

Schedule

Issue date: 26 March 2025
Valid Until: -



NO: SAMM 337

Page: 1 of 8

LABORATORY LOCATION/ CENTRAL OFFICE: 	Makmal Keselamatan dan Kualiti Makanan Pulau Pinang Jalan Bagan Luar 12000 Butterworth, Pulau Pinang , 12000, PULAU PINANG MALAYSIA
ACCREDITED SINCE :	26 MARCH 2025
FIELD(S) OF TESTING:	MICROBIOLOGICAL CHEMICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Makmal Keselamatan dan Kualiti Makanan Pulau Pinang Jalan Bagan Luar 12000 Butterworth, Pulau Pinang , 12000, Pulau Pinang
FIELD(S) OF TESTING :	MICROBIOLOGICAL, CHEMICAL

SCOPE OF TESTING : MICROBIOLOGICAL

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NO: SAMM 337

Page: 2 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Perishable Samples / Ready To Eat Food, Frozen Fish, Meat, Seafood, Poultry, Meat Products And Milk Products.	Coagulase-positive Staphylococci aureus	AOAC Official Method 2003.07-2006 Enumeration of Staphylococcus aureus in Selected Types of Processed and Prepared Foods (3M™ Petrifilm™ Staph Express Count Plate Method) AOAC Official Method 2003.08-2003: Enumeration of Staphylococcus aureus in Selected Dairy Foods AOAC Official Method 2003.11-2007: Enumeration of Staphylococcus aureus in Selected Meat, Seafood and Poultry
Foods	Aerobic Plate Count	AOAC Official Method 990.12/989.10/986.33 Aerobic Plate Count in Food (Petrifilm™ Aerobic Count Plate)
	Escherichia coli and Coliform	AOAC Official Method 991.14 – 2000 Coliform and Escherichia coli Counts in Foods (Petrifilm™ E. coli/Coliform Count Plate)
	Enterobacteriaceae	AOAC Official Method 2003.01 Enumeration of Enterobacteriaceae in Selected Foods (Petrifilm™ Enterobacteriaceae Count Plate Method)
	Yeast and Mold	AOAC Official Method 2014.05 Enumeration of Yeast and Mold in Food (3M™ Petrifilm™ Rapid Yeast and Mold Count Plate)
	Lactic Acid Bacteria	ISO 15214:1998(E) Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of mesophilic lactic acid bacteria — Colony-count technique at 30°C
	Escherichia coli O157	ISO 16554:2001(E) Microbiology of food and animal feeding stuffs – Horizontal method for the detection of Escherichia coli O157

NO: SAMM 337

Page: 3 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Food And Environmental Samples In The Area Of Food Production And Food Handling	Total Plate Count	ISO 4833-2:2013 (E) Microbiology of the food chain – Horizontal method for the enumeration of microorganisms – Part 2: Colony count at 30°C by the surface plating technique
	Coliforms	ISO 4831:2006 (E) Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of coliforms – Most probable number technique
	Campylobacter spp.	ISO 10272-1:2017 (E) Microbiology of the food chain – Horizontal method for Campylobacter spp. – Part 1: Detection method
	Cronobacter spp.	ISO 22964:2017 (E) Microbiology of food chain – Horizontal method for the detection of Cronobacter spp.
	Salmonella spp.	ISO 6579-1:2017(E) Microbiology of the food chain – Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp.
	Shigella spp.	ISO 21567:2004(E) Microbiology of food and animal feeding stuffs – Horizontal method for the detection of Shigella spp.
	Listeria monocytogenes and Listeria spp.	ISO 11290-1:2017(E) Microbiology of the food chain – Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. – Part 1: Detection method
	Listeria monocytogenes and Listeria spp.	ISO 11290-2:2017(E) Microbiology of the food chain – Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. – Part 2: Enumeration Method.

Schedule

Issue date: 26 March 2025
Valid Until: -



NO: SAMM 337

Page: 4 of 8

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	Vibrio parahaemolyticus Vibrio cholerae	ISO/TS 21872-1:2017 (E) Microbiology of the food chain – Horizontal method for the determination of Vibrio spp. – Part 1: Detection of potentially enteropathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrio vulnificus
	Coagulase-positive Staphylococci	ISO 6888-1:1999/Amd.1.2003(E) Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Technique using Baird-Parker agar medium
	Bacillus cereus	ISO 7932:2004(E) Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive Bacillus cereus — Colony-count technique at 30°C
	Enterobacteriaceae	ISO 21528-1:2017 (E) Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae a) Detection Method b) Enumeration MPN Method
	Escherichia coli	ISO 7251:2005(E) Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of presumptive Escherichia coli – Most probable number technique
Drinking Water, Mineral Water, Treated/ Potable Water	Escherichia coli and Coliform	ISO 9308-1:2014(E) Water quality - Enumeration of E.coli and coliform bacteria, Part 1: Membrane filtration method for waters with low bacteria background microflora.

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NO: SAMM 337

Page: 5 of 8

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Milk And Milk Products	Lactobacillus acidophilus	ISO 20128:2006(E) IDF 192:2006(E) Milk products – Enumeration of presumptive Lactobacillus acidophilus on a selective medium - Colony -count technique at 37°C.

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Durian	Ethephon	In House Method MOH F03-012 Determination of Highly Polar Pesticides in Food of Plant Origin by Liquid Chromatography Tandem Mass Spectrometry
Fruits & Vegetables (op)	Diazinon Chlorpyrifos methyl Tolchlophos methyl Pirimphos methyl Chlorpyrifos Quinalphos Profenophos Ethion Cyanofenphos Carbofenothion	In House Method MOH F03-017 Determination of Pesticide Residues by Gas Chromatography using commercial QuEChERS kits for extraction
Fruits And Vegetables	Propamocarb Carbendazim Carbofuran Fenobucarb Indoxacarb	In House Method MOH F03-019 Determination of Pesticide Residues in Food by Liquid Chromatography Tandem Mass Spectrometry (LCMS/MS) and/or Gas Chromatography High Resolution Accurate Mass Spectrometry (GC-HRAM)
	Dithiocarbamates (CS2)	In House Method MOH F03-005 Determination of Dithiocarbamates in Fruits and Vegetables by Gas Chromatography Mass Spectrometry
Honey	Chloramphenicol	In House Method MOH D03-009 Determination of Chloramphenicol in Honey by Liquid Chromatography Tandem Mass Spectrometry

Schedule

Issue date: 26 March 2025
Valid Until: -



NO: SAMM 337

Page: 6 of 8

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Cereal	Ochratoxin A	In House Method MOH L03-005 Determination of Ochratoxin A in Cereal and Cereal Products by Using Immunoaffinity Column Clean Up
Nuts, Cereal And Grain	Aflatoxin (Qualitative)	In House Method MOH L03-011 The Determination of Aflatoxin by Using Agrastrip Test Kit
Peanuts, Tree Nuts	Aflatoxins (sum of B1, B2, G1 and G2)	In House Method MOH L03-001 Determination of Aflatoxin B1, B2, G1 and G2 in Nuts, Cereal, Fish and their products by Using Immunoaffinity Column Clean Up and PHRED
Chili	Aflatoxins (sum of B1, B2, G1 and G2)	In House Method MOH L03-002 Determination of Aflatoxin B1, B2, G1 and G2 in Spices by Using Immunoaffinity Column and PHRED
Dried Chili	Ochratoxin A	In House Method MOH L03-009 Determination of Ochratoxin A in Spices by using Immunoaffinity Column Clean Up
Meat And Meat Products	Nitrate and Nitrite	In-House Method MOH E03-027 Determination of Nitrite and Nitrate in Meat Products using Ion Chromatography (Methrom)
	Cimaterol Salbutamol Terbutaline Clenbuterol Mabuterol Ractopamine	In House Method MOH D03-027 Determination of ?-agonist in Muscle and Offal with SPE purification by Liquid Chromatography Tandem Mass Spectrometry
Meat And Meat Products, Fish And Fishery Products	Chloramphenicol Florphenicol Thiamphenicol	In House Method MOH D03-021 Determination of Phenicol Residues in Muscle and Offal by Liquid Chromatography Tandem Mass Spectrometry
Fish And Fishery Products	Monophosphate Diphosphate Triphosphate Citrate	In House Method MOH E03-022 The Determination of Citrate and Polyphosphate in Fish and Fish Products using Ion Chromatography (Metrohm)

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Schedule

Issue date: 26 March 2025
Valid Until: -



NO: SAMM 337

Page: 7 of 8

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Fish Meat	4, 4 DDD 4, 4 DDT Gamma HcH Beta HcH Delta HcH Aldrin Heptachlor Exo Epoxide Heptachlor Endo Epoxide Endrin Heptachlor Alpha HCH Gamma Chlordane Cis Chlordane Dieldrin 4,4 DDE	In House Method MOH F04-030 Determination of Organochlorine Pesticide Residue in Fish, Meat and its Products using QuEChERS Method by Gas Chromatography (modified from Method F04-024)
Bird Nest (raw And Edible)	Nitrate and Nitrite	In House Method MOH E03-026 Determination of Nitrite and Nitrate in Raw & Edible Bird's Nest using Ion Chromatography (Metrohm)
Milk (liquid)	Aflatoxin M1	In House Method MOH L03-007 Determination of Aflatoxin M1 in Liquid Milk by Using Immunoaffinity Column Clean Up
Premix Coffee	Tadalafil Sildenafil Vardenafil	In House Method MOH D03-019 Determination of Synthetic Phosphodiesterase-5 Inhibitors in Pre-mixed Coffee and Herbal Dietary Supplement using High Performance Liquid Chromatography

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Schedule

Issue date: 26 March 2025
Valid Until: -



NO: SAMM 337

Page: 8 of 8

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	Acetildenafil, Amino Tadalafil, Avanafil, Desmethyl Fondenafil, 2-(2-Ethoxyphenyl)-5-Methyl-7-Propyl-3H-Imidazo[5, 1-F][1,2,4]Triazin-4-One, Fondenafil, Gendenafil, Homo Sildenafil, Hydroxy Acetildenafil, Hydroxyhomo Sildenafil, Hydroxythiomo Sildenafil, Methisosildenafil, N-Desethyl Acetildenafil, Nor Acetildenafil, Norneo Sildenafil, Propoxyphenyl Thiohydroxyhomosildenafil, Sildenafil, Sildenafil N-Oxide, Tadalafil, Thiohomo Sildenafil, Thio Sildenafil, Udenafil, Vardenafil, Yohimbine,	House Method MOH D03-019 Determination of Synthetic Phosphodiesterase-5 Inhibitors in Pre-mixed Coffee and Herbal Dietary Supplement using High Performance Liquid Chromatography

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