

NO: SAMM 590

Page: 1 of 20

**LABORATORY LOCATION:**  
(PERMANENT LABORATORY)

**MYTEST LAB SDN BHD**  
**A-3-G, BLK. A, PUTRA WALK**  
**JALAN PP25, TAMAN PINGGIRAN PUTRA**  
**SEK. 2, BANDAR PUTRA PERMAI**  
**43300 SERI KEMBANGAN**  
**SELANGOR DARUL EHSAN**  
**MALAYSIA**

**FIELD OF TESTING:****CHEMICAL AND MICROBIOLOGY**

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
Environmental Sample Water and Waste Water	pH	APHA 4500 H+ B, 21 <sup>st</sup> Edition
	Total Suspended Solids	APHA 2540 D, 21 <sup>st</sup> Edition
	BOD5	APHA 5210 B, 21 <sup>st</sup> Edition / APHA 4500-OG, 21 <sup>st</sup> Edition
	COD	APHA 5220 C, 21 <sup>st</sup> Edition
	Oil and Grease	In-house method SOP-0217-2005 Based on APHA 5520 B, 21 <sup>st</sup> Edition
	Ammoniacal Nitrogen	APHA 4500-NH3 B & C, 21 <sup>st</sup> Edition
Waste Water	Phosphorus	APHA 4500-P E, 21 <sup>st</sup> Edition
	Nitrate	APHA 4500 NO <sub>3</sub> <sup>-</sup> E, 21 <sup>st</sup> Edition

NO: SAMM 590

Page: 2 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Hemodialysis Water	On-site Sampling	SOP-0222-2002 ANSI/AAMI/ISO 23500: 2011
Renal Dialysis Water, Potable Water, Tap Water, Drinking Water Domestic Water	<ul style="list-style-type: none"> <li>• Al</li> <li>• Sb</li> <li>• Ba</li> <li>• Be</li> <li>• Ca</li> <li>• Cd</li> <li>• Cr</li> <li>• Cu</li> <li>• Pb</li> <li>• Se</li> <li>• Ag</li> <li>• As</li> <li>• TI</li> <li>• Zn</li> <li>• Mn</li> <li>• Fe</li> <li>• Na</li> <li>• Mg</li> <li>• K</li> <li>• Hg</li> </ul> <p>Hardness Fluoride Nitrate Sulphate Total Chlorine Free Chlorine Cyanide Color Nitrate Nitrogen Nitrite Nitrogen Total Dissolved Solids Alkalinity Turbidity Detergent Phenol Chloride Ammonia</p>	<p>APHA 3125 B 21<sup>st</sup> Edition</p> <p>APHA 2340 B, 21<sup>st</sup> Edition HACH Method 8029, 2008, Edition 5 HACH Method 8171, 2008, Edition 5 HACH Method 8051, 2008, Edition 5 HACH Method 8167, 2008, Edition 5 HACH Method 8021, 2008, Edition 5 HACH Method 8027, 2008, Edition 5 APHA 2120 C, 21<sup>st</sup> Edition HACH Method 8171, 2008, Edition 5 HACH Method 8507, 2008, Edition 5 In-house Method SOP-0217-2018 APHA 2320 B, 21<sup>st</sup> Edition APHA 2130 B, 21<sup>st</sup> Edition HACH Method 8028, 2005, Edition 1 HACH Method 8047, 2005, Edition 1 HACH Method 8113, 2005, Edition 1 HACH Method 8155, 2005, Edition 1</p>

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NO: SAMM 590

Page: 3 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Renal Dialysis Water, Potable Water, Tap Water, Drinking Water Domestic Water (cont.)	Temperature  pH	APHA 2550 B, 21 <sup>st</sup> Edition  APHA 4500-H + B, 21 <sup>st</sup> Edition
Tap water Mineral water Drinking water Filter water Ground water Waste water	Total Chromium Hexavalent Chromium Trivalent Chromium	APHA 3111 B, 21 <sup>st</sup> Edition APHA 3500 Cr B, 21 <sup>st</sup> Edition In-House Method SOP-0217-2029 based on APHA 3111 B, 21 <sup>st</sup> Edition and APHA 3500 Cr B, 21 <sup>st</sup> Edition (by Calculation)
Deionized water Mineral water Drinking water Tap water Reverse osmosis water	Chloride	APHA 4500-Cl <sup>-</sup> B, 21 <sup>st</sup> Edition
Tap water Waste water	Formaldehyde	In-house Method SOP-0217-2031 by UHPLC based on EPA 1667 Rev. A
Tap Water Mineral Water Drinking Water Renal Dialysis Water Potable Water Swimming Pool Water	Anions: Fluoride as F Chloride as Cl Nitrite as NO <sub>2</sub> Sulphate as SO <sub>4</sub> Bromide as Br Nitrate as NO <sub>3</sub> Phosphate as PO <sub>4</sub>	APHA 4110 B, 21 <sup>st</sup> Edition Ion Chromatography with Chemical Suppression of Eluent Conductivity
Tap Water Mineral Water Drinking Water Potable Water Swimming Pool Water Wastewater Effluent	Total Solids  Conductivity  Resistivity  Acidity  Sulfide	APHA 2540 B, 21 <sup>st</sup> Edition  APHA 2510 B, 21 <sup>st</sup> Edition  In-house Method SOP-0217-2036 based on APHA 2510 B, 21 <sup>st</sup> Edition (by calculation)  APHA 2310 B, 21 <sup>st</sup> Edition  HACH Method 8131, 2018, Edition 11
Wastewater, Palm Oil Effluent	Total Kjeldahl Nitrogen   Fixed & Volatile Solids Ignited at 550 °C (MLVSS, MLSS)	In-house Method SOP-0217-2037 based on APHA – 4500 N <sub>org</sub> B, 21 <sup>st</sup> Edition, APHA 4500 NH <sub>3</sub> C, 21 <sup>st</sup> Edition  APHA 2540 E, 21 <sup>st</sup> Edition

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NO: SAMM 590

Page: 4 of 20

**SCOPE OF TESTING: CHEMICAL**

<b>Materials/ Products Tested</b>	<b>Type of Test/ Properties Measured/ Range of Measurement</b>	<b>Standard Test Methods/ Equipment/Techniques</b>
Portable & Domestic water	Free Chlorine as Cl <sub>2</sub>	APHA 4500-Cl G, 21st Edition 2005
Tap water		
Drinking water	Combined Chlorine as Cl <sub>2</sub> (Monochloramine and Dichloramine)	APHA 4500-Cl G, 21st Edition 2005
Mineral water		
RO water		
Renal dialysis water	Total Chlorine as Cl <sub>2</sub>	APHA 4500-Cl G, 21st Edition 2005
Swimming pool water		
River water		
Cooling tower water		
Wastewater	Boron Phosphorus Cobalt Nickel Tin Vanadium	APHA 3125 B, 21st Edition 2005

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NO: SAMM 590

Page: 5 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Cereal, Flour, Nuts, Cocoa Products, Confectionary, Process Meat	Fat	In-house Method SOP-0217-1008
Fruit Juice, Sauce, Soft Drink, Jam, Preserved Fruits	Benzoic Acid Sorbic Acid	In-house Method SOP-0217-1004, by UHPLC
Tea & Tea Products, Coffee & Coffee Products Beverages	Caffeine	In-house Method SOP-0217-1005, by UHPLC
Spices, Cocoa Powder, Corn Flour, Animal Feed	Moisture	In-house Method SOP-0217-1002
Tea, White Bread, Condensed Milk, Milk Powder, Corn Flour, Spices, Cocoa Powder, Nuts	Ash	In-house Method SOP-0217-1001
Processed Food	Colouring (Tartrazine, Sunset Yellow, Brilliant Blue, Carmosine, Allure Red, Ponceau 4R)	In-house Method SOP-0217-1006
Juices, Cocoa Powder, Corn Flour, Sauce	pH	In-house Method SOP-0217-1003
Juices, Soft Drinks, Spices	Sulphur Dioxide (Titration)	AOAC 990.28, 18 <sup>th</sup> Edition, 2005
Food	Total Sugar (Titration)	AOAC 968.28, 18 <sup>th</sup> Edition, 2005
Oil & fats	FFA	AOCS Ac5-41, 1999
	Peroxide Value	AOCS Cd 8-53, 1997 / AOAC 965.33, 18 <sup>th</sup> Edition, 2005
	Kries Test (Rancidity)	In-house Method SOP-0217-1012 Based on Pearson's Composition and Analysis of Food, 9 <sup>th</sup> Edition 1991 Page 641-642

NO: SAMM 590

Page: 6 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Cosmetic & Toiletries	Hydroquinone	In-house Method SOP-0217-3001 by UHPLC
	Tretinoin	In-house Method SOP-0217-3002 by UHPLC
Food Soft Drink, Juices & Tea Leaf	Vitamin C	In-house Method SOP-0217-1015 by UHPLC
Meat & Meat Products, Bird Nest	Nitrate, Nitrite	In-house Method SOP-0217-1014, based on HACH Method 8039, 2008, Edition 5
Meat & Meat Products, Fish & Fish Products, Frozen Food, Processed Food	Arsenic	In-house Method SOP-0217-1017, by AAS
	Mercury	In-house Method SOP-0217-1018, by AAS
	Antimony, Cadmium, Lead, Tin, Potassium, Sodium, Iron, Calcium, Magnesium, Copper, Zinc	In-house Method SOP-0217-1019, by AAS
Pharmaceutical Products and Traditional Herbal Products	Arsenic	In-house Method SOP-0217-1017, by AAS
	Mercury	In-house Method SOP-0217-1018, by AAS
	Antimony, Cadmium, Lead, Tin, Potassium, Sodium, Iron, Calcium, Magnesium, Copper, Zinc	In-house Method SOP-0217-1016, by AAS
Drink, Noodle	Boron	In-house Method SOP-0217-1020, by ICPMS
Waste Water		APHA 3030 E & APHA 3030 F, 21 <sup>st</sup> Edition (Sample Preparation)
Waste Water & Soil	Arsenic	APHA 3114 C, 21 <sup>st</sup> Edition
	Mercury	APHA 3112 B, 21 <sup>st</sup> Edition
	Cadmium, Lead, Copper, Manganese, Nickel, Tin, Zinc, Iron, Silver	APHA 3111 B, 21 <sup>st</sup> Edition
	Aluminium, Barium	APHA 3111 D, 21 <sup>st</sup> Edition
	Selenium	APHA 3500 Se, 21 <sup>st</sup> Edition
	Boron	APHA 3125 B, 21 <sup>st</sup> Edition

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NO: SAMM 590

Page: 7 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Dairy products Beverage and juices Processed food Canned food Frozen food	Vitamin A palmitate  Vitamin A acetate Vitamin D2 (ergocalciferol) Vitamin D3 (cholecalciferol) Vitamin E ( $\alpha$ -tocopherol)	In-House Method SOP-0217-1029 by UHPLC In-House Method SOP-0217-1028 by UHPLC
Meat and meat products Fish and fish products Milk and milk products Egg	Tetracycline Chlortetracycline Oxytetracycline	In-House Method SOP-0217-1021 by UHPLC
Drinks Syrup Jam Sugar products	Sodium Saccharin  Sodium Cyclamate	In-House Method SOP-0217-1022 by UHPLC In-House Method SOP-0217-1023 by UHPLC
Flour Bread Confectionery products	Calcium Propionate	In-House Method SOP-0217-1024 by UHPLC
Fish Squid Dried mushroom	Formaldehyde	In-House Method SOP-0217-1025 by UHPLC
Butter Cheese Soy Sauce Seasoning powder Frozen food	Sodium Chloride	In-House Method SOP-0217-1026 based on AOAC Method 960.29, 18 <sup>th</sup> Edition, 2005 AOAC Method 937.09, 18 <sup>th</sup> Edition, 2005 & MS 807:1983
Fish and Fish Product	Histamine	In-House Method SOP-0217-1030 by UHPLC
Meat and Seafood Honey Milk	Chloramphenicol	In-House Method, SOP-0117-1022 based on Romer's Elisa Method
Meat and Seafood Milk	Nitrofurantoin AOZ	In-House Method SOP-0117-1023 based on Romer's Elisa Method
	Nitrofurantoin AMOZ	In-House Method SOP-0117-1024 based on Romer's Elisa Method
	Nitrofurantoin AHD	In-House Method SOP-0117-1025 based on Romer's Elisa Method
	Nitrofurantoin SEM	In-House Method SOP-0117-1026 based on Romer's Elisa Method
Meat and Seafood	Beta Agonist Assay	In-House Method SOP-0117-1027 based on Romer's Elisa Method

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NO: SAMM 590

Page: 8 of 20

**SCOPE OF TESTING: CHEMICAL**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Flour Mix Cereal Chocolate	Gluten Assay	In-House Method SOP-0117-1021 based on Romer's Elisa Method
Chicken Fresh Fish Canned Sardine	Histamine	In-House Method SOP-0117-1028 based on Romer's Elisa Method
Flour Mix Cereal Ramen Vegetarian Chicken	Allergen of Gluten	In-House Method SOP-0117-1019 based on Romer's Lateral Flow Assay
Flour Mix Chocolate Milk Powder Ice Cream	Allergen of Total Milk	In-House Method SOP-0117-1020 based on Romer's Lateral Flow Assay
Vegetarian Chicken Oyster Sauce Frozen Crab Roll Fish Sauce	Allergen of Crustacea	In-House Method SOP-0117-1017 based on Romer's Lateral Flow Assay
Flour Mix Egg White Mayonnaise Seafood Tofu	Allergen of Egg	In-House Method SOP-0117-1018 based on Romer's Lateral Flow Assay
Nuts Peanut Butter Baby Instant Food	Total Aflatoxin (B1, B2, G1, G2)	In-House Method SOP-0117-1034 based on Ridascreen Fast Aflatoxin by R-Biopharm
Food	Energy as Calories	In-house Method SOP-0217-1032 based on Guide to Nutrition Labelling & Claims, MOH, 2006
	Calories from Fat	In-house Method SOP-0217-1033 based on Guide to Nutrition Labelling & Claims, MOH, 2006
	Carbohydrate	In-house Method SOP-0217-1034 based on Guide to Nutrition Labelling & Claims, MOH, 2006
	Cholesterol	In-House Method SOP-0217-1043 based on GB Method
Canned Processed Peas Canned Fish in Tomato Sauce	Drained Weight	In-house Method SOP-0217-1035 based on MS 675: 1988 & MS 952: 2012
Cordials Beverages	Brix	In-house Method SOP-0217-1036 based on AOAC 932.14, 18 <sup>th</sup> Edition, 2005

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NO: SAMM 590

Page: 9 of 20

**SCOPE OF TESTING: CHEMICAL**

<b>Materials/ Products Tested</b>	<b>Type of Test/ Properties Measured/ Range of Measurement</b>	<b>Standard Test Methods/ Equipment/Techniques</b>
Confectionary	Acrylamide	In-house method SOP-0217-1037 by UHPLC
Bird nest & Bird nest drink	Sialic Acid	In-house method SOP-0217-1038 by UHPLC
Salt & salt products	Iodine	In-House Method SOP-0217-1044 based on WHO Press, 3rd Edition
Noodle & noodle products	Boric acid	AOAC 970.33, 18th Edition 2005

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NO: SAMM 590

Page: 10 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Beverages Dairy Products Soy Sauce Animal Feeds Fish & Fish Products Seafood & Seafood Products Nuts & Nuts Products Cocoa & Cocoa Products Meat & Poultry Products Flour & Flour Products Cereal & Infant Foods Sauces, Herbs & Condiments	Protein/Total Nitrogen	In-house Method SOP-0217-1031 by Kjeldahl Method
Beverage Bread & bread products Cereal & cereal products Egg & egg products Flour & flour products Sauce	Fat (by acid hydrolysis)	In-House Method SOP-0217-1046 based on AOAC 922.06, 18 <sup>th</sup> Edition 2005
Fruit Juice, Sauce, Soft Drink, Jam, Preserved Fruits	Benzoic Acid (Calculated as Sodium Benzoate) Sorbic Acid (Calculated as Potassium Sorbate)	In-house Method SOP-0217-1004 by UHPLC
Chips, Sauces, Drink Cosmetics	Methyl Paraben Propyl Paraben	In-house Method SOP-0217-1039 by UHPLC
Wheat Flour & Flour Products	Benzoyl Peroxide	In-house Method SOP-0217-1040 by UHPLC
Milk & Milk Products Dairy Products Coconut Milk Ice Cream	Fat	In-house Method SOP-0217-1009 By Mojonier (gravimetric)
Sauces, Honey, Juices, Vinegar, Milk, Cordials and Liquors	Acidity (as Malic Acid, Oxalic Acid, Citric Acid Monohydrate, Citric Anhydrous, Tartaric Acid, Acetic Acid, Lactic Acid, Sulfuric Acid	In-house Method SOP-0217-1042 by titration
Drinks, Syrup, Jam, Sugar Products	Acesulfame K	In-house Method SOP-0217-1041 by UHPLC

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NO: SAMM 590

Page: 11 of 20

## SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Soil	Arsenic, Mercury, Cadmium, Lead, Copper, Manganese, Nickel, Tin, Zinc, Iron, Silver, Aluminium, Barium, Selenium, Boron	EPA 3050 B (Sample Preparation)
Soil	Loss on Ignition Organic Matter Chloride	BS 1377 part 3: 1990 (Clause 4) BS 1377 part 3: 1990 (Clause 3) BS 1377 part 3: 1990 (Clause 7.2 to 7.3)
Soil	Carbonate  Moisture	BS 1377 Part 3: 1990 (Clause 6.3)  BS 1377 Part 2: 1990 (Clause 3)
Soil and Ground Water	pH Sulphate	BS 1377 part 3: 1990 (Clause 9) BS 1377 part 3: 1990 (Clause 5.2 to 5.4)
<b>Cosmetic/Pharmaceutical/ Traditional Product</b> Ointment cream Cosmetic liquid Pharmaceutical tablet Syrup	Betamethasone Betamethasone 17-valerate Cortisone Cortisone acetate Dexamethasone Hydrocortisone Hydrocortisone 21-acetate Prednisolone	In-House Method SOP-0217-1027 by UHPLC
Pharmaceutical Products & Traditional Herbal Products (Liquid & Syrup, Cream, Tablet)	Prednisone	In-house Method SOP-0217-1027 by UHPLC
Liquid Suspension, Tablet	Paracetamol	In-house Method SOP-0217-3003 by UHPLC
Capsule Tablet	Uniformity of Weight	In-house Method SOP-0217-3004
Pill Capsule	Betamethasone Betamethasone 17-valerate Cortisone Cortisone acetate Dexamethasone Hydrocortisone Hydrocortisone 21-acetate Prednisolone Prednisone	In-House Method SOP-0217-1027 by UHPLC

NO: SAMM 590

Page: 12 of 20

**Signatories:**

1. ChM. Lee Tai Wai
2. ChM. Lim Ji Yuan

**IKM No.: L/1398/4521/04**

**IKM No.: L/2755/8169/18**

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NO: SAMM 590

Page: 13 of 20

SCOPE OF TESTING: CHEMICAL

SITE: CATEGORY I

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water	On-site Sampling & Testing (pH, Temperature, Turbidity)	In-house Method SOP-0222-2001 & SOP-0222-2003
	On-site:	In-house Method SOP-0222-2001 & SOP-0222-2003
	Free Chlorine as Cl <sub>2</sub>	
	Total Dissolved Solids	
	Conductivity	

## Signatories:

1. ChM. Lee Tai Wai
2. ChM. Lim Ji Yuan

IKM No.: L/1398/4521/04  
IKM No.: L/2755/8169/18

NO: SAMM 590

Page: 14 of 20

## SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food Meat & Meat Products Fish & Fish Products Milk & Milk Products Beverages & Soft Drinks	Total Plate Count (Aerobic Plate Count)	FDA/BAM Chapter 3, Jan 2001
	Coliforms (Enumeration of the Coliform Bacteria)	FDA/BAM Chapter 4, Sept 2002
	<i>Escherichia coli</i> (Enumeration of <i>Escherichia coli</i> )	FDA/BAM Chapter 4, Sept 2002
	<i>Salmonella</i>	FDA/BAM Chapter 5, Nov 2011
	<i>Staphylococcus aureus</i>	FDA/BAM Chapter 12, Jan 2001
	Yeast and Moulds	FDA/BAM Chapter 18, April 2001
	Total Coliform Count	AOAC 966.24, 18 <sup>th</sup> Edition, 2005
	Total <i>Escherichia coli</i> Count	AOAC 966.24, 18 <sup>th</sup> Edition, 2005
	<i>Bacillus cereus</i>	FDA/BAM Chapter 14, Jan 2001
	<i>Listeria</i>	FDA/BAM Chapter 10, April 2001
	<i>Vibrio parahaemolyticus</i>	FDA/BAM Chapter 9, May 2004
	<i>Lactobacillus</i>	Merck Microbiology Manual 12 <sup>th</sup> Edition
	<i>Clostridium perfringens</i>	FDA/BAM Chapter 16, Jan 2001
	<i>Shigella</i>	FDA/BAM Chapter 6, Feb 2013
Food		
Renal Dialysis Water	Total Viable Microbial Count	APHA 9215 B, 21 <sup>st</sup> Edition
	Endotoxin	Kinetic-turbidimetric Method, Chapter 85, USP 2007
Pharmaceutical Samples	Total Aerobic Microbial Count	Appendix XVI B.2, Harmonized Method, BP 2011
	Total Yeast Mould Count	Appendix XVI B.2, Harmonized Method, BP 2011

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NO: SAMM 590

Page: 15 of 20

## SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pharmaceutical & Cosmetic Products	Bile-tolerant Gram Negative Bacteria	BP 2012, Appendix XVI B
	<i>Candida albicans</i>	BP 2012, Appendix XVI B
	<i>Escherichia coli</i>	BP 2012, Appendix XVI B
	<i>Pseudomonas aeruginosa</i>	BP 2012, Appendix XVI B
	<i>Staphylococcus aureus</i>	BP 2012, Appendix XVI B
Water	Coliform	APHA 9221 B, 21 <sup>st</sup> Edition, 2005
	<i>Escherichia coli</i>	APHA 9221 F, 21 <sup>st</sup> Edition, 2005
	Fecal Streptococci	APHA 9230 C, 21 <sup>st</sup> Edition, 2005
	<i>Pseudomonas aeruginosa</i>	APHA 9213 E, 21 <sup>st</sup> Edition, 2005
	Total Plate Count (Heterotrophic Plate Count)	APHA 9215, 21 <sup>st</sup> Edition, 2005
	<i>Staphylococcus aureus</i>	APHA 9213 D, 21 <sup>st</sup> Edition, 2005
	<i>Legionella sp.</i>	In-house Method SOP-0117-2008, based on AOAC 2000
	<i>Clostridium perfringens</i>	ISO 14189: 2013
Surface	Coliform	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, 5 <sup>th</sup> Edition, 2015
	TPC	
	<i>Escherichia coli</i>	
Air Monitoring (Agar Plate)	Total Plate Count, Yeast & Mould	In-house Method SOP-0122-0003 Based on Mas-100 Eco, Merck Microbiology Manual 12 <sup>th</sup> Edition
	<i>Aspergillus brasiliensis</i>	In-house Method SOP-0122-0004 Based on International Journal of Systematic and Evolutionary 2007

NO: SAMM 590

Page: 16 of 20

## SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Peanut Butter Milk Carbonated Drink Frozen Mix Vegetable Mee Hoon Drinking Water Fried fish	Yeast and mould in food using MC-Media Pad  Coliform and <i>Escherichia Coli</i> in food using MC-Media Pad	In-House Method SOP-0117-1016 based on AOAC 997.02  In-House Method, SOP-0117-1029 based on AOAC 991.14
Oatmeal Wholemeal Bread Tomato Cocoa Powder Chocolate Bar Bird's Nest Coffee Powder Teabag	Fecal Coliform in food	FDA/BAM Chapter 4: Section One; Part E: Sept 2002
Shampoo Dettol Hand Sanitizer Baby Oil Tongkat Ali Body Lotion	Salmonella in Pharmaceutical Sample	British Pharmacopoeia 2012, Harmonise Method
Water	Heterotrophic plate count in water sample	APHA Method 9215 D, 21 <sup>st</sup> Edition, 2005
Oatmeal Wholemeal Bread Tomato Cocoa Powder Chocolate Bar Bird's Nest Coffee Powder Teabag	Total Plate Count (Aerobic Plate Count)	FDA/BAM Chapter 3, Jan 2001
	Coliforms (Enumeration of the Coliform Bacteria)	FDA/BAM Chapter 4, Sept 2002
	<i>Escherichia Coli</i> (Enumeration of <i>Escherichia Coli</i> )	FDA/BAM Chapter 4, Sept 2002
	Total Coliform count	AOAC 966.24, 2005
	Total <i>Escherichia Coli</i> count	AOAC 966.24, 2005
	Salmonella	FDA/BAM Chapter 5, Nov 2011
	<i>Staphylococcus Aureus</i>	FDA/BAM Chapter 12, Jan 2001
	Yeast and Moulds	FDA/BAM Chapter 18, April 2001



NO: SAMM 590

Page: 17 of 20

## SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Chocolate, Bakery Product and Confectionary Milk and Dairy Products Meat and Meat Product Vegetables Multi-component Foods or Meal Components	Enterobacteriaceae	ISO 21528-2:2017
Hermetically Sealed Product Canned Food Food Pouches Vacuum Packed Food	Total Anaerobic Count	In-house Method Based on FDA/BAM Chapter 3, Jan 2001
	Thermophilic Bacteria Count	Compendium of Methods for the Microbiology Examination of Food, Chapter 23 and 26, 5 <sup>th</sup> Ed, 2015
Meat and Meat Product Fish and Seafood Product Vegetables Multi-compound Foods or Meal Components	<i>Listeria monocytogenes</i>	In-house Method SOP-0117-1037 Based on Solus Elisa Method
Meat and Meat Product Fish and Seafood Product Vegetables Multi-components Foods or Meal Components Black Pepper Cocoa Powder Egg and Egg Products Chocolate, Bakery Product and Confectionary	Salmonella spp.	In-house Method SOP-0117-1036 Based on Solus Elisa Method
Tap Water Potable Water Recreational Water	Coliform	In-house Method SOP-0117-2013 Based on Merck Chromocult Coliform Agar acc. ISO 9308-1:2014
	<i>Escherichia coli</i>	In-house Method SOP-0117-2013 Based on Merck Chromocult Coliform Agar acc. ISO 9308-1:2014
RO Water Renal Dialysis Water Dialysate and Ultrapure Dialysate Concentration Solution A and B	Total Viable Microbial Count	ISO 23500: 2014

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NO: SAMM 590

Page: 18 of 20

## SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Surface Swab by Sponge Contact (of Non-animal Derived Material)	Total Plate Count Coliform Count <i>Escherichia coli</i> Count <i>Staphylococcus aureus</i> <i>Bacillus cereus</i> Yeast Mould Count <i>Listeria monocytogenes</i> <i>Salmonella</i> spp	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, 5 <sup>th</sup> Ed, 2015
Medical Devices and Consumable	Bioburden Test	ISO 11737-1: 2016
Peanut Butter Milk Frozen Mix Vegetable Mee Hoon Drinking Water Fried Fish	Total Plate Count  Total Plate Count <i>Staphylococcus aureus</i> <i>Salmonella</i> spp.	In-house Method Based on Merck Millipore MC Media Pad Rapid Aerobic Count AOAC OMA 990.12 AOAC OMA 2003.08 ISO 6579:2002
Additional Matrices		
RO Water Dialysate and Ultrapure Dialysate Concentration Solution A and B	Total Viable Microbial Count	AAMI/ANSI 13959: 2014
Surface Swab by Swab Contact	<i>Staphylococcus aureus</i> <i>Bacillus cereus</i> Yeast Mould <i>Listeria monocytogenes</i> <i>Salmonella</i> spp.	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, 5 <sup>th</sup> Ed, 2015
Traditional Herbal Products <ul style="list-style-type: none"> <li>• Tablet</li> <li>• Soft Capsule</li> <li>• Hard Capsule</li> <li>• Oil</li> <li>• Pills</li> <li>• Ointments</li> </ul>	Total Aerobic Microbial Count Total Yeast Mould Count	BP2020, Appendix XVI B2 and Appendix F1
Meat and Meat Product <ul style="list-style-type: none"> <li>• Raw Beef</li> <li>• Raw Chicken</li> <li>• Raw Pork</li> <li>• Cooked Ham</li> <li>• Minced Meat</li> </ul>	<i>Escherichia coli</i> O157:H7	Romer Labs Rapidchek Test Kit for <i>E. coli</i> O157:H7

NO: SAMM 590

Page: 19 of 20

**SCOPE OF TESTING: MICROBIOLOGY**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Fruit & Vegetable Product <ul style="list-style-type: none"> <li>• Durian</li> <li>• Nangka</li> <li>• Dry fruit</li> <li>• Tomatoes</li> <li>• Coleslaw</li> </ul> Beverage Product <ul style="list-style-type: none"> <li>• Apple Cider</li> <li>• Fruit Juices</li> <li>• Can Drink</li> <li>• Syrup Concentrated</li> <li>• Mineral Water</li> </ul> Domestic water		
Pharmaceutical and Traditional Herbal Products <ul style="list-style-type: none"> <li>• Tablet</li> <li>• Soft Capsule</li> <li>• Hard Capsule</li> <li>• Oil</li> <li>• Pill</li> <li>• Ointment</li> </ul>	Bile-tolerant Gram-Negative Bacteria Count  Detection of Candida albicans  Detection of Escherichia coli  Detection of Pseudomonas aeruginosa  Detection of Staphylococcus aureus  Detection of Salmonella	BP 2020 Appendix XVI B 4.1 and Appendix F 2.4.1  BP 2020 Appendix XVI B 4.7  BP 2020 Appendix XVI B 4.2 and Appendix F 2.4.2  BP 2020 Appendix XVI B 4.4  BP 2020 Appendix XVI B 4.5  BP 2020 Appendix XVI B 4.3 and Appendix F 2.4.3
Water <ul style="list-style-type: none"> <li>• Tap Water</li> <li>• Waste Water</li> <li>• Filtered Water/ Filtered Tap Water</li> <li>• Mineral Water</li> <li>• Portable Water</li> </ul>	Fecal Coliform	APHA 9221 E, 21 <sup>st</sup> Edition 2005
Water <ul style="list-style-type: none"> <li>• Tap Water</li> <li>• Drinking Water</li> <li>• Mineral Water</li> <li>• Portable Water</li> <li>• Ice Cubes</li> </ul>	Sulphite Reducing Bacteria	ISO 6461-2:1986 (Membrane Filtration Technique)

NO: SAMM 590

Page: 20 of 20

**Signatories:**

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|----|----------------------|----------|
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\*Non-resident