

Schedule

Issue date: 4 July 2018
Valid until: 7 July 2021



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LABORATORY LOCATION:
(PERMANENT LABORATORY)



BIO SYNERGY LABORATORIES SDN. BHD.
NO. 43, JALAN SS 22/23
DAMANSARA JAYA
47400 PETALING JAYA, SELANGOR
MALAYSIA

FIELDS OF TESTING: CHEMICAL & MICROBIOLOGY

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2005 (ISO/IEC 17025:2005).

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 Products: <ul style="list-style-type: none"> • Non-alcoholic beverages • Fruits & Vegetables & Derived Products • Sauces, Herbs, Spices & Condiments • Flour and Confectionery • Fish products 	Benzoic Acid Sorbic Acid	In-house method CCF-01, Rev B, based on Journal Chromatography A, 1073 (2005) 393-397
Food Products: <ul style="list-style-type: none"> • Juice • Jelly Products • Herbs spices • Coffee • Tea • Frozen Food • Seafood • Flour & Confectionaries • Food Additives Supplement • Feed product • Edible Fats, Oil & their products • Cocoa and Cocoa Products 	Metals/Minerals <ul style="list-style-type: none"> • Lead • Cadmium • Tin • Calcium • Magnesium • Iron • Zinc • Copper • Sodium • Potassium • Antimony • Chromium 	In-house method CCF-03, based on AOAC 999.11 and APHA 3120
	Mercury	In house method CCF-04, based on AOAC 971.21 and APHA 3120
	Arsenic	In house method CCF-05, based on AOAC 986.15 and APHA 3120

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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 Products: <ul style="list-style-type: none"> Coffee & Coffee products 	Caffeine content Coffee content	MS 1360:1994 (Appendices A and G)
Cosmetics & Essential oils: <ul style="list-style-type: none"> Cosmetics and Toileteries Pharmaceutical Products/Traditional Medicine: <ul style="list-style-type: none"> Powder Capsule (Hard/Soft) Oil & Cream Pill 	Metals/Minerals <ul style="list-style-type: none"> Lead Cadmium Copper Mercury Arsenic	In house method CCP-01, based on BP 2013, Vol. IV, Appendix VII and APHA 3120
Food Products: <ul style="list-style-type: none"> Juice Sauces, Herbs, Spices & Condiments Non Alcoholic Beverages Flour and Confectionery Meat, Poultry & Derived Products Cocoa and Cocoa Products Frozen Food 	Moisture Protein / Nitrogen Ash Crude Fiber Crude Fat Total Fat Total Carbohydrate Energy Content as Calories	In-house method CCF-07, based on MS ISO 6496 : 2003 In-house method CCF-06, based on AOAC 2001.11, ISO 1871 : 2009 In-house method CCF-09, based on AOAC 942.05 In-house method CCF-13, based on MS ISO 6865 : 2003 In-house method CCF-12, based on MS 1416 : 1997 In-house method CCF-08, based On Pearson's Chemical Analysis of Food, 8 th Ed, 1990 Method of analysis for nutrition labelling, Chapter 1, 1993 Method of analysis for nutrition labelling, Chapter 1, 1993

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Feed	Moisture	MS ISO 6496 : 2003
	Protein / Nitrogen	AOAC 2001.11, ISO 1871 : 2009
	Ash	AOAC 942.05
	Crude Fiber	MS ISO 6865 : 2003
	Crude Fat	MS 1416 : 1997
	Total Fat	In-house method CCF-08, based On Pearson's Chemical Analysis of Food, 8 th Ed, 1990
	Total Carbohydrate	In-house method CCF-10, based on Method of analysis for nutrition labelling, Chapter 1, 1993
Edible Oil (Palm Oil and its Products)	Determination of Moisture and Volatile Matter	MPOB p2.1 Part 1
	Determination of Impurities	MPOB p2.2
	Determination of Peroxide Value	MPOB p2.3
	Determination of Acidity	MPOB p2.5
	Determination of DOBI	MPOB p2.9
	Determination of Iodine Value	MPOB p3.2
	Determination of Total Fatty Matter (TFM)	MPOB p3.7
	Determination of Lovibond Colour	MPOB p4.1
	Determination of Slip Melting Point	MPOB p4.2
Determination of Cloud Point	MPOB p4.3	

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SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Industrial Effluent	Temperature	APHA 2550 B
	pH	APHA 4500 +H
	Chemical Oxygen Demand	APHA 5220 C
	Biological Oxygen Demand	APHA 5210 B, APHA 4500 OG
	Total Suspended Solid	APHA 2540 D
	Oil and Grease	APHA 5520 B

Signatories:

- | | |
|---------------------------|--|
| 1. Khoo Hwa Chuan | IKM No. M/2212/4433/03/05 (Non-Resident) |
| 2. Wong Yoong Mei | IKM No. M/2673/5381/08 |
| 3. Hanisah Bt Zakaria | IKM No. L/1947/6487/13 |
| 4. Noor Amira Bt Mat Noor | IKM No. M/3948/6701/13 |
| 5. Ching Wai Loung | IKM No. M/1257/4064/00/01 |
| 6. Goh Sing Yae | IKM No. L/2660/7896/17 |

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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: <ul style="list-style-type: none"> • Coffee • Tea • Cereal Food • Frozen Food • Seafood • Sauces • Fruit Drink & Juice • Flour & Confectionery • Dairy Products 	Aerobic Plate Counts Yeast and Mould Counts <i>E. coli</i> / Coliform Count Staphylococcus <i>aureus</i> counts <i>Salmonella</i> detection	AOAC Official Method 990.12 (3M Petrifilm) AOAC Official Method 2014.05 (3M Petrifilm) AOAC Official Method 998.08 & 991.14 (3M Petrifilm) AOAC Official Method 2003.11, 2003.07, 2003.08 (3M Petrifilm) AOAC Official Method 2014.01 (3M Petrifilm)
Pharmaceutical products/Traditional Medicines: <ul style="list-style-type: none"> • Powder • Capsule (Hard/Soft) • Tablet • Oil & Cream • Pill 	Total Microbial Aerobic Count Total Combines Yeast & Mould Count Bile-tolerant Gram Negative Bacteria i) Qualitative ii) Quantitative <i>Escherichia coli</i> detection <i>Salmonella</i> detection <i>Staphylococcus aureus</i> detection	BP 2013, Appendix XVI B BP 2013, Appendix XVI B BP 2013, Appendix XVI B BP 2013, Appendix XVI B BP 2013, Appendix XVI B BP 2013, Appendix XVI B

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SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental testing <ul style="list-style-type: none"> Enumeration of Microbial Count in the Air Using an Open Plate (Sedimentation method) Enumeration/Detection of Microbial count on Surface Area, Equipment and Hand Using Swab Contact Method 	<ul style="list-style-type: none"> Total Plate Count Yeast Mould Aerobic Plate Count Yeast Mould <i>Staphylococcus aureus</i> Coliform <i>E. Coli</i> Salmonella 	Compendium of Methods for the Microbiological Examination of Foods, Chapter 3, 4th Edition (2001)
Water <ul style="list-style-type: none"> Potable and Domestic water Industrial water Distilled Demineralized water Reverse Osmosis water Ultrapure water Swimming Pool water Cooling Tower water Boiler water Surface water Mineral water Industrial effluent Treated water 	Heterotropic plate count (Membrane filtration) Heterotropic plate count (Pour plate) Standard total coliform (Membrane filtration) Standard total coliform (MPN) <i>Escherichia coli</i> (Membrane filtration) <i>Escherichia coli</i> (MPN)	APHA 9215 D APHA 9215 B APHA 9222 B APHA 9221 B APHA 9222 G APHA 9221 F
Food	<i>Campylobacter jejuni</i> and <i>C. coli</i> <i>Salmonella</i> <i>Escherichia coli</i> 0157 <i>Listeria monocytogenes</i>	In-house method Detection of <i>Campylobacter jejuni</i> and <i>C. coli</i> based on ISO 10272-1:2006 using NEOGEN ANSR In-house method Detection of <i>Salmonella spp.</i> Based on BS EN ISO 6579:2002 using NEOGEN ANSR In-house method Detection of <i>E. coli</i> 0157:H7 based on BS EN ISO 16654:2001 using NEOGEN ANSR In-house method Detection of <i>Listeria monocytogenes</i> based on ISO 11290-1:1996 using NEOGEN ANSR

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Signatories:

1. **Azyan Shahirah Bt Baderol Sham** **MJMM 0275**
2. **Asha Devi Jaiyaraman** **MJMM 0676**

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