

Schedule

Issue date: 28 July 2025
Valid until: 21 May 2029



NO: SAMM 877

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LABORATORY LOCATION: (PERMANENT LABORATORY)



BIO SYNERGY LABORATORIES SDN. BHD.
NO. 7, JALAN MUTIARA EMAS 6/1A
TAMAN MOUNT AUSTIN
81100 JOHOR BAHRU, JOHOR
MALAYSIA

FIELDS OF TESTING:

**CHEMICAL, MICROBIOLOGY, GENETIC MODIFIED
ORGANISM & 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: • Beverages • Flour & Confectionery • Grain, Beans & Cereal Products • Food Additives • Frozen Food • Seafood • Fruit & Vegetables & derived products, etc	Energy/Calories	Method of Analysis for Nutrition Labeling, 1993 & Food Regulation 1985
	Total Carbohydrate	Method of Analysis for Nutrition Labeling, 1993 & Food Regulation 1985
	Protein	In-House Method, WI/JC-LAB/037, Based on AOAC 2001.11
	Total Fat	In-House Method, WI/JC-LAB/038, Based on Pearson's Chemical Analysis of Foods, 8th Ed, 1990. Pg. 22
	Ash	In-House Method, WI/JC-LAB/039, Based on MS ISO 5984:1996 (Confirmed 2003)
	Moisture	In-House Method, WI/JC-LAB/040, Based on MS ISO 6496:2003 (Confirmed 2011)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food: - Beverages - Flour & Confectionery - Edible Fats & Oils - Food Additives - Frozen Food - Seafood - Fruit & Vegetables & derived products	Metals/Minerals - Antimony - Arsenic - Cadmium - Copper - Lead - Tin Mercury	In-house Method, WI/JC-LAB/041, Based on AOAC 999.11 In-house Method, WI/JC-LAB/042, Based on AOAC 971.21, Using Flow Injection Mercury System (FIMS)
Food: - Frozen Food - Edible Oils, Fats & Their Products - Flour & Confectionery - Sauces	Benzoic Acid Sorbic Acid	In-house Method WI/JC-LAB/043 based on Journal of Chromatography A, 1073, 2005. Page 393-397
Food - Dairy Products - Frozen Food - Flour & Confectionery - Nuts, Fruit & Vegetables & Derived Products - Sauces	Total Dietary Fiber Total Sugar Salt (as Sodium Chloride) Total Nitrogen	In-house Method WI/JC-LAB/029 based on AOAC 985.29 In-house Method WI/JC-LAB/035 based on AOAC 923.09 & 968.28 (page 2) MS 1120:2004 In house Method WI/JC-LAB/030 based on MS 1120: 2004

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food: - Dairy Products - Edible Oils, Fats & Their Products - Egg & Egg Products - Essential Nutrients - Fish & Fish Products - Frozen Food - Flour & Confectionery - Food Additives & Supplements - Meat, Poultry & Derived Products - Nuts, Fruits & Vegetables & Derived Products - Sauces, Herbs, Spices & Condiments - Sugar & Sugar Products	Metals/Minerals - Calcium - Magnesium - Iron - Chromium - Manganese - Zinc - Sodium - Potassium - Nickel	In-House Method WI/JC-LAB/033 based on AOAC 999.11 and APHA 3120 B
- Dairy Products - Edible oils/Fats & their Products - Egg & Egg Products - Fish & Fish Products - Flour & Confectionery - Honey & Honey Products - Meat, poultry & Derived Product	Fatty Acid (Saturated Fat, Unsaturated Fat, Trans Fat)	In-House method WI/JC-LAB/046 based on AOAC 996.06
- Alcoholic & Non-Alcoholic Beverages - Cereal, Flour & Confectionery - Cocoa and Cocoa Products - Dairy Products - Edible Oils, Fats & Derived Products - Feeds - Frozen Food - Meat, Poultry & Derived Products - Sauces, Herbs, Spices & Condiments - Sugar & Sugar Products - Traditional Medicines	Cholesterol	GB 5009.128

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products: - Alcohol & Non-alcoholic - Dairy Products - Edible Oils, Fats & Their Products - Egg & Egg Products - Essential Nutrients - Fish & Fish Products - Frozen Food - Flour & Confectionery - Food Additives & Supplements - Honey & Honey Products - Meat, Poultry & Derived Products - Nuts, Fruits & Vegetables & Derived Products - Feed, Sauces, Herbs, Spices & Condiments - Sugar & Sugar Products - Traditional Medicine	Sulphur Dioxide	In-House Method WI/JC-LAB/051 based on Pearson's Chemical Analysis of Food, 8 th Edition, 1990, page 64-65
- Sugar & Sugar based Food Products - Flour & Confectionery - Sauces - Alcoholic & Non-Alcoholic Beverages - Frozen Food	Fructose, Glucose, Lactose, Maltose & Sucrose	In-House Method WI/JC-LAB/111 based on AOAC 980.13 & GB 5009.6-2016

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pharmaceutical Products (Traditional Medicine), • Tablet • Powder • Soft Capsule • Hard Capsule	Mercury	BP 2019, Vol. V Appendix VII & IID (FIMS)
	Lead Cadmium Copper Arsenic Nickel	BP 2019, Vol. V Appendix VII & IID (AAS)
Pharmaceutical Products	Visible Particulates	EP 2.9.20
	Sub-visible Particulates	EP 2.9.19 Method I
Palm Oil & Palm Oil Products	Moisture & Volatile Matter	MPOB p2.1 Part 1:2004
	Impurities	MPOB p2.2:2004
	Peroxide Value	MPOB p2.3:2004
	Acidity/FFA	MPOB p2.5:2004
	Iodine Value	MPOB p3.2:2004
	Colour Lovibond	MPOB p4.1 Part 1:2004
	Slip Melting Point	MPOB p4.2:2004
	Anisidine value	MPOB p2.4:2004
	Acid Value	AOCS Official Method Cd 3d-63: 2017
	Iodine Value	AOCS Official Method Cd 1d-92: 2017
	Saponification Value	AOCS Official Method Cd 3-25: 2017
	Cloud Point	AOCS Cc 6-25
	Peroxide Value	AOCS Cd 8-53
	Slip Melting Point	AOCS Cc 3-25
	DOBI	MPOB p2.9:2004
	Free Fatty Acid	AOCS Ca 5a-40
	Moisture & Volatile Matter	AOCS Ca 2c-25

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Feed	Energy/Calories	Method of Analysis for Nutrition Labeling, 1993 & Food Regulation 1985
	Total Carbohydrate	Method of Analysis for Nutrition Labeling, 1993 & Food Regulation 1985
	Protein	AOAC 2001.11
	Crude Fat	MS 1416:1997
	Crude Ash	MS ISO 5984:1996 (Confirmed 2003)
	Moisture	MS ISO 6496:2003 (Confirmed 2011)
	Crude Fiber	AOAC 962.09
	Metals/Minerals • Antimony • Arsenic • Cadmium • Copper • Lead • Tin	In-house Method, WI/JC-LAB/044, Based on AOAC 999.11
	Mercury	In-house Method, WI/JC-LAB/045, Based on AOAC 971.21, Using Flow Injection Mercury System (FIMS)

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water - Potable & Domestic - Industrial Water - Distilled Demineralized - Reverse Osmosis - Ultrapure Water - Swimming Pool Water - Cooling Tower Water - Boiler Water - Surface Water - Mineral Water - Industrial Effluent, etc	pH	APHA 4500 H ⁺ B
	Total Suspended Solid	APHA 2540 D
	Oil and grease	APHA 5520 B
	Color	APHA 2120 F
	Chemical Oxygen Demand	APHA 5220 D
	Biochemical Oxygen Demand	APHA 5210 B & 4500 O G
	Color Pt-Co	APHA 2120 C, 22 nd edition
	Total Dissolved Solid	APHA 2540 C, 22 nd edition
	Total Solid	APHA 2540 B, 22 nd edition
	Temperature	APHA 2550 B, 22 nd edition
	Chromium hexavalent	APHA 3500 Cr B, 22 nd edition
	Fluoride	HACH Spectrophotometer 10225, 9 th edition
	Formaldehyde	HACH Spectrophotometer 8110, 8 th edition
	Free chlorine	HACH Spectrophotometer 8021, 9 th edition
	Sulphide	HACH Spectrophotometer 8131, 10 th edition
	Ammoniacal nitrogen	In-house Method WI/JC-LAB/014, based on APHA 4500-NH ³ B&C, 22 nd edition
	Chloride	HACH Spectrophotometer Method 8225, 8 th edition
	Cyanide	HACH Spectrophotometer Method 8027, 9 th edition
	Nitrate	APHA 4500 NO ₃ -B
	Nitrite	APHA 4500 NO ₂ -B
	Phenol	In-house Method WI/JC-LAB/002, based on HACH Spectrophotometer Method 8047, 8 th edition

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water (Continue) - Potable & Domestic - Industrial Water - Distilled Demineralized - Reverse Osmosis - Ultrapure Water - Swimming Pool Water - Cooling Tower Water - Boiler Water - Surface Water - Mineral Water - Industrial Effluent, etc	Sulfate	HACH Spectrophotometer Method 8051, 10 th edition
	Turbidity	APHA 2130 B
	Hardness	APHA 2340 B
	Metals/Minerals	APHA 3120 B & 3030 F
	- Aluminium - Arsenic - Barium - Boron - Cadmium - Chromium - Copper - Iron - Lead - Magnesium - Manganese - Calcium - Nickel - Selenium - Silver - Zinc	
	Tin	In-House Method WI/JC-LAB/036 based on APHA 3120 B and APHA 3030 F, 22 nd Edition
	Chromium Trivalent	In-House Method WI/JC-LAB/022 based on APHA 3500 Cr B and APHA 3120 B, 22 nd Edition
	Mercury	In-House Method WI/JC-LAB/025 based on APHA 3112B, using FIMS

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water (Continue) - Potable & Domestic - Industrial Water - Distilled Demineralized - Reverse Osmosis - Ultrapure Water - Swimming Pool Water - Cooling Tower Water - Boiler Water - Surface Water - Mineral Water	Phosphate Nitrate Nitrogen	HACH Spectrophotometer Method 8048, 10 Edition HACH Spectrophotometer Method 8192, 11 Edition
Water Mineral Water	Lead, Arsenic	In-House Method WI/JC-LAB-056, based on APHA 3113B
Environmental Monitoring Industrial Effluent	Phosphate	HACH Spectrophotometer Method 8048, 10 Edition
Sand Filter	Particle Size Distribution by Sieving Method	BS EN 933-1
- Raw Palm Oil Mill Effluents - Treated Palm Oil Mill Effluent	BOD (3 days @ 30°C Oil & Grease Suspended Solids Total Nitrogen Ammoniacal Nitrogen	DOE Standard Method (Reference Method), 4 th Edition
- Water and Wastewater - Palm Oil Mill Effluents - Rubber Effluent	Mixed Liquor Suspended Solid (MLSS) Mixed Liquor Volatile Suspended Solid (MLVSS) Collection and Preservation of Water Samples	APHA 2540 D APHA 2540 E APHA 1060
Scheduled Waste - Solid Waste - Liquid Waste - Soil and Waste - Liquid Waste	Al, As, Ba, Be, B, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni pH pH Specific Gravity Flash Points	In-House Method based on USEPA 6010D, USEPA 3050B and APHA 3030E USEPA 9045D APHA 4500 H ⁺ ASTM D891-09, Method B USEPA 1010A

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Petroleum Product	Oxidation Stability of Steam Turbine Oils by Rotating Pressure Vessels	ASTM D 2272-11
	Acid Number of Petroleum Products by Potentiometric Titration	ASTM D 664-07
	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fischer Titration	ASTM D 6304-04a
	Kinematic Viscosity of Transparent and Opaque Liquids at 40 °C	ASTM D 445-15a
	Kinematic Viscosity of Transparent and Opaque Liquids at 100 °C	ASTM D 445-15a
	Calculating Viscosity Index from Kinematic Viscosity at 40 °C and 100 °C	ASTM D 2270-04
	Flash Point by Pensky-Martens Closed Cup Tester	ASTM D 93-02a
	Distillation of Petroleum Products at Atmospheric Pressure	ASTM D 86-09
	Total Base Number of Petroleum Products by Potentiometric Titration	ASTM D 2896-15
	Pour Point of Petroleum Products	ASTM D 97-06

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Petroleum Product	Cloud Point of Petroleum Products and Liquid Fuels ASTM Color of Petroleum Products Density, Relative Density or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method Condition Monitoring of In-service Lubricants by Trend Analysis using Fourier Transform Infrared (FT-IR) Spectrometry: • Water • Nitration • Sulfate • Oxidation • Soot • Glycol • Diesel Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES): • Aluminium • Barium • Boron • Cadmium • Calcium • Chromium • Copper • Iron • Lead • Magnesium • Manganese • Molybdenum • Nickel • Phosphorus • Potassium • Silicon • Silver • Sodium • Sulfur • Tin • Titanium • Vanadium • Zinc	ASTM D 2500-09 ASTM D 1500-12 ASTM D 1298-12b ASTM E 2412-10 ASTM D 5185-09

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Petroleum Product	Measurement of Hindered Phenolic and Aromatic Amine Antioxidant Content in Non-Zinc Turbine Oils by Linear Sweep Voltammetry Insoluble Color Bodies in In-Service Turbine Oils using Membrane Patch Colorimetry Foaming Characteristic of Lubricating Oils Vapor Pressure of Petroleum Products (Reid Method) Corrosiveness to Copper from Petroleum Products by Copper Strip Test Cold Filter Plugging Point of Diesel and Heating Fuels	ASTM D 6971-09 (Reapproved 2014) ASTM D 7843-21 ASTM D 892-18 ASTM D 323-20a ASTM D 130-19 ASTM D 6371-17a
Petroleum Product and Oleochemicals • Diesel • Petroleum Products • Biodiesel	Total Sulphur by XRF Phosphorus Content Sulfated Ash Methanol Group I Metals (Na+K) Group II Metals (Ca+Mg) Iodine Value	ISO 13032 ASTM D4951 ASTM D874 EN 14110 EN 14538 EN 14538 EN 14111
Natural Gas • Hydrogen • Propane • Isobutane • n-Butane • n-Pentane • Hexane • Nitrogen • Methane • Carbon Dioxide • Ethane • Isopentane	Analysis of Natural Gas and Similar Gaseous Mixtures by Gas Chromatography	GPA Standard 2261-00

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- APHA : American Public Health Association, Standard Method for Examination of Water and Wastewater, 22nd Edition, 2012.
- DOE : Department of Environment. Standard Methods for Analysis of Rubber & Palm Oil Mill Effluent Department of Environment, 4th Edition, 2019.
- USEPA : United States Environmental Protection Agency, Revision 4, 2004
- AOAC : Association of Official Analytical Chemists
- GB : People's Republic of China Standard
- GPA : Gas Processors Association, Revised 2000
- ASTM : American Society for Testing and Materials
- MS : Malaysian Standard
- MPOB : Malaysian Palm Oil Board

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Products/Feed - Beverages - Edible Fats & Oils - Frozen Food - Seafood - Sauces - Fruit Drink & Juice - Flour & Confectionery - Dairy Products - Food Additives - Animal Feed	Aerobic Plate Counts (cfu/g)	AOAC 990.12 / FDA-BAM, Chapter 3, 2001
	Yeast and Mould Counts (cfu/g)	AOAC 2014.05 / FDA-BAM, Chapter 18, 2001
	<i>E. coli</i> / Coliform Count (cfu/g)	AOAC 998.08 & 991.14 / FDA-BAM, Chapter 4, 2013
	<i>Staphylococcus aureus</i> (cfu/g)	AOAC 2003.11 / FDA-BAM, Chapter 12, 2016
	<i>Salmonella</i> (Detection)	AOAC 2014.01 / FDA-BAM, Chapter 5, 2021
	<i>Salmonella</i> (Detection) (GDS)	AOAC 2009.03
	<i>Cronobacter (Enterobacter sakazakii)</i> (Detection) (GDS)	In-house Method, MJ/FD/001, Based on FDA-BAM Chapter 29, Using Genetic Detection Sytem (GDS)
	Enterobacteriaceae	AOAC 2003.01
	<i>Vibrio parahaemolyticus</i> (Detection)	ISO/TS 21872-1:2007 (E)
	<i>Vibrio cholerae</i> (Detection)	ISO/TS 21872-1:2007 (E)
	<i>Listeria monocytogenes</i>	ISO 11290-1:1996/Amd 1:2004 (E)
	<i>Clostridium perfringens</i>	FDA-BAM, Chapter 16, 2001
	<i>Clostridium botulinum</i>	FDA-BAM, Chapter 17, 2001
	<i>Bacillus cereus</i>	FDA-BAM, Chapter 14, 2012

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Effluent, Water	Heterotropic Plate Count - Pour Plate (cfu/ml) - Membrane Filtration (cfu/100ml)	APHA 9215 B APHA 9215 D
	Coliform (cfu/100ml)	APHA 9222 B
	Coliform (MPN/100ml)	APHA 9221 B
	E. coli (cfu/100ml)	APHA 9222 G
	E. coli (MPN/100ml)	APHA 9221 F
	Enumeration of Spore of Sulphite Reducing Anaerobes (Clostridia) including C. perfringens	AS/NZS 4276 17.1:2000
	Fecal Coliform (CFU/100ml)	APHA 9222 D
	Fecal Coliform (MPN/100ml)	APHA 9221 E
	Fecal Streptococci/ Enterococci (CFU/100ml)	APHA 9230 C
	Fecal Streptococci/ Enterococci (MPN/100ml)	APHA 9230 B
	Pseudomonas aeruginosa (CFU/100ml)	APHA 9213 E
	Yeast & Mould (Pour Plate CFU/ml)	APHA 9610 B
	Yeast & Mould (Membrane Filtration CFU/100ml)	APHA 9610 D
	Salmonella (CFU/100ml)	APHA 9260 B
	Staphylococcus aureus (CFU/100ml)	APHA 9213 B

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pharmaceutical Products, Food Supplement (Traditional Medicine), Cosmetic Products	Total Microbial Aerobic Count (Pour Plate)	BP 2020, Appendix XVI B
	Total Combined Yeast & Mould Count (Pour Plate)	BP 2020, Appendix XVI B
	Bile tolerant Gram Negative Bacteria	BP 2020, Appendix XVI B
	<i>Escherichia coli</i>	BP 2020, Appendix XVI B
	Salmonella	BP 2020, Appendix XVI B
	<i>Staphylococcus aureus</i>	BP 2020, Appendix XVI B
	<i>Pseudomonas aeruginosa</i>	BP 2020, Appendix XVI B
	<i>Clostridia spp</i>	BP 2020, Appendix XVI B
	<i>C. albicans</i>	BP 2020, Appendix XVI B
	Bile tolerant Gram Negative Bacteria	BP 2020, Appendix XVI F
	<i>Escherichia coli</i>	BP 2020, Appendix XVI F
	Salmonella	BP 2020, Appendix XVI F
	<i>Burkholderia cepacia</i>	In-house Method MJ/FD/002, based on BP 2020, Vol. V, Appendix XVI B & HiMedia Manual

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SCOPE OF TESTING: MICROBIOLOGY**SITE: CATEGORY I**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Air (Environment Air Sampling)	Settle Plate Test • Total plate count • Yeast count • Mould count	Compendium of Methods for Microbiological Examination of Foods, Chapter 3, 4 th Ed. (2001)
Surface, Equipment & Personnel Hand	Swab Test • Aerobic plate count • Yeast count • Mould count • Coliform count • <i>E. coli</i> count • <i>S. aureus</i> count • <i>Salmonella</i> detection • <i>Listeria spp</i> & <i>Listeria monocytogenes</i> • <i>Bacillus cereus</i> • <i>Enterobacteriaceae</i>	Compendium of Methods for Microbiological Examination of Foods, Chapter 3, 5 th Ed. (2015)

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SCOPE OF TESTING: GENETIC MODIFIED ORGANISM

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Raw Material & Food • Cooking oil • Baking products • Biscuit & Chip • Nuts & Beans • Sesame • Corn • Coffee & Tea • Fruit	Screening of GMO (35S, NOS, FMV)	In-House Method WI/GMO/001 using Real-Time PCR

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SCOPE OF TESTING: NUCLEIC ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Surface Swab Food & Food Packaging	COVID-19 [Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)] on Contaminated Surfaces	In-House Method WI/NA/001 using Real-Time PCR
Feed/Foods	Animal DNA • Porcine	In-house Method by using Real-Time PCR

- APHA : American Public Health Association, Standard Method for Examination of Water and Wastewater, 22nd Edition, 2012.
 ISO/TS : International Organization of Standardization/Technical Specification.
 FDA-BAM : Food & Drug Administration-Bacteriological Analytical Manual.
 AOAC : Association of Official Analytical Chemists, 18th Edition, 2005 (Revision 3, 2010)
 BP : British Pharmacopeia, 2020 Vol. V. Appendix XVI B