - pirimiphos-methy - parathion-methyl	In-house method TE-CH-031 based on Steinwandter, H. Universal 5 min On-Line method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754
	Pesticide residues - pirimiphos-ethyl - parathion - prothiophos - profenofos - triazophos - 3-hydroxycarbofuran	In-house method TE-CH-032 based on Steinwandter, H. Universal 5 min On-Line method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754

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Type of Sample	Test	Method
- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues - aldicarb sulfoxide - aldicarb sulfone - aldicarb - carbofuran - carbaryl - fenobucarb - isoprocarb - methomyl - methiocarb sulfoxide - methiocarb - methiocarb sulfone - oxamyl - promecarb - thiodicarb	In-house method TE-CH-032 based on Steinwandter, H. Universal 5 min On-Line method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754
- Starch and starch product	Moisture	AOAC (2023) 925.10
- Cereal and cereal product	Ash	AOAC (2023) 923.03

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Type of Sample	Test	Method
Durian (Fresh) - Peel - Pulp	Basic Yellow 2 (Auramine O)	In-house method TE-CH-482 based on BJS 202204, 2022-02-07
Durian (Fresh, Chilled, Frozen) - Pulp	Cadmium (Cd)	In-house method TE-CH-483 based on AOAC (2023) 999.10
Fruit and Vegetable (Fresh, Chilled, Frozen)	Arsenic (As) Cadmium (Cd) Lead (Pb) Mercury (Hg)	In-house method TE-CH-486 based on AOAC (2023) 2015.01
- Cocoa and cocoa products - Powder beverage (orange flavor)	<i>Salmonella</i> spp. (Detected or not detected)	AOAC- RI PTM Certificate No. 051303
Cocoa powder products	Moisture	AOAC (2023) 931.04
	Protein Total Nitrogen	AOAC (2023) 970.22
Flour and flour products	Total Fat	AOAC (2023) 922.06
Fruits and fruit products	Ash	AOAC (2023) 940.26

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Type of Sample	Test	Method
- Vegetables and Vegetables products - Fruits and fruit products - Flour and flour products - Cereals and cereal products - Prepared foods products - Snack foods - Dessert products - Sauces, condiments, spread products and other products	Total sugar (as Invert Sugar)	Compendium of Methods for Foods Analysis, 1 st Edition, 2003, Chapter 2.49
- Ready-made and ready to eat food - Snack products in ready-to-eat packages - Cereals and products - Bakery products - Fruit and vegetable drinks	Calcium (Ca) Sodium (Na) Potassium (K)	AOAC (2023) 984.27
	Iron (Fe)	AOAC (2023) 999.10

Remark

All types of samples of the above mentioned do not contain any livestock products.

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Food*

- | | |
|--|---------------------------------|
| 1. Vegetable and Vegetable Products
(Frozen, Chilled, Processed, Fresh) | 6. Beans |
| 2. Fruit and Fruit Products
(Frozen, Chilled, Processed, Fresh) | 7. Sauce |
| 3. Starch and Starch Products | 8. Seasoning |
| 4. Cereals and Cereal Products | 9. Beverage and Powder Beverage |
| 5. Nut and Nut Products | |

Beverage*

1. Water that contains carbon dioxide or oxygen
2. Beverages that contain or are made from fruit, plants or vegetables, regardless of whether they contain carbon dioxide or oxygen
3. Beverages that contain or are made from non-fruit, plants, vegetable, or vegetables ingredients, regardless of whether they contain carbon dioxide or oxygen is mixed
4. Beverage as in (2) or (3) concentrated type, which must be diluted before consumption.
5. Dry beverage

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