


# Schedule

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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>	Edtech Associates Sdn Bhd 32, Jalan Kajang, 10150 Georgetown, Pulau Pinang , 10150, PULAU PINANG MALAYSIA
	
<b>ACCREDITED SINCE :</b>	01 SEPTEMBER 2024
<b>FIELD(S) OF TESTING:</b>	CHEMICAL MICROBIOLOGICAL

<p>This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).</p> <p>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).</p>	
<b>CENTRAL LOCATION:</b>	Edtech Associates Sdn Bhd 32, Jalan Kajang, 10150 Georgetown, Pulau Pinang , 10150, Pulau Pinang
<b>FIELD(S) OF TESTING :</b>	CHEMICAL, MICROBIOLOGICAL

## SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Environmental Monitoring</b> Rubber & Palm Oil Mill Effluent	BOD <sub>3</sub> 30°C COD Total Nitrogen Ammoniacal Nitrogen Suspended Solids Oil and Grease	DOE (Malaysia) Reference Method
<b>Workplace Environment And Hazards</b> Air	Total Suspended Particulate	ASTM D 4096 (1994)

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<b>Water</b> Potable And Domestic/ Purified/recreational/ Industrial Water	BOD <sub>5</sub> 20°C COD Ammoniacal Nitrogen Total Solids Oil and Grease Total Dissolved Solids Suspended Solids	APHA 5210.B (2005) (21 <sup>st</sup> edition) APHA 5220B (2005) (21 <sup>st</sup> edition) / ASTM D 1252.88 APHA 5220C (2005) (21 <sup>st</sup> edition) APHA 4500-NH3.C (2005) (21 <sup>st</sup> edition) APHA 2540.B (2005) (21 <sup>st</sup> edition) APHA 5520.B & D (2005) (21 <sup>st</sup> edition) APHA 2540.C (2005) (21 <sup>st</sup> edition) APHA 2540.D (2005) (21 <sup>st</sup> edition)
	Mercury Arsenic	APHA 3112.B (2005) (21 <sup>st</sup> edition) APHA 3114.B (2005) (21 <sup>st</sup> edition)
	Chromium (Cr VI)	APHA 3500-Cr.B/
	Total Chromium	APHA 3111B (2005) (21 <sup>st</sup> edition)
	Aluminium	APHA 3111.D (2005) (21 <sup>st</sup> edition)
	Tin	APHA 3111.B (2005) (21 <sup>st</sup> edition)
	Iron Cadmium Calcium Magnesium Copper Manganese Nickel Zinc Sodium Potassium Lead Antimony	APHA 3111.B (2005) (21 <sup>st</sup> edition)
	Phenol	APHA 5530.D (2005) (21 <sup>st</sup> edition)/ DOE (UK) (1972)
	Chlorine	APHA 4500-Cl2B / APHA 4500-Cl2G (2005) (21 <sup>st</sup> edition)
	pH	APHA 4500-H+.B (2005)(21 <sup>st</sup> edition)

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	Boron	APHA 4500-B.C (2005) (21 <sup>st</sup> edition)
	Calcium	APHA 3500-CaB (2005)(21 <sup>st</sup> edition) / ASTM 511-88
	Magnesium	APHA 3500-Mg2.B (2005) (21 <sup>st</sup> edition) / ASTM 511-88
	Sulphide	APHA 4500-S-.D/F (2005)(21 <sup>st</sup> edition)
	Alkalinity	APHA 2320.B (2005) (21 <sup>st</sup> edition)
	Colour	APHA 2120.B (2005) (21 <sup>st</sup> edition)
	Turbidity	APHA 2130.B (2005) (21 <sup>st</sup> edition)
	Cyanide	APHA 4500-CN.D/E (2005) (21 <sup>st</sup> edition)
<b>Water Analysis</b> Water	Total Organic Carbon	In-house Method Edta 1.17 based on ASTM D 5173-91 using Mettler Toledo TOC Instrument
<b>Water Analysis</b> Potable And Domestic / Purified/recreational/ Industrial Water	Dissolved Oxygen Hardness (as CaCO <sub>3</sub> )	APHA 4500-O.C/D (2005) (21 <sup>st</sup> edition) APHA 2340.B/C (2005) (21 <sup>st</sup> edition) / ASTM D1126-90
	Silica Phosphorous	APHA 4500-SiO2.C (2005) (21 <sup>st</sup> edition) APHA 4500.PC/APHA 4110 (2005) (21 <sup>st</sup> edition)
	Nitrate	ASTM D 992-71/APHA 4110 / APHA 4500 NO3E (2005) (21 <sup>st</sup> edition)
	Sulphate	ASTM D 516/APHA 4500.SO4E / APHA 4110 (2005) (21 <sup>st</sup> edition)
	Chloride	ASTM 512-A-90/APHA 4500 CL-.C/ APHA 4110 (2005) (21 <sup>st</sup> edition)
	Flouride	APHA 4500.F.D/APHA 4110 (2005) (21 <sup>st</sup> edition)
	Nitrite	APHA 4110 (2005) (21 <sup>st</sup> edition)
	Bromide	APHA 4110 (2005) (21 <sup>st</sup> edition)
	Temperature	APHA 2550 B (2005) (21 <sup>st</sup> edition)
	Anionic Detergent (as MBAS)	APHA 5540 C (2005) (21 <sup>st</sup> edition)
	Color (ADMI) Formaldehyde Silver Barium Selenium	US EPA Method 110.1 US EPA Method 8315 A APHA 3111B (2005) (21 <sup>st</sup> edition) APHA 3111D (2005) (21 <sup>st</sup> edition) APHA 3114B (2005) (21 <sup>st</sup> edition)

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<b>Agricultural Products And Materials</b> Palm Oil & Other Edible Oils And Their Products	Acidity	MPOB p2.5 (2004)
	Moisture + VolatileMatter	MPOB p2.1 Part 1 (2004)
	Iodine Value	MPOB p3.2 (2004)
	Saponification Value	MPOB p3.1 (2004)
	Peroxide Value	MPOB p2.3 (2004)
	Impurities	MPOB p2.2 (2004)
	Cloud Point	MPOB p4.3 (2004)
	Slip Melting Point	MPOB p4.2 (2004)
	Refractive Index	MPOB p4.4 (2004)
	Unsaponifiable Matter	MPOB p2.7 (2004)
	Mass Per Volume	MPOB p4.5 (2004)
	Fatty Acid Composition	MPOB p3.4 & 3.5 (2004)
	Titre Test	MPOB p4.6 (2004)
	Cold Test	MPOB p4.7 (2004)
	Free Fatty Acid	AOCS Ca 5a-40 (1997)
	Acid Value	AOCS Cd 3d-63 (2003)
	Moisture + Volatile Matter	AOCS Ca 2c-25 (1997) AOCS Ca 2d-25 (1997) AOCS Ca 2e-84 (1997)
	Colour (Lovibond)	AOCS Cc 13b-45 (2000) AOCS Cc 13a-43 (2000)
	Iodine Value	AOCS Cd 1b-87 (1997) AOCS Cd 1d-92 (1997)
	Saponification Value	AOCS Cd 3-25(2003)
Peroxide Value	AOCS Cd 8-53 (2003)	
Insoluble Impurities	AOCS Ca 3a-46 (1997)	
Cloud Point	AOCS Cc 6-25 (1997)	
Slip Melting Point	AOCS Cc 3-25(1997)	
Refractive Index	AOCS Cc 7-25 (2002)	
Unsaponifiable Matter	AOCS Ca 6a-40 (1997)	
Specific Gravity	AOCS Cc 10a-25 (1995)	
Fatty Acid Composition	IUPAC 5th Edition IID.19 /IID.25	
Fat Content or Total Fatty Matter	MPOB p3.7 (2004)	
Total Saponifiable Matter	MPOB p3.8 (2004)	
Titre Test	AOCS Cc 12-59 (1997)	
Flash Point	AOCS Cc 9b-55 (1997)	
Cold Test	AOCS Cc 11-53 (2003)	
TBHQ/BHA/BHT	AOAC 983.15 (2002) AOCS Ce 6-86 (1997)	
<b>Agricultural Products And Materials</b> Industrial Oils Including Industrial Palm Oil And Other Products	Free Fatty Acid	AOCS Te 1a-64 (1997)
	Iodine Value	AOCS Tg 1-64 (1997)
	Saponification Value	AOCS Ti 1a-64 (2003)
	Titre Test	AOCS Tr 1a-64 (1997)
	Unsaponifiable Matter	AOCS Tk 1a-64 (1997)
<b>Agricultural Products And Materials</b> Food/ Animal Feeds Oil Seeds And Their By-products	Sulphur Dioxide	AOAC 990.28 (2005) AOAC 892.02 (2005)
	Benzoic Acid	AOAC 963.19 (2005) AOAC 994.11 (2005)

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	Boric Acid	AOAC 970.34 (2005) AOAC 959.09 (2005) AOAC 969.26 (2005)
	Moisture Nitrogen Fat Free Fatty Acid Fibre Ash Acid Insoluble Ash	MS ISO 6496 (2003) MS ISO 5983 (2000) MS 1416 (1997) MS 3 (1982) MS 1414 (2003) MS ISO 5984 (2003) MS ISO 5985 (2003)
	Mineral Elements: Calcium Cobalt Copper Iodine Iron Magnesium Manganese	MS 3 (1982) Section 12.1
	Molybdenum	MS 3 (1982) Section 12.4
	Phosphorous	MS 3 (1982) Section 12.5
	Selenium	MS 3 (1982) Section 12.6
	Sodium	MS 3 (1982) Section 12.2
	Zinc	MS 3 (1982) Section 12.1
	Calorific Value	MS 3 (1982)
	Malachite Green + Leucomalachite Green	FDA 4334 (2004)
	Histamine	In-house method Edta 1.08 (Based-on J. of Chromatography A809 (1998))
<b>Food/ Agricultural Products &amp; Materials</b> Animal Feeds Oil Seeds And Their By-products	Moisture Nitrogen  Fat Fibre Ash Total Dietary Fibre	AOCS Ba 2-38 (1993) AOCS Ba 4b-87 (1987) / AOCS Ba 4d-90 (1993) AOCS Ba 3-38 (1993) AOCS Ba 6-84 (1993) AOCS Ba 5a-49 (1993) AOAC 985.29 (2005)
	pH (i) Total Carbohydrate (ii) Calories/ Energy	AOAC 981.25 (2005) AOAC 986.25 (2006) AOAC Chapter 6 Methods of Analysis for Nutrition Labelling (199)
	Total Sugars	AOAC 974.06 (2005)
	Oil and Fat	AOAC 963.15 (2005) AOAC 920.39 (2005)
	Ash	AOAC 923.03 (2005) AOAC 972.15 (2005)
	Moisture	AOAC 925.10 (2005) AOAC 950.46 (2005)

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	Protein	AOAC 984.13 (2005)
	Crude Fibre	AOAC 962.09 (2005)
	Iron, Copper, Calcium Magnesium, Manganese, Zinc	AOAC 968.08 (2005)
	Sodium, Potassium, Calcium, Magnesium, Iron, Zinc, Copper, Manganese	AOAC 985.35 (2005)
	Phosphorous	AOAC 965.17 (2005)
	Amino Acids	In-House Method Edta 1.04 (based on J.Chromatography.A.724 (1996) 159-167/ Anal. Chem.(1979) 51.1667-1674)
	Acidity	AOAC 945.64 (2005)
	Sorbic Acid	In-House Method Edta 1.05 (based on AOAC 994.11 (2002)
<b>Food/ Agricultural Products &amp; Materials</b> Food/animal Feeds Oil Seeds And Their By-products	Arsenic	BP (2003) / AOAC 986.15 (2005)
	Lead	AOAC 972.25 (2005)
	Mercury	AOAC 971.21 (2005)
	Cadmium	AOAC 973.34 (2005)
	Zinc	AOAC 969.32 (2005), MS 3 (1982)
	Copper	AOAC 971.20 (2005), MS 3 (1982)
	Nickel	AOAC 971.20 (2005)
	Tin	AOAC 985.16 (2005)
<b>Foods</b> Cereals Manufactured Food Products Confectionery And Dairy Products Food Additives And Supplements sauces And Spices Nuts Fruits And Vegetables.	Antimony	AOAC 964.16 (2005)
	Sulphur Dioxide	AOAC 990.28 (2005) AOAC 892.02 (2005)
	Benzoic Acid	AOAC 963.19 (2005) AOAC 994.11 (2005)
	Boric Acid	AOAC 970.34 (2005) AOAC 959.09 (2005) AOAC 969.26 (2005)
	Moisture	MS ISO 6496 (2003)
	Nitrogen	MS ISO 5983 (2000)
	Fat	MS 1416 (1997)
	Free Fatty Acid	MS 3 (1982)
	Fibre	MS 1414 (2003)
	Ash	MS ISO 5984 (2003)
Acid Insoluble Ash	MS ISO 5985 (2003)	

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Mineral Elements: Calcium Cobalt Copper Iodine Iron Magnesium Manganese Molybdenum Phosphorous Selenium Sodium Zinc	MS 3 (1982)
	Calorific Value/ Energy	MS 3 (1982)
	Malachite Green + Leucomalachite Green	FDA 4334 (2004)
	Histamine	In-house method Edta 1.08 (Based on J. of Chromatography A809 (1998)
	Moisture Nitrogen  Fat Fibre Ash Total Dietary Fibre	AOCS Ba 2-38 (1993) AOCS Ba 4b-87 (1987) / AOCS Ba 4d-90 (1993) AOCS Ba 3-38 (1993) AOCS Ba 6-84 (1993) AOCS Ba 5a-49 (1993) AOAC 985.29 (2005)
	pH (i) Total Carbohydrate (ii) Calories / Energy	AOAC 981.12 (2005) AOAC 986.25 (2006) AOAC Chapter 6 Methods of Analysis for Nutrition Labelling (1993)
	Total Sugars	AOAC 974.06 (2005)
	Oil and Fat	AOAC 963.15 (2005) AOAC 920.39 (2005)
	Arsenic Lead Mercury Cadmium Zinc Copper Nickel Tin Antimony	BP (2003) / AOAC 986.15 (2005) AOAC 972.25 (2005) AOAC 971.21 (2005) AOAC 973.34 (2005) AOAC 969.32 (2005), MS 3(1982) AOAC 971.20 (2005), MS 3(1982) AOAC 971.20 (2005) AOAC 985.16 (2005) AOAC 964.16 (2005)
	Ash	AOAC 923.03 (2005) AOAC 972.15 (2005)

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	Moisture	AOAC 925.10 (2005) AOAC 950.46 (2005)
	Protein	AOAC 984.13 (2005)
	Crude Fibre	AOAC 962.09 (2005)
	Iron, Copper, Calcium Magnesium, Manganese, Zinc	AOAC 968.08 (2005)
	Sodium, Potassium, Calcium Magnesium, Iron, Zinc, Copper, Manganese	AOAC 985.35 (2005)
	Phosphorous	AOAC 965.17 (2005)
	Amino Acids	In-House Method EDTA 1.04 (based on J.Chromatography.A.724(1996) 159-167/ Anal. Chem.(1979) 51.1667-1674)
	Acidity	AOAC 945.64 (2005)
	Sorbic Acid	In-House Method Edta 1.05 (based on AOAC 994.11 (2002)
<b>Foods</b> Sugar	Colour Moisture Polarization Reducing Sugars Sulphated Ash Water Insoluble Matter Arsenic Lead Copper Sulphur Dioxide	MS 5: Part 1 (1997)
<b>Foods</b> Sauce	Total Nitrogen Salt Amino Nitrogen pH Arsenic Lead Benzoic Acid	MS 1120 (1988)
<b>Foods</b> Bird Nest	Nitrite, NO <sub>2</sub> <sup>-</sup> Nitrate, NO <sub>3</sub> <sup>-</sup>	GB5009 33-1010, MoHPRC-2010* GB5009 33-1010, MoHPRC-2010*
<b>Foods</b> Beverage	Caffeine	In-house Method Edta 1.13 (Based On AOAC 979.11(1995) and Afrc .J. On Food Sc.Vol.4(6)(2010)

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<b>Foods</b> Edible Oils, Eggs And Dairy Products	Cholesterol	AOAC 994.10 (2002)
<b>Foods</b> Dairy Products, Fruits, Vegetables And Derived Products	Vitamin A	In-house Method Edta 1.09 (Based on J of Food Chem, 71(2000)/HPLC pda)
<b>Foods</b> Beverages, Fruits And Vegetables And Derived Products	Vitamin C	In-house Method Edta 1.12 (Based on J of Food Chem, 94(2006)/HPLC pda)
<b>Food Analysis</b> Food	Soluble Dietary Fibre Insoluble Dietary Fibre	AOAC 993.19 AOAC 991.42
Agricultural Products & Materials	Soluble Dietary Fibre Insoluble Dietary Fibre	In-house Method Edta 1.15 based on Chapter AOAC 993.19 In-house Method Edta 1.16 based on Chapter AOAC 991.42
<b>Drugs And Pharmaceuticals</b> Natural Drugs Pharmaceutical	Arsenic Lead Mercury Cadmium Zinc Copper Nickel Tin Antimony	BP (2003) / AOAC 986.15 (2005) AOAC 972.25 (2005) AOAC 971.21 (2005) AOAC 973.34 (2005) AOAC 969.32 (2005), MS 3(1982) AOAC 971.20 (2005), MS 3(1982) AOAC 971.20 (2005) AOAC 985.16 (2005) AOAC 964.16 (2005)
<b>Drugs And Pharmaceuticals</b> Medicine/ Pharmaceutical	Methylsulfonylmethane (MSM)	USP 36 (2013)
<b>Quality Control</b> Drugs & Pharmaceuticals - Glycerin - Antacid Mixture	Glycerin (Qualitative analysis)  Chloroform	JSQI 2016 (using FTIR Technique) In-house Method Edta 1.14 based on BP 2014 for chloroform and morphine tincture.

## SCOPE OF TESTING : MICROBIOLOGICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
<b>Water</b> Potable And Domestic/ Purified/recreational/ Industrial Water	Total Heterophic Plate Count	APHA 9215 D (2005) (21 <sup>st</sup> . Edition)
	Total Coliform	APHA 9221 B (2005) (21 <sup>st</sup> . Edition) APHA 9222 B (2005) (21 <sup>st</sup> . Edition)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	<i>Escherichia coli</i>	APHA 9221 F (2005) (21 <sup>st</sup> . Edition) APHA 9222 G (2005) (21 <sup>st</sup> . Edition)
<b>Water Analysis</b> Water: Potable, Recreational, Purified, Wastewater	Enumeration of <i>Pseudomonas aeruginosa</i> Enumeration of <i>Staphylococcus aureus</i> Enumeration of Faecal Streptococci	APHA 9213 E (2005) APHA 9213 B (2005) APHA 9230 C (2005)
Foods	Total Plate Count	Bacteriological Analytical Manual (BAM)- Chapter 3
	Coliform	Bacteriological Analytical Manual (BAM)- Chapter 4
	<i>Escherichia coli</i>	Bacteriological Analytical Manual (BAM)- Chapter 4
<b>Food Analysis</b> Beverage And Food: fresh And Frozen	Enumeration of Yeast and Mould Enumeration of <i>Staphylococcus aureus</i> Enumeration of <i>Bacillus cereus</i> Detection of Salmonella Detection of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> Detection of <i>Clostridium perfringens</i> Detection of <i>Clostridium butolinum</i>	BAM Chapter 18 (2018) BAM Chapter 12 (2018) BAM Chapter 14 (2018) BAM Chapter 5 (2018) BAM Chapter 9 (2018) BAM Chapter 16 (2018) BAM Chapter 17 (2018)
<b>Quality Control</b> Pharmaceuticals & Nutraceuticals	Enumeration of Total Plate Count/ Total Enumeration of Viable Count Enumeration and Detection of Yeast and Mould Count Enumeration and Detection of <i>Escherichia coli</i> Enumeration of <i>Staphylococcus aureus</i> Enumeration of <i>Pseudomonas aeruginosa</i> Enumeration and Detection of Salmonella	USP 41 (2018)  USP 41 (2018) USP 41 (2018) USP 41 (2018) USP 41 (2018) USP 41 (2018)

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