


NO: SAMM 334

Page: 1 of 4

LABORATORY LOCATION/ CENTRAL OFFICE: 	Makmal Keselamatan dan Kualiti Makanan Miri Lot 523, Blok 17, Jalan Pujut-Padang Kerbau, 98000 Miri, Sarawak , 98000, SARAWAK MALAYSIA
ACCREDITED SINCE :	04 SEPTEMBER 2025
FIELD(S) OF TESTING:	GENETICALLY MODIFIED ORGANISM (GMO) MICROBIOLOGICAL

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 Miri Lot 523, Blok 17, Jalan Pujut-Padang Kerbau, 98000 Miri, Sarawak , 98000, Sarawak
FIELD(S) OF TESTING :	GENETICALLY MODIFIED ORGANISM (GMO), MICROBIOLOGICAL

SCOPE OF TESTING : GENETICALLY MODIFIED ORGANISM (GMO)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Food	Screening GMO- CAMV 35S Promoter	G03-131(5) Screening of Genetically Modified Food CAMV 35S Promoter by Real –Time PCR (qPCR) – SYBR Green
	Screening GMO- NOS 3	G03-131(6) Screening of Genetically Modified Food NOS 3 by Real Time PCR (qPCR) – SYBR Green

NO: SAMM 334

Page: 2 of 4

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Screening GMO- NPT II gene	G03-131 (7) Screening of Genetically Modified Food NPT II gene by Real-Time PCR (qPCR) – SYBR Green
	Detection of Plant DNA	G03-121(2) Detection of Plant DNA by Real-Time PCR
	Detection of Lectin DNA	G03-122 (2) Detection of lectin in soybean by real-time PCR (qPCR) - SYBR Green
	Screening GMO - pat gene	MOH G03-131(4): Screening of Genetically Modified Food (pat gene) by Real-Time PCR (qPCR) – SYBR Green
	Screening GMO - cry1Ab/Ac gene	MOH G03-131(10): Screening of Genetically Modified Food (Cry1Ab/Ac gene) by RealTime PCR (qPCR) – SYBR Green

SCOPE OF TESTING : MICROBIOLOGICAL

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, Poultry And Seafood, Processed Food	Enumeration of <i>Mesophilic aerobes</i> (Total Plate Count) Surface Spread Plate Method	Section 1 Part 4 of *MMEF
	Enumeration of Coliform and <i>E.coli</i> - MPN Method	AS 1766,2,3 – 1992 of Australian Method
	Aerobic Count Plates	AOAC Official Method 990.12 (Petrifilm)
	<i>E.coli</i> Coliform Count Plates	AOAC Official Method 991.14 (Petrifilm)
	<i>S. aureus</i> Express Count Plate	AOAC Official Method 2003.07 (Petrifilm)
Food	Detection of <i>E. coli</i> 0157	ISO 16654 : 2001 (E)
	Enumeration of Coagulase Positive <i>Staphylococcus aureus</i>	ISO 6888-1 : 1999 Amd.1:2003 (E)
	Enumeration of Presumptive <i>Bacillus cereus</i>	ISO 7932 : 2004 (E)
	Enumeration of microorganisms colony count technique at 30 °C	ISO 4833 : 2003 (E)
	Enumeration Mesophilic Lactic Acid Bacteria – Colony count technique 30 °C	ISO 15214 : 1998

Schedule

Issue date: 04 September 2025
Valid Until: -



NO: SAMM 334

Page: 3 of 4

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Detection of <i>Campylobacter</i> spp – Part 1	ISO 10272-1 : 2006 (E)
	Horizontal Method for the Determination of <i>Vibrio</i> spp.-Part 1: Detection of Potentially Enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i> .	ISO 21872-1 : 2017(E)
	Horizontal Method for the Detection, Enumeration and Serotyping of <i>Salmonella</i> - Part 1 : Detection of <i>Salmonella</i> spp.	ISO 6579-1 : 2017(E)
	Yeast and Mould count in food (petrifilm)	AOAC official method 997.02
	Detection and enumeration of <i>Listeria monocytogenes</i> Part 1: Detection method	ISO 11290-1 : 1996 / Amd.1 : 2004
	Yeast and Mould Colony count technique in products with water activity greater than 0.95	ISO 21527-1:2008(E)
	Yeast and Mould Colony count technique in products with water activity less than or equal to 0.95	ISO 21527-2:2008(E)
	Microbiology of the Food Chain – Horizontal Method for Detection and enumeration of <i>Campylobacter</i> spp. – Part 2: Enumeration Method	ISO 10272-2:2017
Yogurt	Enumeration of Char. Microorganisms – colony count technique at 37 °C	ISO 7889 / 10 F 117 : 2003 (E)
	Identification of Char. Microorganisms (<i>Lactobacillus delbrueckii</i> subsp. <i>Bulgaricus</i> and <i>Streptococcus thermophilus</i>)	ISO 9232 / 10 F 146 : 2003 (E)
Food And Environment	Enumeration of Coliform – MPN Technique	ISO 4831 : 2006 (E)
	Enumeration of <i>E.coli</i> – MPN Technique	ISO 7251 : 2005 (E)
Milk Products	Enumeration of Presumptive <i>Lactobacillus acidophilus</i> on a selective medium – colony count technique at 37 °C	ISO 20128 / IDF 192 : 2006
Milk And Milk Product	Detection of <i>Cronobacter sakazakii</i>	ISO/TS 22964 : 2006 (E)

Schedule

Issue date: 04 September 2025
Valid Until: -



NO: SAMM 334

Page: 4 of 4

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Selected Foods (cheddar, Cheese, Milk, Flour, Frozen Prepared Meals, Frozen Broccoli And Nut Pieces)	Enumeration of Enterobacteriaceae in selected foods (petrifilm)	AOAC official method 2003.01
Water	Enumeration of <i>Clostridium perfringens</i> – Method using membrane filtration	ISO 14189 : 2013 (E)
	Water Quality – Enumeration of Intestinal Enterococci – Part 2 : Membrane Filtration Method	ISO 7899-2 : 2000
	Standard Methods for the Examination of Water and Wastewater. Fecal Streptococcus and Enterococcus Groups- Membrane Filter Techniques	APHA 9230 C : 1999
	Water Quality – Enumeration of the Spores of Sulfite-Reducing Anaerobes (Clostridia) – Part 2: Method by Membrane Filtration	ISO 6461/2-1986 (E)
	Detection and enumeration of <i>Pseudomonas aeruginosa</i> -membrane filtration method	ISO 16266 : 2006
	Enumeration of Escherichia coli and coliform bacteria: Part 1: membrane Filtration method for waters with low bacterial b/ground flora.	ISO 9308-1 : 2014 (E)
Drinking Water, Mineral Water	<i>Salmonella spp</i>	ISO 19250:2010
	<i>Aeromonas hydrophila</i>	EPA Method 1605:2001
	<i>Coliform and Escherichia coli</i>	ISO 9308-2:2012

Scan this QR Code or visit <https://accreditation.ism.gov.my/public/listing/cab/samm-ct/3006504> for the current scope of accreditation