

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 1 of 15

LABORATORY LOCATION:
(PERMANENT LABORATORY)

EUROFINS FOOD TESTING MALAYSIA SDN. BHD.
52, LORONG PERDA SELATAN 1
BANDAR PERDA
14000 BUKIT MERTA JAM
PULAU PINANG
MALAYSIA

FIELDS OF TESTING:**CHEMICAL, MICROBIOLOGY & NUCLEIC ACID**

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).

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product - Cereal Products - Cocoa and Cocoa Products - Dairy products - Egg and Egg Products - Fish and Fish Products - Flour and Confectionary - Frozen Food - Meat and Meat Products - Non-Alcoholic Beverages - Nuts, Fruits, Vegetables and Derived Products - Sauces, Herbs, Spices and Condiments - Sugar & sugar Products	Energy	AOAC Chapter 6, Methods of analysis for nutrition labeling (1993)
	Calories	
	Calories from Fat	AOAC Chapter 6, Methods of analysis for nutrition labeling (1993)
	Carbohydrate	AOAC Chapter 6, Methods of analysis for nutrition labeling (1993)
	Carbohydrate, Available	FAO Food and Nutrition Paper 77, Chapter 2 (2003)
	Fat	In-house method EUPGFD.SOP.TM.CHEM.15 based on Pearson's Composition and Analysis of Food, 9 th Edition, 1991. Page 22-25
	Protein	In-house method EUPGFD.SOP.TM.CHEM.09 based on AOAC 991.20 (2012)

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 2 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product (continued) • Cereal Products • Cocoa and Cocoa Products • Dairy products • Egg and Egg Products • Fish and Fish Products • Flour and Confectionary • Frozen Food • Meat and Meat Products • Non-Alcoholic Beverages • Nuts, Fruits, Vegetables and Derived Products • Sauces, Herbs, Spices and Condiments • Sugar & sugar Products	Moisture Ash Total Sugar, as invert	In-house method EUPGFD.SOP.TM.CHEM.07 based on AOAC 925.45B (2012) In-house method EUPGFD.SOP.TM.CHEM.01 based on AOAC 923.03 (2012) In-house method EUPGFD.SOP.TM.CHEM.10 based on AOAC 968.28 (2012)
Food Product • Cereal and Cereal Products • Cocoa and Cocoa Products • Dairy Products • Edible Fat and Edible Oil • Egg and Egg Products • Fish and Fish Products • Flour and Confectionary • Frozen Food • Meat and Meat Products • Tea, Coffee, Chicory and Related Products • Sauces, Herbs, Spices and Condiments • Vegetable and Vegetables Products	Total Fat <u>Fatty Acid Profile</u> Total Saturated Fat Butyric acid (C4:0) Caproic acid (C6:0) Caprylic acid (C8:0) Capri acid (C10:0) Lauric acid (C12:0) Tridecanoic acid (C13:0) Myristic acid (C14:0) Pentadecanoic acid (C15:0) Palmitic acid (C16:0) Margaric acid (C17:0) Stearic acid (C18:0) Arachidic acid (C20:0) Heneicosanoic acid (C21:0) Behenic acid (C22:0) Tricosanoic acid (C23:0) Lignoceric acid (C24:0)	AOAC 996.06 (2012)

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 3 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product (continued) - Cereal and Cereal Products - Cocoa and Cocoa Products - Dairy Products - Edible Fat and Edible Oil - Egg and Egg Products - Fish and Fish Products - Flour and Confectionary - Frozen Food - Meat and Meat Products - Tea, Coffee, Chicory and Related Products - Sauces, Herbs, Spices and Condiments - Vegetable and Vegetables Products	Total Monounsaturated Fat (cis) Myristoleic acid (C14:1) <i>cis</i> -10 Pentadecanoic acid (C15:1) Palmitoleic acid (C16:1) <i>cis</i> -10 Heptadecenoic acid (C17:1) Oleic acid (C18:1n9c) <i>cis</i> -11 Eicosenoic acid (C20:1) Erucic acid (C22:1n9) Nervonic acid (C24:1n9)	AOAC 996.06 (2012)
	Total Polyunsaturated Fat (cis) Linoleic acid (C18:2n6c) γ-Linolenic acid (C18:3n6) Linolenic acid (C18:3n3) <i>cis</i> -11,14- Eicosadienoic acid (C20:2) <i>cis</i> -8, 11,14- Eicosatrienoic acid (C20:3n6) <i>cis</i> -11,14,17- Eicosatrienoic acid (C20:3n3) <i>cis</i> -5,8,11,14,17- Eicosapentaenoic acid (C20:5n3) Arachidonic acid (C20:4n6) <i>cis</i> -13,16- Docasadienoic acid (C22:2n6) <i>cis</i> -4,7,10,13,16,19- Docosaheptaenoic acid (C22:6n3)	AOAC 996.06 (2012)
	Total Trans Fat trans-9-octadecenoic acid (C18:1n9t) Linolelaidic acid (C18:2n6t)	In-house method EUPGFD.SOP.TM.CHEM.26 based on AOAC 996.06 (2012)
	Omega 3 Omega 6 Omega 9 EPA DHA	In-house method EUPGFD.SOP.TM.CHEM.26 based on AOAC 996.06 (2012)

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 4 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product • Cereal Products • Cocoa and Cocoa Products • Dairy products • Edible Fat and Edible Oil • Egg and Egg Products • Fish and Fish Products • Flour and Confectionary • Frozen Food • Fruits and Derived Products • Meat and Meat Products • Non-Alcoholic Beverages • Nuts and Derived Products • Sauces, Herbs, Spices and Condiments • Vegetable and Derived Products	Cholesterol	In-house method EUPGFD.SOP.TM.CHEM.13 based on Journal of Food Composition and Analysis 21, 2008. Page 306–314
Food Product • Dairy products • Fish and fish products • Flour and Confectionary • Frozen Food • Meat and meat products • Nuts, Fruits, Vegetables and derived products • Non-Alcoholic Beverages • Sauces, Herbs, Spices and Condiments • Sugar and Sugar products	Benzoic Acid Sorbic Acid	In-house method EUPGFD.SOP.TM.CHEM.02 based on Journal Chromatography A, 1073, 2005. Page 393-397

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 5 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product - Alcoholic Beverages - Fish and fish products - Flour and Confectionary - Frozen food - Non-alcoholic Beverages - Sauces and Condiments - Sugar, sugar products and sweetening substance - Vegetables and derived products	Sulfur dioxide	In-house method EUPGFD.SOP.TM.CHEM.12 based on Pearson's Composition and Analysis of Food, 9 th Edition, 1991. Page 69-75
Food Product - Cereal Products - Dairy products - Egg and Egg Products - Fish and Fish Products - Flour and Confectionary - Frozen Food - Meat and Meat Products - Non-Alcoholic Beverages - Nuts, Fruits, Vegetables and derived products - Sauces, Herbs, Spices and Condiments - Sugar, sugar products and sweetening substance	pH	In-house method based on EUPGFD.SOP.TM.CHEM.08 AOAC 981.12 & 943.02 (2012)
Food Product - Cereal product - Dairy product - Fish and Fish Products - Flour and confectionary - Frozen food - Meat and Meat Products - Fruits and derived products - Non-Alcoholic Beverages - Sauces and Condiments - Sugar, sugar product and sweetening substances	Total Sugar Reducing sugar <u>Sugar Profile</u> Fructose Glucose Sucrose Maltose Lactose	In-house method EUPGFD.SOP.TM.CHEM.19 based on AOAC 982.14 (2012)

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 6 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product Honey	Total Sugar Reducing sugar	In-house method EUPGFD.SOP.TM.CHEM.20 based on AOAC 977.20 (2012)
	<u>Sugar Profile</u> Fructose Glucose Sucrose	AOAC 977.20 (2012)
Cacao and Cacao Products	Fat	In-house method EUPGFD.SOP.TM.CHEM.16 based on AOAC 963.15 (2012)
	pH	AOAC 970.21 (2012)
Food Product Milk and Milk Products	Fat	AOAC 989.05 (2012)
Food Product - Egg and egg product - Flour and Confectionary - Milk and Milk Products - Non-alcoholic beverages - Nuts, fruits, vegetables and derived products - Tea, coffee, chicory and related product	Vitamin D (sum of D2, D3) Vitamin D2 Vitamin D3	In-house method EUPGFD.SOP.TM.CHEM.17 based on AOAC 995.05 (2012)
Salt	Iodine	In-house method EUPGFD.SOP.TM.CHEM.25 based on WHO/UNICEF/ICCIDD Assessment of Iodine deficiency disorders and monitoring their elimination. A guide for programme managers. 3 rd Edition, Annex 1: Titration method for determining salt iodate and salt iodide content.

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 7 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product - Coffee and coffee products - Beverages	Caffeine	In-house method EUPGFD.SOP.TM.CHEM.21 based on BS ISO 20481: 2008
Tea and instant tea	Caffeine	In-house method EUPGFD.SOP.TM.CHEM.22 based on BS ISO 10727: 2002
Food Product - Coffee, instant coffee and coffee products - Tea, instant tea and tea products	Moisture Total solid	In-house method EUPGFD.SOP.TM.CHEM.28 based on ISO 3726:1983
Food Product - Canned Food - Cereal Products - Cacao and Cacao Products - Dairy products - Flour and Confectionary - Frozen Food - Meat and Meat Products - Nuts, Fruits, Vegetables and Derived Products - Sugar & sugar Products - Sauces, Herbs, Spices and Condiments	Water Activity	BS ISO 21807:2004
Food Product Canned Food	Drained Weight	AOAC 968.30 (2012)
Food Product Sauces	Total Nitrogen	In-house Method EUPGFD.SOP.TM.CHEM.29 based on AOAC 991.20 (2012)

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NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 8 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product Oils and Fat	Peroxide Value	AOAC 965.33 (2012)
	Free Fatty Acid (Acidity)	AOAC 940.28 (2012)
	Vitamin E (sum of Tocopherol and Tocotrienols) Alpha Tocopherol Alpha Tocotrienol Beta Tocotrienol Gamma Tocotrienol Delta Tocotrienol	In-house method EUPGFD.SOP.TM.CHEM.27 based on Excelvite EvTM_0011

Note:

AOAC	: Association of Official Analytical Chemists
BS	: British Standard
FAO	: Food and Agriculture Organization and of the United Nations
ISO	: International Organization for Standardization
WHO	: World Health Organization
UNICEF	: United Nations International Children's Emergency Fund
ICCID	: International Council for Control of Iodine Deficiency Disorders

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 9 of 15

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Agricultural Products and Materials Feed meals	Energy Calories	In-house method EUPGFD.SOP.TM.CHEM.37 based on AOAC Chapter 6, Methods of analysis for nutrition labelling (1993)
	Carbohydrate	In-house method EUPGFD.SOP.TM.CHEM.38 based on AOAC Chapter 6, Methods of analysis for nutrition labelling (1993)
	Moisture Loss on Drying	AOAC 930.15 (2012)
	Ash	AOAC 942.05 (2012)
	Crude Protein	In-house method EUPGFD.SOP.TM.CHEM.40 based on AOAC 2001.11 (2012)
	Crude Fat	In-house method EUPGFD.SOP.TM.CHEM.41 based on AOAC 2003.05

Note:

AOAC : Association of Official Analytical Chemists

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 10 of 15

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products - Beverages - Cereal and grain products - Cocoa and Cocoa Products - Dairy products - Fish and fish products - Flour and Confectionary - Frozen Food - Fruit and fruit products - Meat and meat products - Nuts and nut products - Poultry and poultry products - Sauces, Herbs, Spices & Condiments - Seafood - Sugar and sugar products - Vegetables and vegetable products	Aerobic Plate Count	FDA-BAM Chapter 3 (Plate Count) AOAC 990.12 (3M Petrifilm)
	Yeast & Mould	FDA-BAM Chapter 18 (Plate Count) AOAC 2014.05 (3M Petrifilm Rapid)
	<i>Staphylococcus aureus</i>	FDA-BAM Chapter 12 (Plate Count) AOAC 2003.07 (3M Petrifilm)
	<i>Staphylococcus spp</i>	FDA-BAM Chapter 12 (MPN)
	Coliform	FDA-BAM Chapter 4 (MPN & Plate Count) AOAC 991.14 (3M Petrifilm) ISO 4832:2006 (Plate Count)
	<i>Escherichia coli</i>	FDA-BAM Chapter 4 (MPN & Plate Count) AOAC 991.14 (3M Petrifilm) ISO 16649-2:2001 (Plate Count)
	Fecal Coliform	FDA-BAM Chapter 4 (MPN)
	<i>Salmonella</i>	FDA-BAM Chapter 5 (Detection) AOAC 2014.01 (3M Petrifilm) ISO 6579-1:2017 (Detection)
	<i>Vibrio cholera</i> <i>Vibrio parahaemolyticus</i>	FDA-BAM Chapter 9 (Detection) FDA-BAM Chapter 9 (MPN)
	<i>Listeria spp.</i> <i>Listeria monocytogenes</i>	FDA-BAM Chapter 10 (Detection) FDA-BAM Chapter 10 (Detection & Enumeration)
	<i>Clostridium perfringens</i>	FDA-BAM Chapter 16 (Plate Count)

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 11 of 15

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products (continued) - Beverages - Cereal and grain products - Cocoa and Cocoa Products - Dairy products - Fish and fish products - Flour and Confectionary - Frozen Food - Fruit and fruit products - Meat and meat products - Nuts and nut products - Poultry and poultry products - Sauces, Herbs, Spices & Condiments - Seafood - Sugar and sugar products - Vegetables and vegetable products	<i>Bacillus cereus</i> <i>Cronobacter spp</i> Enterobacteriaceae	ISO 7932:2004 (Plate Count) ISO 22964:2017 (Detection) CMMEF, Chapter 9 (Plate Count)
	<i>Campylobacter spp.</i> <i>Campylobacter jejuni</i>	FDA-BAM Chapter 7 (2000) (Detection) FDA-BAM Chapter 7 (2000) (Detection)
Food Products - Beverages - Dairy products - Processed food	Lactic Acid Bacteria	In-house method EUPGFD.SOP.TM.MB.20 based on CMMEF, Chapter 19, 5 th Edition, 2015 (Plate Count)
UHT Milk	Standard Plate Count at 55°C for 48 hours	In-house method EUPGFD.SOP.TM.MB.09 based on Standard Methods for Examination of Dairy Products, 17 th Edition (2004) (Plate Count)

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 12 of 15

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water - Drinking water - Mineral water - Potable water	Heterotrophic Plate Count/ Standard Plate Count	APHA 9215.B (Plate Count) APHA 9215.D (Membrane Filter)
	Total Coliform	APHA 9221.B (MPN) APHA 9222.B (Membrane Filter)
	Fecal Coliform	APHA 9221.E (MPN) APHA 9222.D (Membrane Filter)
	<i>Escherichia coli</i>	APHA 9221.F (MPN) APHA 9222.H (Membrane Filter)
	Fecal Streptococci	APHA 9230.C (Membrane Filter)
	<i>Clostridium perfringens</i>	HPA NSM W5 Issue 3 (Membrane Filter)
	<i>Pseudomonas aeruginosa</i>	APHA 9213.E (Membrane Filter)
	Sulphite reducing anaerobes	ISO 6461-2:1986 (Membrane Filter)

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NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 13 of 15

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Monitoring - Swab test on surface - Equipment and personnel hand	Total Bacteria Count	CMMEF, Chapter 3 (Plate Count)
	Total Yeast and Mould	
	Coliform	
	<i>Escherichia coli</i>	
	<i>Staphylococcus aureus</i>	In-house method EUPGFD.SOP.TM.MB.EM.03 based on CMMEF, Chapter 3, 5 th Edition, 2015 and FDA-BAM Chapter 12, 2016 (Plate Count)
	<i>Enterobacteriaceae</i>	In-house method EUPGFD.SOP.TM.MB.EM.04 based on CMMEF, Chapter 3 and Chapter 9, 5 th Edition, 2015 (Plate Count)
	<i>Salmonella spp.</i>	In-house method EUPGFD.SOP.TM.MB.EM.02 based on FDA-BAM Chapter 5 (Detection)
	<i>Listeria monocytogenes</i>	In-house method EUPGFD.SOP.TM.MB.EM.05 based on CMMEF, Chapter 3, 5 th Edition, 2015 and FDA-BAM Chapter 10, 2022 (Detection)
Air	Sedimentation Plate Test	In-house method EUPGFD.SOP.TM.MB.EM.06 based on CMMEF, Chapter 3, 5 th Edition, 2015 (Plate Count)
	Total Bacteria Count	
	Total Yeast and Mould	
	Bioaerosol Test	
	Total Bacteria Count	In-house method EUPGFD.SOP.TM.MB.EM.07 based on NMAM 0800, 4 th Edition (Plate Count)
	Total Yeast and Mould	

NO: SAMM 1006

(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 14 of 15

SCOPE OF TESTING: MICROBIOLOGY

Note:

- APHA : Standard Method for the Examination of Water and Waste Water
- FDA-BAM : Food and Drugs Administration-Bacteriological Analytical Manual
- AOAC : Association of Official Analytical Chemists
- ISO : International Organisation for Standardisation
- CMMEF : Compendium of Methods for the Microbiological Examination of Food

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation

NO: SAMM 1006(Issue 2, 12 December 2025 replacement
of SAMM 1006 dated 18 May 2024)

Page: 15 of 15

SCOPE OF TESTING: NUCLEIC ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Product - Beverages - Cereal and grain products - Cocoa and Cocoa Products - Dairy products - Fish and fish products - Flour and Confectionary - Frozen Food - Fruit and fruit products - Meat and meat products - Nuts and nut products - Poultry and poultry products - Sauces, Herbs, Spices & Condiments - Seafood - Sugar and sugar products - Vegetables and vegetable products	<i>Salmonella spp.</i>	EUPGFD.SOP.TM.MB.24 based on iQ-Check <i>Salmonella spp.</i> II Kit (Detection)
Environmental Monitoring Swab		

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