


# Schedule

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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>	Lotus Laboratory Services (M) Sdn. Bhd. No 41, Jalan Tiong Emas, Kawasan Perindustrian Tiong Nam, , 81100, JOHOR MALAYSIA
	
<b>ACCREDITED SINCE :</b>	08 DECEMBER 1997
<b>FIELD(S) OF TESTING:</b>	CHEMICAL CHEMICAL (AIR MONITORING) 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).

<b>CENTRAL LOCATION:</b>	Lotus Laboratory Services (M) Sdn. Bhd. No 41, Jalan Tiong Emas, Kawasan Perindustrian Tiong Nam, , 81100, Johor
<b>FIELD(S) OF TESTING :</b>	CHEMICAL, CHEMICAL, MICROBIOLOGICAL

## SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Drinking Water, %%% Potable And Domestic, Ground & Surface Water, Mineral Water, Ro Water, Processed Water, Industrial Effluent, Sewage & Waste Water, River & Seawater, Cooling Tower Water, Boiler Water, Swimming Pool Water & Spa	Zinc Magnesium Calcium Manganese Tin Silver Mercury Arsenic Selenium Boron Sulphide	APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3112 B APHA 3114 B APHA 3114 C APHA 4500-B C APHA 4500 S2-F

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	BOD Total Solids Chlorine pH Alkalinity Acidity Hardness (as CaCO <sub>3</sub> ) Chloride COD Total Kjeldahl Nitrogen Ammonical Nitrogen Total Suspended Solids Oil and Grease Colour, HAZEN	APHA 5210 B APHA 4500-OG APHA 2540 B APHA 4500 CI B APHA 4500 H+B APHA 2320 B APHA 2310 B APHA 2340 C APHA 4500-CI_B APHA 5220 B APHA 4500 N org B APHA 4500 NH3 C APHA 2540 D APHA 5520 B In-house Method (LS/W/17-01) based on LOVIBOND METHOD : 1980
	Lead Copper Iron Nickel Cadmium Chromium Sodium Potassium Dissolved Oxygen Sulphate Phosphate /Phosphorus Phenols Mineral oil Turbidity Chromium hexavalent Aluminium Barium Cyanide Fluoride Nitrate Nitrite Cyanide	APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 3111 B APHA 4500-OG APHA 4500 SO4 2- E APHA 4500-P C APHA 5530 C APHA 5520 F Hydrocarbons APHA 2130 B APHA 3500-Cr B APHA 3111D APHA 3111D HACH Test Kits, Model : CYN – 3 Palin Test Kits, Method : AK 179 Palin Test Kits, Method : AK163 Palin Test Kits, Method : AK109 APHA 4500 CN- C APHA 4500 CN- E

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Antimony Arsenic Beryllium Boron Calcium Cobalt Lithium Magnesium Manganase Molybdenum Selenium Silicon Silver Strontium Thallium Vanadium Zinc Lead Copper Iron Nickel Cadmium	APHA 3120 B:21st Edition by ICPOES
	Chromium Sodium Potassium Aluminium Barium	APHA 3120 B:21st Edition by ICPOES

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Preliminary Treatment of Sample for Metal Analysis Nitrate Fluoride Total Dissolved Solids Chromium Trivalent Temperature (IN SITU) Colour (ADMI) Pesticide Residues - Aldrin - Dieldrin - Chlordane - DDT - Heptachlor - Heptachlor Epoxide - Lindane - Methoxychlor - BHC - DDD - DDE - Endosulfan - Endrin	APHA 3030E APHA 3030F APHA 3030G APHA 4500 NO3 -E APHA 4500 F -D APHA 2540 C In-house Method (LS/W/17-02) Based on APHA 3120B & APHA 3500 Cr-B by calculation APHA 2550 B APHA 2120 F APHA 6630B (GC-ECD) APHA 6630D (GC-MS)
	Conductivity Salinity Formaldehyde Anionic Detergent	APHA 2510B APHA 2520B EPA Method 554 APHA 5540C
Ground & Surface Water, Processed Water, Industrial Effluent, Sewage & Waste Water, Aeration Tank Water	Total Suspended Solids/ Mixed Liquor Suspended Solids Fixed & Volatile Solids/ Mixed Liquor Volatile Suspended Solids	APHA 2540D APHA 2540D & APHA 2540E

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palm Oil And Its Products/edible Oils And Related Products	Cloud Point Unsaponifiable Matter Cold Test Refractive Index Phosphorus Peroxide Value Slip Melting Point/Softening Point Saponification Value Ash Apparent Density Flash Point, PMCC DOBI Acid Value(FFA) Cloud Point Colour Ash Insoluble Impurities Iodine Value Moisture and Volatile Matter Peroxide Value Saponification Value Slip Melting Point Soap Content Total Fatty Matter (By Calculation) Fatty Acid Methyl Esters by GC Mineral Oil (Qualitative) FFA Acid Value Moisture & Volatile Matter Moisture & Volatile Matter, Hot Plate Method Moisture & Volatile Matter Fatty Acids, Hot Plate Method Colour Iodine Value	AOCS Cc 6- 25 (2017) MS 817 : Part 7: Section 1: 2001 MS 817 : Part 7: Section 2: 2001 AOCS Ca 6a- 40 (2017) AOCS Cc 11- 53 (2017) AOCS Cc 7-25 (2017) MS 817 : 1989 AOCS Ca 12- 55 (2017) AOCS Cd 8-53:2003 AOCS Cc 3-25:2017 AOCS Cd 3-25:2017 AOCS TI 1a-64:2017 AOCS Tm 1a-64:2017 MS 817 : 1989 AOCS Cc9b-55 (2017) MS 817 : 1989 MS 817:1989 MS 817:1989 MS 817: Part 12: 2004 MS 817:1989 MS 817:1989 MS 817: Part 3: 1998 MS 817: Part 2: 1998 MS 817: Part 11: 2004 MS 817:1989 MS 817:1989 MS 817:1989 MS 817:1989 MS 817:1989 AOAC 945.102 (1995) AOCS Ca 5a-40:2017 AOCS Cd 3d-63:2017 AOCS Te 1a-64:2017 AOCS Ca 2c-25:2017 AOCS Ca 2b-38 2017 AOCS Tb 1a-64:2017 AOCS Cc 13e-92:2017 AOCS Cd 1b-87:2017 AOCS Tg 1a-64:2017 AOCS Cd 1d-92:2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Benzo (a) pyrene Polyaromatic Hydrocarbons - Naphthalene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Benz (a) anthracene - Chrysene - Benzo (b) fluoranthene - Benzo (k) fluoranthene - Benzo (a) pyrene - Dibenz (a,h) anthracene - Benzo (g,h,i) perylene - Indeno (1,2,3-cd) pyrene	AOCS Cd 21-91 (2017) In-house method (LS/F/15-01) based on AOCS Cd 21-91 (2017)
	Acid value (FFA) Ash Insoluble impurities Saponification value Slip melting point Soap content Total fatty matter Fatty acid methyl ester by GC	MPOB Test Method p2.5: 2004 MPOB Test Method p3.6: 2004 MPOB Test Method p2.2: 2004 MPOB Test Method p3.1: 2004 MPOB Test Method p4.2: 2004 MPOB Test Method p2.13: 2004 MPOB Test Method p3.7: 2004 MPOB Test Method p3.4-Part 1: 2004
	Anisidine Value Beta Carotene	AOCS Cd 18-90: 2017 MPOB Test Method p2.4: 2004 MS 817: Part 5: 1998 MS 817: 1989 MPOB Test Method p2.6: 2004
	3-MCPD Fatty Acid Esters 2-MCPD Fatty Acid Esters Glycidol Fatty Acid Esters 3-MCPD Fatty Acid Esters Glycidol Fatty Acid Esters	AOCS Cd 29b-13: 2017 In-house method (LS/F/22-03) Based on AOCS Cd 29c-13: 2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palm Oil And Its Products	Moisture and volatile matter Iodine value Unsaponifiable matter Peroxide value Colour Cloud point Phosphorus Deterioration of Bleachability Index (DOBI) of crude palm oil	MPOB Test Method p2.1 Part 1: 2004 MPOB Test Method p2.1 Part 2: 2004 ISO 662 MPOB Test Method p3.2: 2004 MPOB Test Method p2.7 Part 1: 2004 MPOB Test Method p2.7 Part 2: 2004 MPOB Test Method p2.3: 2004 MPOB Test Method p4.1: 2004 MPOB Test Method p4.3: 2004 MPOB Test Method p2.8 Part 1(b): 2004 MPOB Test Method p2.9: 2004
Edible Oils, Fats And Their Products	Pesticide Residues - Aldrin - Dieldrin - Chlordane - DDT - Heptachlor - Heptachlor Epoxide - Lindane - Methoxychlor - 2, 4 – D - BHC - DDD - DDE - Endosulfan - Endrin	In-house method (LS/F/12-02) based on AOCS Ca 6a – 40 : 2009 (sample Preparation) APHA 6630D (GC – MS) In-house method (LS/F/12-03) based on AOCS Ca 6a - 40: 2009 (sample Preparation) APHA 6630B (GC-ECD)
Rubber And Palm Oil Mill Effluents	BOD COD Total Nitrogen Ammonical Nitrogen Suspended Solids Oil and Grease	DOE (M) Alternate: 2019 DOE (M) Alternate: 2019 DOE (M) Reference: 2019 DOE (M) Reference: 2019 DOE (M) Alternate: 2019 DOE (M) Reference: 2019
Feedstuff (palm Kernels/expeller And Animal Feed)	Ash Crude Fibre Crude Fat Moisture Acid Insoluble Ash Shell & Dirt (Kernels) Shell (Expeller) Free Fatty Acids in Extracted Oil Oil Content in Kernels Moisture & Volatile Matter	MS 3:1982 MS 3:1982 MS 3:1982 MS 3:1982 MS 3:1982 MS 236:1989 MS 607: 1987 MS 236: 1989 MS 236: 1989 MS 236: 1989

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Nuts & Products	Aflatoxin (B1 + B2 + G1 + G2)	AOAC 21st Edition Chapter 49.2.09 Official Method 970.45
General Foodstuffs	Total Carbohydrate (as per calculation)	AOAC, Methods of Analysis for Nutrition Labeling (1993) page106
	Calories (as per calculation)	AOAC, Methods of Analysis for Nutrition Labeling (1993) page106
	Boric Acid & Borate	AOAC 21st Edition 970.33
	Benzoic Acid (in liquid sample)	(Chapter 47.3.07)
Saccharin (in liquid sample)	AOAC 21st Edition 979.08	
Caffeine (in liquid sample)	(Chapter 29.1.14)	
Fat (Saturated, Monounsaturated, Polyunsaturated, Trans)	In-house Method Based On AOCS Ce1c-89 by GC (LS/F/10-05)	
Total Sugar by Gravimetric	In-house Method (LS/F/10-04)	
Copper Reduction Method	Based on Pearson's Chemical Analysis of Food (Chapter Sugar & Preserves)	
Pesticide Residues	In-house method (LS/F/12-01)	
- Aldrin	based on AOAC Official Method 2007.01, GC-MS	
- Dieldrin	In-house method (LS/F/12-04)	
- Chlordane	based on AOAC Official Method 2007.01, GC-ECD	
- DDT		
- Heptachlor		
- Heptachlor Epoxide		
- Lindane		
- Methoxychlor		
- BHC		
- DDD		
- DDE		
- Endosulfan		
- Endrin		
	Nitrogen	In-house method (LS/F/22-02) Based on AOAC 21st Edition Chapter 12.1.07 Official Method 960.52
	Vitamin D	In-house Method (LS/F/22-04) based on AOAC 21st Edition Chapter 50.1.23 Official Method 995.05
General Foodstuffs, Cereal Products	Fat Content	AOAC 21st Edition Chapter 32.1.13 Official method 920.85
	Protein	AOAC 21st Edition Chapter 32.1.22 Official Method 920.87
	Lead	AOAC 21st Edition Chapter 9.2.19 Official Method 972.25

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Arsenic Copper Nickel Zinc Metals (Calcium, Magnesium, Iron, Cadmium & Sodium) Moisture Ash	AOAC 21st Edition Chapter 9.1.01 Official Method 986.15 AOAC 21st Edition Chapter 9.1.07 Official Method 971.20 AOAC 21st Edition Chapter 9.1.07 Official Method 971.20 AOAC 21st Edition Chapter 9.2.38 Official Method 969.32 In-house Method Based On AOAC 21st Edition Chapter 4.8.02 Official Method 968.08 AOAC 21st Edition Chapter 32.1.03 Official Method 925.10 AOAC 21st Edition Chapter 32.1.05 Official Method 923.03
General Foodstuff, Edible Oils, Fats & Their Products	BHA (3-tert-butyl-4-hydroxyanisole) BHT (2,6 – di-tert-butyl-4-hydroxytolouene) TBHQ (Tert-butylhydroquinone) Propyl Gallate	AOCS Official Method Ce 6-86 (2017) AOCS Official Method Ce 6-86 (2017) AOCS Official Method Ce 6-86 (2017) AOCS Official Method Ce 6-86 (2017)
Flour Confectionery, Coffee And Sauce	Vitamin A Vitamin C	In-house Method (LS/HPLC/10-06) Based On Method of Analysis for Nutrition Labeling (1993) Chapter 36 by HPLC In-house Method (LS/HPLC/10-07) Based On Method of Analysis for Nutrition Labeling (1993) Chapter 36 by HPLC
Sauce, Flour Confectionery, Fish & Meat Products And Fruit & Vegetable Products	Benzoic Acid by HPLC Sorbic Acid by HPLC	In-house Method (LS/HPLC/10-08) Based on AOAC Official Method 971.15 & 967.15 By Steam Distillation In-house Method (LS/HPLC/10-09) Based on AOAC Official Method 971.15 & 967.15 By Steam Distillation
Cereal, Flour And Their Products	Protein	AOAC 21st Edition Chapter 32.2.03 Official Method 979.09
Milk, Cream & Milk.products	Fat Content	AOAC 17th Edition AOAC Official Method 920.111 & 905.02 (RoeseGottlieb method)

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<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Palmitic Acid, Stearic Acid Triple Press, Cosmetic Grade, Prepared Wax	Saponification Value Iodine Value Unsaponification Matter Acid Value Moisture & Volatile Matter Moisture & Volatile Matter Fatty Acids, Hot Plate Method	AOCS TI 1a-64(2017) AOCS Cd 1b-87(2017) AOCS Tk 1a-64(2017) AOCS Te 1a-64(2017) AOCS Ca 2c-25(2017) AOCS Tb 1a-64(2017)
Distilled Coconut, Fatty Acid (dcfa), Palmitic Acid, Stearic Acid Triple Press, Cosmetic Grade, Prepared Wax	Saponification Value Iodine Value Unsaponification Matter Acid Value	AOCS TI 1a-64 (2017) AOCS Cd 1b-87(2017) AOCS Tk 1a-64(2017) AOCS Te 1a-64(2017)
Glycerin	Identification, Test B Fatty Acid & Ester Residue on Ignition Specific Gravity Water Content Chloride Sulphate Limit of Chlorinated Compounds Organic impurities- related compounds	*USP 43
Fuel Oil/mineral Oil/ Edible Oil	Calorific Value by Oxygen Bomb Calorimeter	PARR Operating Instructions No. 204 M
Food (butter & Margarine)	Salt Content Acid Value Fat Moisture	AOAC 21st Edition Chapter 33.6.06 Official Method 960.29 AOAC 21st Edition Chapter 33.6.08, Official Method 969.17 AOAC 21st Edition Chapter 33.6.04, Official Method 938.06 AOAC 21st Edition Chapter 33.6.03, Official Method 920.116
Food (cocoa Bean And Its Product)	Moisture Ash Alkalinity pH	AOAC 21st Edition Chapter 31.1.02 Official Method 931.04 AOAC 21st Edition Chapter 31.1.04 Official Method 972.15 AOAC 21st Edition Chapter 31.1.05 Official Method 975.11 AOAC 21st Edition Chapter 31.1.07 Official Method 970.21

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
General Foodstuffs	Tin Antimony Mercury Total Dietary Fibre Cholesterol	AOAC 21st Edition Chapter 9.2.35 Official Method 985.16 In-house Method (LS/F/11-11) Based On AOAC 21st Edition Chapter 4.8.02 Official Method 968.08 ICPOES AOAC 21st Edition Chapter 9.2.22 Official Method 971.21 In-house method (LS/F/22-01) Based on AOAC 21st Edition Chapter 45.4.07 Official Method 985.29 AOAC 21st Edition Chapter 45.4.10 Official Method 994.10
	Cholesterol Sulphur Dioxide	AOAC 21st Edition Chapter 45.4.06 Official Method 976.26 In-house Method (LS/F/11-10) Based on Pearson's Chemical Analysis of Food (Chapter Additives and Contaminants) by using Iodine
	Potassium Reducing Sugar by Gravimetric Copper Reduction Method Added Sugar (as per calculation) Sodium Chloride Sudan Dyes Propionic Acid Nitrate and Nitrite	In-house method (LS/F/17-06) Based on AOAC 21st Edition Official Method 975.03 In-house method (LS/F/17-02) Based on Pearson's Chemical Analysis of Food (Chapter Sugar & Preserves) In-house method (LS/F/17-02) Based on Pearson's Chemical Analysis of Food (Chapter Sugar & Preserves) GB 18186-2000 GB/T 19681- 2005 GB/T 23382- 2009 MS 2509 : 2015

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Traditional Chinese Medicine, Medicine And Pharmaceutical Products	Arsenic Cadmium Lead Copper Zinc Mercury	In-house method (LS/F/17-03) Based on BP 2013 Ph. Eur. Method 2.4.27 Page 13-15 & APHA 3114B In-house method (LS/F/17-04) Based on BP 2013 Ph. Eur. Method 2.4.27 Page 13-15 & APHA 3120B In-house method (LS/F/17-05) Based on BP 2013 Ph. Eur. Method 2.4.27 Page 13-15 & APHA 3112B
Soap And Soap Products	Moisture and Volatile Matter, Air Oven Method Alcohol-Soluble and Alcohol-Insoluble Matter Water- Insoluble Matter Total Alkalinity of Alcohol-Insoluble Matter Free Acid or Free Alkali	AOCS Da 2a-48: 2017 AOCS Da 3-48: 2017 AOCS Da 6-48: 2017 AOCS Da 7-48: 2017 AOCS Da 4a-48: 2017
Sediments, Sludge & Soils	Cadmium Chromium Lead	USEPA 3050 B
Processed Water, Industrial Effluent, Sewage & Waste Water, River Water	COD (Closed-Reflux)	APHA 5220 C
Fertilizers And Liming Materials	Total Nitrogen Potassium (as K <sub>2</sub> O) Total Phosphorus (as P <sub>2</sub> O <sub>5</sub> ) Magnesium (as MgO) Moisture	MS 417:Part 3:2020 MS 417:Part 5:2020 MS 417:Part 4:2020 MS 417:Part 6:2020 MS 417:Part 2:1994

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Drinking Water, %%% Potable And Domestic, Ground & Surface Water, Mineral Water, Ro Water, Processed Water, Industrial Effluent, Sewage & Waste Water, River & Seawater, Cooling Tower Water, Boiler Water, Swimming Pool Water & Spa	Zinc	APHA 3111 B
	Magnesium	APHA 3111 B
	Calcium	APHA 3111 B
	Manganese	APHA 3111 B
	Tin	APHA 3111 B
	Silver	APHA 3111 B
	Mercury	APHA 3112 B
	Arsenic	APHA 3114 B
	Selenium	APHA 3114 C
	Boron	APHA 4500-B C
	Sulphide	APHA 4500 S2-F
	BOD	APHA 5210 B
	Total Solids	APHA 4500-OG
	Chlorine	APHA 2540 B
	pH	APHA 4500 CI B
	Alkalinity	APHA 4500 H+B
	Acidity	APHA 2320 B
	Hardness (as CaCO3)	APHA 2310 B
	Chloride	APHA 2340 C
	COD	APHA 4500-CI_B
	Total Kjeldahl Nitrogen	APHA 5220 B
	Ammonical Nitrogen	APHA 4500 N org B
	Total Suspended Solids	APHA 4500 NH3 C
	Oil and Grease	APHA 2540 D
	Colour, HAZEN	APHA 5520 B
		In-house Method (LS/W/17-01) based on LOVIBOND METHOD : 1980

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	Lead	APHA 3111 B
	Copper	APHA 3111 B
	Iron	APHA 3111 B
	Nickel	APHA 3111 B
	Cadmium	APHA 3111 B
	Chromium	APHA 3111 B
	Sodium	APHA 3111 B
	Potassium	APHA 3111 B
	Dissolved Oxygen	APHA 4500-OG
	Sulphate	APHA 4500 SO4 2- E
	Phosphate /Phosphorus	APHA 4500-P C
	Phenols	APHA 5530 C
	Mineral oil	APHA 5520 F Hydrocarbons
	Turbidity	APHA 2130 B
	Chromium hexavalent	APHA 3500-Cr B
	Aluminium	APHA 3111D
	Barium	APHA 3111D
	Cyanide	HACH Test Kits, Model : CYN – 3
	Fluoride	Palin Test Kits, Method : AK 179
	Nitrate	Palin Test Kits, Method : AK163
	Nitrite	Palin Test Kits, Method : AK109
	Cyanide	APHA 4500 CN- C APHA 4500 CN- E
	Antimony	APHA 3120 B:21st Edition by ICPOES
	Arsenic	
	Beryllium	
	Boron	
	Calcium	
	Cobalt	
	Lithium	
	Magnesium	
	Manganase	
	Molybdenum	
	Selenium	
	Silicon	
	Silver	
	Strontium	
	Thallium	
	Vanadium	
	Zinc	
	Lead	
	Copper	
	Iron	
	Nickel	
	Cadmium	

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Chromium Sodium Potassium Aluminium Barium	APHA 3120 B:21st Edition by ICPOES
	Preliminary Treatment of Sample for Metal Analysis Nitrate Fluoride Total Dissolved Solids Chromium Trivalent Temperature (IN SITU) Colour (ADMI) Pesticide Residues - Aldrin - Dieldrin - Chlordane - DDT - Heptachlor - Heptachlor Epoxide - Lindane - Methoxychlor - BHC - DDD - DDE - Endosulfan - Endrin	APHA 3030E APHA 3030F APHA 3030G APHA 4500 NO3 -E APHA 4500 F -D APHA 2540 C In-house Method (LS/W/17-02) Based on APHA 3120B & APHA 3500 Cr-B by calculation APHA 2550 B APHA 2120 F APHA 6630B (GC-ECD) APHA 6630D (GC-MS)
	Conductivity Salinity Formaldehyde Anionic Detergent	APHA 2510B APHA 2520B EPA Method 554 APHA 5540C
Ground & Surface Water, Processed Water, Industrial Effluent, Sewage & Waste Water, Aeration Tank Water	Total Suspended Solids/ Mixed Liquor Suspended Solids Fixed & Volatile Solids/ Mixed Liquor Volatile Suspended Solids	APHA 2540D APHA 2540D & APHA 2540E

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palm Oil And Its Products/edible Oils And Related Products	Cloud Point Unsaponifiable Matter Cold Test Refractive Index Phosphorus Peroxide Value Slip Melting Point/Softening Point Saponification Value Ash Apparent Density Flash Point, PMCC DOBI Acid Value(FFA) Cloud Point Colour Ash Insoluble Impurities Iodine Value Moisture and Volatile Matter Peroxide Value Saponification Value Slip Melting Point Soap Content Total Fatty Matter (By Calculation) Fatty Acid Methyl Esters by GC Mineral Oil (Qualitative) FFA Acid Value Moisture & Volatile Matter Moisture & Volatile Matter, Hot Plate Method Moisture & Volatile Matter Fatty Acids, Hot Plate Method Colour Iodine Value	AOCS Cc 6- 25 (2017) MS 817 : Part 7: Section 1: 2001 MS 817 : Part 7: Section 2: 2001 AOCS Ca 6a- 40 (2017) AOCS Cc 11- 53 (2017) AOCS Cc 7-25 (2017) MS 817 : 1989 AOCS Ca 12- 55 (2017) AOCS Cd 8-53:2003 AOCS Cc 3-25:2017 AOCS Cd 3-25:2017 AOCS TI 1a-64:2017 AOCS Tm 1a-64:2017 MS 817 : 1989 AOCS Cc9b-55 (2017) MS 817 : 1989 MS 817:1989 MS 817:1989 MS 817: Part 12: 2004 MS 817:1989 MS 817:1989 MS 817: Part 3: 1998 MS 817: Part 2: 1998 MS 817: Part 11: 2004 MS 817:1989 MS 817:1989 MS 817:1989 MS 817:1989 MS 817:1989 AOAC 945.102 (1995) AOCS Ca 5a-40:2017 AOCS Cd 3d-63:2017 AOCS Te 1a-64:2017 AOCS Ca 2c-25:2017 AOCS Ca 2b-38 2017 AOCS Tb 1a-64:2017 AOCS Cc 13e-92:2017 AOCS Cd 1b-87:2017 AOCS Tg 1a-64:2017 AOCS Cd 1d-92:2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Benzo (a) pyrene Polyaromatic Hydrocarbons - Naphthalene - Acenaphthene - Fluorene - Phenanthrene - Anthracene - Fluoranthene - Pyrene - Benz (a) anthracene - Chrysene - Benzo (b) fluoranthene - Benzo (k) fluoranthene - Benzo (a) pyrene - Dibenz (a,h) anthracene - Benzo (g,h,i) perylene - Indeno (1,2,3-cd) pyrene	AOCS Cd 21-91 (2017) In-house method (LS/F/15-01) based on AOCS Cd 21-91 (2017)
	Acid value (FFA) Ash Insoluble impurities Saponification value Slip melting point Soap content Total fatty matter Fatty acid methyl ester by GC	MPOB Test Method p2.5: 2004 MPOB Test Method p3.6: 2004 MPOB Test Method p2.2: 2004 MPOB Test Method p3.1: 2004 MPOB Test Method p4.2: 2004 MPOB Test Method p2.13: 2004 MPOB Test Method p3.7: 2004 MPOB Test Method p3.4-Part 1: 2004
	Anisidine Value Beta Carotene	AOCS Cd 18-90: 2017 MPOB Test Method p2.4: 2004 MS 817: Part 5: 1998 MS 817: 1989 MPOB Test Method p2.6: 2004
	3-MCPD Fatty Acid Esters 2-MCPD Fatty Acid Esters Glycidol Fatty Acid Esters 3-MCPD Fatty Acid Esters Glycidol Fatty Acid Esters	AOCS Cd 29b-13: 2017 In-house method (LS/F/22-03) Based on AOCS Cd 29c-13: 2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palm Oil And Its Products	Moisture and volatile matter Iodine value Unsaponifiable matter Peroxide value Colour Cloud point Phosphorus Deterioration of Bleachability Index (DOBI) of crude palm oil	MPOB Test Method p2.1 Part 1: 2004 MPOB Test Method p2.1 Part 2: 2004 ISO 662 MPOB Test Method p3.2: 2004 MPOB Test Method p2.7 Part 1: 2004 MPOB Test Method p2.7 Part 2: 2004 MPOB Test Method p2.3: 2004 MPOB Test Method p4.1: 2004 MPOB Test Method p4.3: 2004 MPOB Test Method p2.8 Part 1(b): 2004 MPOB Test Method p2.9: 2004
Edible Oils, Fats And Their Products	Pesticide Residues - Aldrin - Dieldrin - Chlordane - DDT - Heptachlor - Heptachlor Epoxide - Lindane - Methoxychlor - 2, 4 – D - BHC - DDD - DDE - Endosulfan - Endrin	In-house method (LS/F/12-02) based on AOCS Ca 6a – 40 : 2009 (sample Preparation) APHA 6630D (GC – MS) In-house method (LS/F/12-03) based on AOCS Ca 6a - 40: 2009 (sample Preparation) APHA 6630B (GC-ECD)
Rubber And Palm Oil Mill Effluents	BOD COD Total Nitrogen Ammonical Nitrogen Suspended Solids Oil and Grease	DOE (M) Alternate: 2019 DOE (M) Alternate: 2019 DOE (M) Reference: 2019 DOE (M) Reference: 2019 DOE (M) Alternate: 2019 DOE (M) Reference: 2019
Feedstuff (palm Kernels/expeller And Animal Feed)	Ash Crude Fibre Crude Fat Moisture Acid Insoluble Ash Shell & Dirt (Kernels) Shell (Expeller) Free Fatty Acids in Extracted Oil Oil Content in Kernels Moisture & Volatile Matter	MS 3:1982 MS 3:1982 MS 3:1982 MS 3:1982 MS 3:1982 MS 236:1989 MS 607: 1987 MS 236: 1989 MS 236: 1989 MS 236: 1989

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Nuts & Products	Aflatoxin (B1 + B2 + G1 + G2)	AOAC 21st Edition Chapter 49.2.09 Official Method 970.45
General Foodstuffs	Total Carbohydrate (as per calculation)	AOAC, Methods of Analysis for Nutrition Labeling (1993) page106
	Calories (as per calculation)	AOAC, Methods of Analysis for Nutrition Labeling (1993) page106
	Boric Acid & Borate	AOAC 21st Edition 970.33
	Benzoic Acid (in liquid sample)	(Chapter 47.3.07)
Saccharin (in liquid sample)	AOAC 21st Edition 979.08	
Caffeine (in liquid sample)	(Chapter 29.1.14)	
Fat (Saturated, Monounsaturated, Polyunsaturated, Trans)	In-house Method Based On AOCS Ce1c-89 by GC (LS/F/10-05)	
Total Sugar by Gravimetric	In-house Method (LS/F/10-04)	
Copper Reduction Method	Based on Pearson's Chemical Analysis of Food (Chapter Sugar & Preserves)	
Pesticide Residues	In-house method (LS/F/12-01)	
- Aldrin	based on AOAC Official Method 2007.01, GC-MS	
- Dieldrin	In-house method (LS/F/12-04)	
- Chlordane	based on AOAC Official Method 2007.01, GC-ECD	
- DDT		
- Heptachlor		
- Heptachlor Epoxide		
- Lindane		
- Methoxychlor		
- BHC		
- DDD		
- DDE		
- Endosulfan		
- Endrin		
	Nitrogen	In-house method (LS/F/22-02) Based on AOAC 21st Edition Chapter 12.1.07 Official Method 960.52
	Vitamin D	In-house Method (LS/F/22-04) based on AOAC 21st Edition Chapter 50.1.23 Official Method 995.05
General Foodstuffs, Cereal Products	Fat Content	AOAC 21st Edition Chapter 32.1.13 Official method 920.85
	Protein	AOAC 21st Edition Chapter 32.1.22 Official Method 920.87
	Lead	AOAC 21st Edition Chapter 9.2.19 Official Method 972.25

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Arsenic Copper Nickel Zinc Metals (Calcium, Magnesium, Iron, Cadmium & Sodium) Moisture Ash	AOAC 21st Edition Chapter 9.1.01 Official Method 986.15 AOAC 21st Edition Chapter 9.1.07 Official Method 971.20 AOAC 21st Edition Chapter 9.1.07 Official Method 971.20 AOAC 21st Edition Chapter 9.2.38 Official Method 969.32 In-house Method Based On AOAC 21st Edition Chapter 4.8.02 Official Method 968.08 AOAC 21st Edition Chapter 32.1.03 Official Method 925.10 AOAC 21st Edition Chapter 32.1.05 Official Method 923.03
General Foodstuff, Edible Oils, Fats & Their Products	BHA (3-tert-butyl-4-hydroxyanisole) BHT (2,6 – di-tert-butyl-4-hydroxytolouene) TBHQ (Tert-butylhydroquinone) Propyl Gallate	AOCS Official Method Ce 6-86 (2017) AOCS Official Method Ce 6-86 (2017) AOCS Official Method Ce 6-86 (2017) AOCS Official Method Ce 6-86 (2017)
Flour Confectionery, Coffee And Sauce	Vitamin A Vitamin C	In-house Method (LS/HPLC/10-06) Based On Method of Analysis for Nutrition Labeling (1993) Chapter 36 by HPLC In-house Method (LS/HPLC/10-07) Based On Method of Analysis for Nutrition Labeling (1993) Chapter 36 by HPLC
Sauce, Flour Confectionery, Fish & Meat Products And Fruit & Vegetable Products	Benzoic Acid by HPLC Sorbic Acid by HPLC	In-house Method (LS/HPLC/10-08) Based on AOAC Official Method 971.15 & 967.15 By Steam Distillation In-house Method (LS/HPLC/10-09) Based on AOAC Official Method 971.15 & 967.15 By Steam Distillation
Cereal, Flour And Their Products	Protein	AOAC 21st Edition Chapter 32.2.03 Official Method 979.09
Milk, Cream & Milk.products	Fat Content	AOAC 17th Edition AOAC Official Method 920.111 & 905.02 (RoeseGottlieb method)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palmitic Acid, Stearic Acid Triple Press, Cosmetic Grade, Prepared Wax	Saponification Value Iodine Value Unsaponification Matter Acid Value Moisture & Volatile Matter Moisture & Volatile Matter Fatty Acids, Hot Plate Method	AOCS TI 1a-64(2017) AOCS Cd 1b-87(2017) AOCS Tk 1a-64(2017) AOCS Te 1a-64(2017) AOCS Ca 2c-25(2017) AOCS Tb 1a-64(2017)
Distilled Coconut, Fatty Acid (dcfa), Palmitic Acid, Stearic Acid Triple Press, Cosmetic Grade, Prepared Wax	Saponification Value Iodine Value Unsaponification Matter Acid Value	AOCS TI 1a-64 (2017) AOCS Cd 1b-87(2017) AOCS Tk 1a-64(2017) AOCS Te 1a-64(2017)
Glycerin	Identification, Test B Fatty Acid & Ester Residue on Ignition Specific Gravity Water Content Chloride Sulphate Limit of Chlorinated Compounds Organic impurities- related compounds	*USP 43
Fuel Oil/mineral Oil/ Edible Oil	Calorific Value by Oxygen Bomb Calorimeter	PARR Operating Instructions No. 204 M
Food (butter & Margarine)	Salt Content Acid Value Fat Moisture	AOAC 21st Edition Chapter 33.6.06 Official Method 960.29 AOAC 21st Edition Chapter 33.6.08, Official Method 969.17 AOAC 21st Edition Chapter 33.6.04, Official Method 938.06 AOAC 21st Edition Chapter 33.6.03, Official Method 920.116
Food (cocoa Bean And Its Product)	Moisture Ash Alkalinity pH	AOAC 21st Edition Chapter 31.1.02 Official Method 931.04 AOAC 21st Edition Chapter 31.1.04 Official Method 972.15 AOAC 21st Edition Chapter 31.1.05 Official Method 975.11 AOAC 21st Edition Chapter 31.1.07 Official Method 970.21

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
General Foodstuffs	Tin Antimony Mercury Total Dietary Fibre Cholesterol	AOAC 21st Edition Chapter 9.2.35 Official Method 985.16 In-house Method (LS/F/11-11) Based On AOAC 21st Edition Chapter 4.8.02 Official Method 968.08 ICPOES AOAC 21st Edition Chapter 9.2.22 Official Method 971.21 In-house method (LS/F/22-01) Based on AOAC 21st Edition Chapter 45.4.07 Official Method 985.29 AOAC 21st Edition Chapter 45.4.10 Official Method 994.10
	Cholesterol Sulphur Dioxide	AOAC 21st Edition Chapter 45.4.06 Official Method 976.26 In-house Method (LS/F/11-10) Based on Pearson's Chemical Analysis of Food (Chapter Additives and Contaminants) by using Iodine
	Potassium Reducing Sugar by Gravimetric Copper Reduction Method Added Sugar (as per calculation) Sodium Chloride Sudan Dyes Propionic Acid Nitrate and Nitrite	In-house method (LS/F/17-06) Based on AOAC 21st Edition Official Method 975.03 In-house method (LS/F/17-02) Based on Pearson's Chemical Analysis of Food (Chapter Sugar & Preserves) In-house method (LS/F/17-02) Based on Pearson's Chemical Analysis of Food (Chapter Sugar & Preserves) GB 18186-2000 GB/T 19681- 2005 GB/T 23382- 2009 MS 2509 : 2015

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Traditional Chinese Medicine, Medicine And Pharmaceutical Products	Arsenic Cadmium Lead Copper Zinc Mercury	In-house method (LS/F/17-03) Based on BP 2013 Ph. Eur. Method 2.4.27 Page 13-15 & APHA 3114B In-house method (LS/F/17-04) Based on BP 2013 Ph. Eur. Method 2.4.27 Page 13-15 & APHA 3120B In-house method (LS/F/17-05) Based on BP 2013 Ph. Eur. Method 2.4.27 Page 13-15 & APHA 3112B
Soap And Soap Products	Moisture and Volatile Matter, Air Oven Method Alcohol-Soluble and Alcohol Insoluble Matter Water- Insoluble Matter Total Alkalinity of Alcohol-Insoluble Matter Free Acid or Free Alkali	AOCS Da 2a-48: 2017 AOCS Da 3-48: 2017 AOCS Da 6-48: 2017 AOCS Da 7-48: 2017 AOCS Da 4a-48: 2017
Sediments, Sludge & Soils	Cadmium Chromium Lead	USEPA 3050 B
Processed Water, Industrial Effluent, Sewage & Waste Water, River Water	COD (Closed-Reflux)	APHA 5220 C
Fertilizers And Liming Materials	Total Nitrogen Potassium (as K <sub>2</sub> O) Total Phosphorus (as P <sub>2</sub> O <sub>5</sub> ) Magnesium (as MgO) Moisture	MS 417:Part 3:2020 MS 417:Part 5:2020 MS 417:Part 4:2020 MS 417:Part 6:2020 MS 417:Part 2:1994

## SCOPE OF TESTING : CHEMICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Ambient Air Monitoring	Determination of Suspended Particular Matter – Total Suspended Particulate Matter (TSP) – High Volume Sampler Gravimetric Method Determination of Suspended Particular Matter – PM10 – High Volume Sampler with Size Selective Inlet – Gravimetric Method	AS/NZS 3580.9.3.2003 Method 9.3 AS/NZS 3580.9.6.2003 Method 9.6
Chimney/stack/ducting Emissions	Determination of Concentration and Mass Flow of Particulate Matter in Flue Gas for Stationary Source Emissions	MS 1596:2003
Chimney / Stack / Ducting Emissions	Determination of dark smoke emissions from chimney using Ringelmann Smoke Chart	US Bureau of Mines, IC 8333, 1967

## SCOPE OF TESTING : CHEMICAL (AIR MONITORING)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Ambient Air Monitoring	Determination of Suspended Particular Matter – Total Suspended Particulate Matter (TSP) – High Volume Sampler Gravimetric Method Determination of Suspended Particular Matter – PM10 – High Volume Sampler with Size Selective Inlet – Gravimetric Method	AS/NZS 3580.9.3.2003 Method 9.3 AS/NZS 3580.9.6.2003 Method 9.6
Chimney/stack/ducting Emissions	Determination of Concentration and Mass Flow of Particulate Matter in Flue Gas for Stationary Source Emissions	MS 1596:2003
Chimney / Stack / Ducting Emissions	Determination of dark smoke emissions from chimney using Ringelmann Smoke Chart	US Bureau of Mines, IC 8333, 1967

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**SCOPE OF TESTING : MICROBIOLOGICAL**

<b>Material / Product Tested</b>	<b>Type Of Test / Properties Measured / Range Of Measurement</b>	<b>Standard Test Methods / Equipment / Techniques</b>
Food And Feed	Total Plate Count / Total Aerobic Count Coliform and Escherichia coli Count Total Mould and Yeast Count Salmonella Detection Staphylococcus aureus Count Fecal Coliforms Count Bacillus cereus Count Vibrio cholerae Detection, Vibrio parahaemolyticus Count Coliform and Escherichia coli Count Aerobic Plate Count/Total Plate Count Total Mould and Yeast Count Listeria monocytogenes Detection and Enumeration	AOAC 21st Edition Chapter 17 AOAC Official Method 966.23 AOAC 21st Edition Chapter 17 AOAC Official Method 966.24 In-house Method (LS/M/21-01) Based on AOAC 21st Edition Chapter 17 AOAC Official Method 940.37E FDA / BAM 8th Edition, Chapter 5 FDA / BAM 8th Edition, Chapter 12 FDA / BAM 8th Edition, Chapter 4 FDA/BAM 8th Edition Chapter 14 FDA/BAM 8th Edition Chapter 9 FDA/BAM 8th Edition Chapter 4 FDA / BAM 8 th Edition Chapter 3 FDA / BAM 8 th Edition Chapter 18 FDA/BAM 8th Edition Chapter 10
	Lipolytic Organisms Count	Sri Lanka Standard 516: Part 11: 1999
Milk And Dairy Products	Listeria monocytogenes Detection	AOAC 21st Edition Chapter 17.10.01 AOAC Official Method 993.12
Domestic, Industrial Water & Wastewater/effluent	Total Coliform Count Faecal Coliform Count	APHA 9221 B APHA 9221 E
Water	Total Plate Count Escherichia coli Count Pseudomonas aeruginosa Count Sulfate- reducing bacteria Detection Fecal Streptococcus & Enterococcus group Count	APHA 9215 B APHA 9221 F APHA 9213 F APHA 9240 D APHA 9230 B
Food, Feed And Pharmaceutical	Clostridium perfringens Count	FDA/BAM 8th Edition Chapter 16
Pharmaceutical And Cosmetic Products Including Traditional Medicines	Total Plate Count / Total Aerobic Microbial Count Total Yeast and Mould Count Escherichia coli Bile Tolerant- Gram Negative Bacteria Detection and Enumeration Staphylococcus aureus Salmonella	BP 2022 (Appendix XVI B) BP 2022 (Appendix XVI B) BP 2022 (Appendix XVI B & F) BP 2022 (Appendix XVI B & F) BP 2022 (Appendix XVI B) BP 2022 (Appendix XVI B & F)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Site Monitoring - Air Sampling	Total Plate Count Yeast & Mould	In-house Method (LS/M/23-02) based on APHA Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 5 th Edition – Sedimentation
Site Monitoring - Swab	Total Plate Count Yeast & Mould Coliform Escherichia coli Staphylococcus aureus	In-house Method (LS/M/23-03) based on APHA Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 5 th Edition – Surface Contact Method
Food And Feedstuffs	Enterobacteriaceae Shigella Detection	ISO 21528-2:2017 FDA / BAM 8th Edition, Chapter 6

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