



กรมวิชาการเกษตร กระทรวงเกษตรและสหกรณ์
หนังสือรับรองนี้ให้ไว้เพื่อแสดงว่า

ห้องปฏิบัติการทดสอบ
บริษัท ห้องปฏิบัติการกลาง (ประเทศไทย) จำกัด สาขาสงขลา
เลขที่ ๙/๑๑๖ ถนนกาญจนวนิชย์ ตำบลหาดใหญ่
อำเภอหาดใหญ่ จังหวัดสงขลา ๙๐๑๑๐

ได้รับการยอมรับความสามารถเป็นห้องปฏิบัติการทดสอบสินค้าเกษตรและอาหารด้านพืช
ตามหลักเกณฑ์ วิธีการ และเงื่อนไขการควบคุม กำกับ ดูแลห้องปฏิบัติการทดสอบ
สินค้าเกษตรและอาหารด้านพืชที่กรมวิชาการเกษตรให้การยอมรับ
ตามรายการและวิธีทดสอบที่กำหนดในเอกสารแนบท้าย

หมายเลขห้องปฏิบัติการ กษ ๐๙๒๙๐๐๘
ออกให้ ณ วันที่ ๑๑ กันยายน ๒๕๖๗
หมดอายุ วันที่ ๑๐ กันยายน ๒๕๗๐

(นางวิลาวัลย์ ไคร้ครวญ)
รองอธิบดี ปฏิบัติราชการแทน
อธิบดีกรมวิชาการเกษตร

The scope of recognition

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

Name of Laboratory: Central Laboratory (Thailand) Co., Ltd. Songkhla Branch

Address: 9/116 Kanchanawanich Road, Hat Yai, Hat Yai

Songkhla 90110, Thailand

No. LAB: AC 0929008

Type of Sample	Test	Method
Food*	Sorbic acid Benzoic acid	Nordic Committee on Food Analysis, No.124, 2 nd Edition, 1997, p.1-7
	Aflatoxin B ₁ Aflatoxin B ₂ Aflatoxin G ₁ Aflatoxin G ₂ Total Aflatoxin	In-house method TE-CH-343 based on AOAC (2023) 991.31
	Cadmium (Cd) Copper (Cu) Iron (Fe) Zinc (Zn) Manganese (Mn)	In-house method TE-CH-134 based on AOAC (2023) 984.27, 999.10 and 999.11
	Phosphorus Total Phosphorus (as P ₂ O ₅) Total Phosphorus (as P ₂ O ₄)	In-house method TE-CH-134 based on AOAC (2023) 984.27
	Fruit and product	Ash
Canned vegetable	Ash	AOAC (2023) 925.51
Cereal	Ash	AOAC (2023) 923.03

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(Ms.Preeyanooch Tippayawat)

Deputy Director General
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For Director General, DOA

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Type of Sample	Test	Method
- Food* - Beverages in Sealed Container	Arsenic (As) Lead (Pb) Mercury (Hg) Cadmium (Cd)	In-house method TE-CH-035 based on AOAC (2023) 2015.01
Beverages in Sealed Container	Cadmium (Cd) Copper (Cu) Iron (Fe) Zinc (Zn) Manganese (Mn) Aluminium (Al) Sodium (Na) Potassium (K) Magnesium (Mg) Calcium (Ca)	In-house method TE-CH-134 based on AOAC (2023) 984.27, 999.10 and 999.11
- Fruit and fruit products (fresh, chilled, frozen, processed) - Vegetable and vegetable products (fresh, chilled, frozen, processed)	Arsenite (As (III)) Arsenate (As (V)) Inorganic Arsenic	In-house method TE-CH-442 based on Journal of AOAC International, 2019, Vol. 102, No. 2, p.612-618

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Type of Sample	Test	Method
Vegetables and Fruits (High water and low or no chlorophyll content)	Pyrethroid group - bifenthrin - cyfluthrin - cypermethrin - deltamethrin - fenvalerate - lambda-cyhalothrin - permethrin	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique
	Organochlorine group - aldrin (HHDN) - alpha-BHC or alpha-HCH - alpha-Endosulfan - beta-BHC or beta-HCH - beta-Endosulfan - dieldrin (HEOD) - endosulfan sulfate - endrin - heptachlor - heptachlor-endo-epoxide - lindane - o,p' -DDD - o,p' - DDE - p,p' - DDT	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and low or no chlorophyll content)	Organophosphate group - chlorpyrifos - diazinon - dicrotophos - dimethoate - fenitrothion - malathion - methamidophos - mevinphos - monocrotophos - parathion-methyl - pirimiphos-ethyl - pirimiphos-methyl - profenophos - prothiophos - triazophos	In-house method TE-CH-031 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC-FPD Technique
	Carbamate group - aldicarb - aldicarb-sulfone - aldicarb-sulfoxide - carbaryl	In-house method TE-CH-246 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by LC-MS Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and low or no chlorophyll content)	Carbamate group - carbofuran - fenobucarb - isoprocarb - methiocarb - methomyl - oxamyl	In-house method TE-CH-246 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by LC-MS Technique
Vegetables and Fruits (High water and High acid content)	Organochlorine group - aldrin (HHDN) - alpha-BHC or alpha- HCH - alpha-Endosulfan - beta-BHC or beta-HCH - beta-Endosulfan - dieldrin (HEOD) - endosulfan-sulfate - endrin - heptachlor - heptachlor-endo-epoxide - lindane - o,p'-DDD - o,p'-DDE - p,p'-DDT	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and High acid content)	Pyrethroid group - bifenthrin - cyfluthrin - cypermethrin - deltamethrin - fenvalerate - lambda-cyhalothrin - permethrin	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique
	Organophosphate group - chlorpyrifos - diazinon - dicrotophos - dimethoate - fenitrothion - malathion - methamidophos - mevinphos - monocrotophos - parathion-methyl - pirimiphos-ethyl - pirimiphos-methyl - profenophos - prothiophos - triazophos	In-house method TE-CH-031 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC-FPD Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and High acid content)	Carbamate group - aldicarb - aldicarb-sulfone - aldicarb-sulfoxide - carbaryl - carbofuran - fenobucarb - isoprocarb - methiocarb - methomyl - oxamyl	In-house method TE-CH-246 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by LC-MS Technique
Vegetables and Fruits (High water and High chlorophyll content)	Organochlorine group - aldrin (HHDN) - alpha-BHC or alpha-HCH - alpha-Endosulfan - beta-BHC or beta-HCH - beta-Endosulfan - delta-BHC or delta-HCH - dieldrin (HEOD) - endosulfan-sulfate - endrin	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and High chlorophyll content)	Organochlorine group - heptachlor - heptachlor-endo-epoxide - lindane - o,p'-DDD - o,p'-DDE - o,p'-DDT - p,p'-DDT	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique
	Pyrethroid group - bifenthrin - cyfluthrin - cypermethrin - deltamethrin - fenvalerate - lambda-cyhalothrin - permethrin	In-house method TE-CH-030 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC- μ ECD Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and High chlorophyll content)	Organophosphate group - chlorpyrifos - chlorpyrifos-methyl - diazinon - dichlorvos or DDVP - dicrotophos - dimethoate - ethion - fenitrothion - malathion - methamidophos - mevinphos - parathion-ethyl - parathion-methyl - pirimiphos-ethyl - pirimiphos-methyl - profenofos - prothiophos	In-house method TE-CH-031 based on Fresenius Z Anal. Chem., 322 (1985). p.752-754 by GC-FPD Technique

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Type of Sample	Test	Method
Vegetables and Fruits (High water and High chlorophyll content)	Carbamate group - aldicarb - aldicarb-sulfone - aldicarb-sulfoxide - carbaryl - carbofuran - fenobucarb - isoprocarb - methiocarb - methomyl - oxamyl	In-house method TE-CH-246 based on Fresenius Z Anal. Chem., 322 (1985), p.752-754 by LC-MS Technique
Durian - Pulp - Peel (fresh, chilled, frozen)	Basic Yellow 2 (Auramine O)	In-house method TE-CH-482 based on BJS 202204, 2022-02-07

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Type of Sample	Test	Method
Food*	Aerobic Plate Count (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 3)
	- Coliforms (MPN) - Fecal Coliforms (MPN) - <i>Escherichia coli</i> (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
	- Coliforms (CFU) - <i>Escherichia coli</i> (CFU)	AOAC (2023) 998.08 and 991.14
	<i>Staphylococcus aureus</i> (CFU, MPN, Detected or not detected)	FDA BAM <i>Online</i> , 2016 (Chapter 12)
	<i>Vibrio cholera</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2004 (Chapter 9)
	<i>Vibrio parahaemolyticus</i> (MPN)	FDA BAM <i>Online</i> , 2004 (Chapter 9)
	<i>Listeria monocytogenes</i> (Detected or not detected)	ISO 11290-1:2017
	Yeasts and Molds (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 18)
	<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
Food*	<i>Bacillus cereus</i> (CFU, MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 14)
	Enterobacteriaceae (CFU)	ISO 21528-2:2017
	<i>Salmonella spp.</i> (Detected or not detected)	ISO 6579-1:2017/Amd 1:2020
	<i>Vibrio spp.</i> (Detected or not detected)	ISO 21872-1: 2017/Amd 1:2023
	<i>Listeria monocytogenes</i> (CFU)	ISO 11290-2: 2017
Durian	<i>Escherichia coli</i> (Detected or not detected)	ISO 7251:2005/Amd 1:2023 and confirmed by FDA BAM <i>Online</i> , 2020 (Chapter 4)
Beverages in sealed container	- <i>Escherichia coli</i> (MPN, Detected or not detected) - Total Coliforms (MPN) - Fecal Coliforms (CFU, MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 9221

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
(fresh, chilled, frozen, processed) | 12. Spices and Condiments |
| 2. Fruit and Fruit Products
(fresh, chilled, frozen, processed) | 13. Flavor enhancers |
| 3. Starch and Starch Products | 14. Snack, Cookies, Biscuit, Cracker |
| 4. Cereal and Cereal Products | 15. Jam and Jelly |
| 5. Nut and Nut Products | 16. Chocolate |
| 6. Noodle and Noodle Products | 17. Candy |
| 7. Tea, Coffee, Cocoa | 18. Potato and Potato Products |
| 8. Legume and Legume Products | 19. Ice-cream |
| 9. Semi-Instant Food Products | 20. Salad dressings and Condiments |
| 10. Ready-to- Eat- Foods | 21. Dietary Supplements product |
| 11. Sauce other kinds of sauce | 22. Dessert Products |
| | 23. Complementary Food for Infants and
Young Children |

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