

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 1 of 22

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

FIELDS 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 st Edition
	Total Suspended Solids	APHA 2540 D, 21 st Edition
	BOD ₅	APHA 5210 B, 21 st Edition / APHA 4500-O G, 21 st Edition
	COD	APHA 5220 C, 21 st Edition
	Oil and Grease	APHA 5520 B, 21 st Edition
	Ammoniacal Nitrogen	APHA 4500-NH ₃ B & C, 21 st Edition
	Phosphorus	APHA 4500-P E, 21 st Edition
Waste Water	Nitrate	APHA 4500 NO ₃ ⁻ E, 21 st Edition

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)**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	<ul style="list-style-type: none"> • Al • Sb • Ba • Be • Ca • Cd • Cr • Cu • Pb • Se • Ag • As • TI • Zn • Mn • Fe • Na • Mg • K • Hg 	APHA 3125 B, 21 st Edition
Portable & Domestic Water Tap water Drinking water Mineral water RO water Renal dialysis water Swimming pool water River water Cooling tower water Wastewater	<ul style="list-style-type: none"> • B • P • Co • Ni • Sn • V 	
Renal Dialysis Water, Portable Water, Tap water, Drinking Water, Domestic Water	pH	APHA 4500-H ⁺ B, 21 st Edition
	Temperature	APHA 2550 B, 21 st Edition
	Hardness	APHA 2340 B, 21 st Edition
	Color	APHA 2120 C, 21 st Edition
	Alkalinity	APHA 2320 B, 21 st Edition
	Turbidity	APHA 2130 B, 21 st Edition
	Total dissolved solids	In-house Method SOP-0217-2018
	Fluoride	HACH Method 8029, 2008, Edition 5
	Nitrate	HACH Method 8171, 2008, Edition 5
	Sulphate	HACH Method 8051, 2008, Edition 5
	Total chlorine	HACH Method 8167, 2008, Edition 5
	Free chlorine	HACH Method 8021, 2008, Edition 5
Cyanide	HACH Method 8027, 2008, Edition 5	

NO: SAMM 590(Issue 2, 8 December replacement
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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Renal Dialysis Water, Portable Water, Tap Water, Drinking Water, Domestic Water (Cont.)	Nitrate Nitrogen	HACH Method 8171, 2008, Edition 5
	Nitrite Nitrogen	HACH Method 8507, 2008, Edition 5
	Detergent	HACH Method 8028, 2008, Edition 1
	Phenol	HACH Method 8047, 2008, Edition 1
	Chloride	HACH Method 8113, 2008, Edition 1
	Ammonia	HACH Method 8155, 2008, Edition 1
Tap water Mineral water Drinking water Filter water Ground water Waste water	Total Chromium Hexavalent Chromium Trivalent Chromium	APHA 3111 B, 21 st Edition APHA 3500 Cr B, 21 st Edition In-House Method SOP-0217-2029 based on APHA 3111 B, 21 st Edition and APHA 3500 Cr B, 21 st Edition (by Calculation)
Deionized water Mineral water Drinking water Tap water Reverse osmosis water	Chloride	APHA 4500-Cl ⁻ B, 21 st 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 ₂ Sulphate as SO ₄ Bromide as Br Nitrate as NO ₃ Phosphate as PO ₄	APHA 4110 B, 21 st 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 st Edition APHA 2510 B, 21 st Edition In-house Method SOP-0217-2035 based on APHA 2510 B, 21 st Edition (by calculation) APHA 2310 B, 21 st Edition HACH Method 8131, 2018, Edition 11

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 4 of 22

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Wastewater Palm Oil Effluent	Total Kjeldahl Nitrogen	In-house Method SOP-0217-2037 based on APHA 4500-N _{org} B, 21 st Edition, APHA 4500-NH ₃ C, 21 st Edition
	Fixed & Volatile Solids Ignited at 550 °C (MLVSS, MLSS)	APHA 2540 E, 21 st Edition
Portable & Domestic water Tap water Drinking water Mineral water RO water Renal dialysis water Swimming pool water River water Cooling tower water Wastewater	Free Chlorine as Cl ₂	APHA 4500-Cl G, 21 st Edition 2005
	Combined Chlorine as Cl ₂ (Monochloramine and Dichloramine)	APHA 4500-Cl G, 21 st Edition 2005
	Total Chlorine as Cl ₂	APHA 4500-Cl G, 21 st Edition 2005
Wastewater		APHA 3030 E & APHA 3030 F, 21 st Edition (Sample Preparation)
Wastewater	Arsenic	APHA 3114 C, 21 st Edition
	Mercury	APHA 3112 B, 21 st Edition
	Cadmium, Lead, Copper, Manganese, Nickel, Tin, Zinc, Iron, Silver	APHA 3111 B, 21 st Edition
	Aluminium, Barium	APHA 3111 D, 21 st Edition
	Selenium	APHA 3500 Se, 21 st Edition
	Boron	APHA 3125 B, 21 st Edition

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NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)**SCOPE OF TESTING: CHEMICAL**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Environmental Sample Portable water Drinking water Ground water River water	Phenol	APHA 5530 B&D, 23 rd Edition
Wastewater		APHA 5530 B&D, 21 st Edition
Environmental Sample Portable water Drinking water	Surfactant, Anionic (Detergents) as MBAS	APHA 5540 C, 23 rd Edition
Wastewater		APHA 5540 C, 21 st Edition
Environmental Sample Renal dialysis water Potable water Drinking water Mineral water Swimming pool water River water Ground water	<ul style="list-style-type: none"> • As • B • Ba • Ca • Cd • Co • Cr • Cu • Fe • K • Mg • Mn • Ni • Pb • Sb • Se • Ti • Zn 	APHA 3120 B, 23 rd Edition APHA 3030 E&F, 23 rd Edition (Sample Preparation)
Wastewater		APHA 3120 B, 21 st Edition APHA 3030 E&F, 21 st Edition (Sample Preparation)
Environmental Sample Renal dialysis water Potable water Drinking water Mineral water Swimming pool water River water Ground water Wastewater	<ul style="list-style-type: none"> • Hg • Sn 	In-house Method SOP-0217-2043 based on APHA 3120 B, 21 st Edition

Signatories:

- | | | |
|----|---|--------------------------------|
| 1. | ChM. Lee Tai Wai | IKM No.: L/1398/4521/04 |
| 2. | ChM. Lim Ji Yuan | IKM No.: L/2755/8169/18 |
| 3. | ChM. Nur Afiqah Sakinah binti.
Jailani | IKM No.: L/2756/8170/18 |

NO: SAMM 590(Issue 2, 8 December replacement
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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Tea, White Bread, Condensed Milk, Milk Powder, Corn Flour, Spices, Cocoa Powder, Nuts	Ash	In-house Method SOP-0217-1001
Spices, Cocoa Powder, Corn Flour, Animal Feed	Moisture	In-house Method SOP-0217-1002
Juices, Cocoa Powder, Corn Flour, Sauce	pH	In-house Method SOP-0217-1003
Fruit Juice, Sauces, Soft Drinks, Jam, Preserved Fruits	Benzoic Acid Sorbic Acid Benzoic Acid (Calculated as Sodium Benzoate) Sorbic Acid (Calculated as Potassium Sorbate)	In-house Method SOP-0217-1004, by UHPLC
Tea & Tea Products, Coffee & Coffee Products Beverages	Caffeine	In-house Method SOP-0217-1005, by UHPLC
Processed Food	Colouring (Tartrazine, Sunset Yellow, Brilliant Blue, Carmosine, Allure Read, Ponceau 4R)	In-house Method SOP-0217-1006
Juices, Soft Drinks, Spices	Sulphur Dioxide (Titration)	AOAC 990.28, 18 th Edition., 2005
Food Cereal, Flour, Nuts, Cocoa Products, Confectionary, Processed Meat	Fat (by Soxhlet)	In-house Method SOP-0217-1008
Milk & Milk Products Dairy Products Coconut Milk Ice Cream	Fat	In-house Method SOP-0217-1009 By Mojonnier (gravimetric)

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 7 of 22

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Beverages 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 th Edition 2005
Oil & fats	FFA	AOCS Ac 5-41, 1999
	Peroxide Value	AOCS Cd 8-53, 1997 / AOAC 956.33, 18 th Edition
	Kries Test (Rancidity)	In-house Method SOP-0217-1012 Based on Pearson's Composition and Analysis of Food, 9 th Edition 1991 Page 641-642
Food	Total Sugar (Titration)	AOAC 968.28, 18 th Edition, 2005
Meat & Meat Products, Bird Nest	Nitrate, Nitrite	In-house Method SOP-0217-1014, based on HACH Method 8039, 2008, Edition 5
Food Soft Drinks, Juices & Tea Leaf	Vitamin C	In-house Method SOP-0217-1015 by UPHLC
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
Drink, Noodle	Boron	In-house Method SOP-0217-1020, by ICPMS
Meat and meat products Fish and fish products Milk and milk products Egg	Tetracycline Chlortetracycline Oxytetracycline	In-house Method SOP-0217-1021, by UHPLC

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 8 of 22

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Drinks Syrups Jam Sugar products	Sodium Saccharin	In-house Method SOP-0217-1022 by UHPLC
	Sodium Cyclamate	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 th Edition, 2005 AOAC Method 937.09, 18 th Edition, 2005 & MS 807:1983
Dairy Products Beverages and Juices Processed Food Canned Food Frozen Food	Vitamin A acetate Vitamin D2 (ergocalciferol) Vitamin D3 (cholecalciferol) Vitamin E (α -tocopherol)	In-house Method SOP-0217-1028 by UHPLC
	Vitamin A palmitate	In-house Method SOP-0217-1029 by UHPLC
Fish and Fish Product	Histamine	In-house Method SOP-0217-1030 by UHPLC
Beverages Dairy Products Soy Sauce Animal Feeds Fish & Fish Products Seafood & Seafood Products Nuts and Nuts Products Cocoa & Cocoa Products Meat and Poultry Products Flour and Flour Products Cereal and Infant Products Sauces, Herbs & Condiments	Protein/Total Kjeldahl Nitrogen	In-house Method SOP-0217-1031 by Kjeldahl Method
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

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NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)**SCOPE OF TESTING: CHEMICAL**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
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 th Edition, 2005
Confectionary	Acrylamide	In-house Method SOP-0217-1037 by UHPLC
Bird Nest & Bird Nest Drinks	Sialic Acid	In-house Method SOP-0217-1038 by UHPLC
Chips, Sauces, Drink	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
Drinks, Syrup, Jam, Sugar Products	Acesulfame K	In-house Method SOP-0217-1041 by UHPLC
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
Food	Cholesterol	In-house Method SOP-0217-1043 based on GB Method
Salt & Salt Products	Iodine	In-house Method SOP-0217-1044 based on WHO Press, 3 rd Edition
Noodle & Noodle Products	Boric Acid	AOAC 970.33, 18 th Edition 2005

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 10 of 22

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
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(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 11 of 22

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Food <ul style="list-style-type: none"> • Frozen food • Processed food • Cocoa & cocoa products • Flour & confectionary • Sugar & sugar products • Sauces, herbs, spices & condiments • Meat, poultry & derived products • Nut, fruits, vegetables & derived products • Dairy products • Beverages • Seafood & seafood products 	<ul style="list-style-type: none"> • Al • As • Ca • Cd • Cu • Fe • Hg • K • Mg • Na • Pb • Sb • Se • Sn • Zn 	APHA 3120 B, 23 rd Edition AOAC 968.08 & AOAC 975.03, 18 th Edition (Sample Preparation)
Food <ul style="list-style-type: none"> • Cocoa & cocoa products • Flour & confectionary • Sugar & sugar products • Herbs, spices & condiments • Meat, poultry & derived products • Processed food • Beverages 	Total Dietary Fiber	In-house Method SOP-0217-1046 based on AOAC 985.29, 18 th Edition
Food <ul style="list-style-type: none"> • Beverages • Sauces & condiments • Starch products 	Ethyl Paraben Butyl Paraben	In-house Method SOP-0217-1039 (A) based on Journal of Chromatography A, 1073 (2005), pg. 393-397
Cosmetic Products		

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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(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 12 of 22

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Pharmaceutical Products & Traditional Herbal Products	Antimony, Cadmium, Lead, Tin, Potassium, Sodium, Iron, Calcium, Magnesium, Copper, Zinc	In-house Method SOP-0217-1016, by AAS
	Arsenic	In-house Method SOP-0217-1017, by AAS
	Mercury	In-house Method SOP-0217-1018, by AAS
Cosmetic & Toiletries	Hydroquinone	In-house Method SOP-0217-3001, by UHPLC
	Tretinoin	In-house Method SOP-0217-3002, 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
Soil	Arsenic	APHA 3114 C, 21 st Edition
	Mercury	APHA 3112 B, 21 st Edition
	Cadmium, Lead, Copper, Manganese, Nickel, Tin, Zinc, Iron, Silver	APHA 3111 B, 21 st Edition
	Aluminum, Barium	APHA 3111 D, 21 st Edition
	Selenium	APHA 3500 Se, 21 st Edition
	Boron	APHA 3125 B, 21 st Edition
	Arsenic, Mercury, Cadmium, Lead, Copper, Manganese, Nickel, Tin, Zinc, Iron, Silver, Aluminum, Barium, Selenium, Boron	EPA 3050 B (Sample Preparation)
Loss of Ignition	BS 1377:Part 3:1990 (Clause 4)	
Organic Matter	BS 1377:Part 3:1990 (Clause 3)	
Chloride	BS 1377:Part 3:1990 (Clause 7.2 to 7.3)	
Carbonate	BS 1377:Part 3:1990 (Clause 6.3)	
Moisture	BS 1377:Part 2:1990 (Clause 3)	

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NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 13 of 22

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Soil and Ground Water	pH Sulphate	BS 1377:Part 3:1990 (Clause 9) BS 1377:Part 3:1990 (Clause 5.2 to 5.4)
<u>Cosmetic / Pharmaceutical / Traditional Products</u> Ointment Cream Cosmetic Liquid Pharmaceutical Tablet Syrup Pill Capsule	Betamethasone Betamethasone 17-valerate Cortisone Cortisone acetate Dexamethasone Hydrocortisone Hydrocortisone 21-acetate Prednisolone Prednisone	In-house Method SOP-0217-1027 by UHPLC
Cosmetics	Methyl Paraben Propyl Paraben	In-house Method SOP-0217-1039 by UHPLC
<u>Pharmaceutical & Traditional Products</u> Tablets / Pill Capsule Liquid Cosmetic & Toiletries	<ul style="list-style-type: none"> • Pb • Cd • As • Hg 	APHA 3120 B, 23 rd Edition AOAC 975.03, 18 th Edition (Sample Preparation – Pb, Cd) AOAC 971.21, 18 th Edition (Sample Preparation – As, Hg)
<u>Packaging Materials</u>	<ul style="list-style-type: none"> • Pb • Cd • As • Sb 	APHA 3120 B, 23 rd Edition AOAC 973.32 & Food Act 1983, 13 th Schedule, 2012 (Sample Preparation)

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- | | | |
|----|--|--------------------------------|
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| 2. | ChM. Lim Ji Yuan | IKM No.: L/2755/8169/18 |
| 3. | ChM. Nur Afiqah Sakinah binti Jailani | IKM No.: L/2756/8170/18 |

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 14 of 22

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) On-site: Free Chlorine as Cl ₂ Total Dissolved Solids Conductivity	In-house Method SOP-0222-2001 & SOP-0222-2003 In-house Method SOP-0222-2001 & SOP-0222-2003
Haemodialysis Water	On-site Sampling	SOP-0222-2002 ANSI/AAMI/ISO 23500: 2011

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(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 15 of 22

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 Oatmeal Wholemeal Bread Tomato Cocoa Powder Chocolate Bar Bird's Nest Coffee Powder Teabag	Total Plate Count (Aerobic Plate Count) Coliforms (Enumeration of the Coliform Bacteria) <i>Escherichia coli</i> (Enumeration of <i>Escherichia coli</i>) <i>Salmonella</i> <i>Staphylococcus aureus</i> Yeast and Moulds Total Coliform Count Total <i>Escherichia coli</i> Count	FDA/BAM Chapter 3, Jan 2001 FDA/BAM Chapter 4, Sept 2002 FDA/BAM Chapter 4, Sept 2002 FDA/BAM Chapter 5, Nov 2011 FDA/BAM Chapter 12, Jan 2001 FDA/BAM Chapter 18, April 2001 In-house Method SOP 0117-1006 based on Merck Chromocult Coliform agar acc. ISO 9308-1 In-house Method SOP 0117-1006 based on Merck Chromocult Coliform agar acc. ISO 9308-1
Food Meat & Meat Products Fish & Fish Products Milk & Milk Products Beverages & Soft Drinks	<i>Bacillus cereus</i> <i>Listeria monocytogenes</i> <i>Vibrio parahaemolyticus</i> <i>Lactobacillus</i> <i>Clostridium perfringens</i> <i>Shigella</i>	FDA/BAM Chapter 14, Jan 2001 FDA/BAM Chapter 10, April 2001 FDA/BAM Chapter 9, May 2004 Merck Microbiology Manual 12 th Edition FDA/BAM Chapter 16, Jan 2001 FDA/BAM Chapter 6, Feb 2013
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
Hermetically Sealed Product Canned Food Food Pouches Vacuum Packed Food	Total Anaerobic Count Thermophilic Bacteria Count	In-house Method Based on FDA/BAM Chapter 3, Jan 2001 Compendium of Methods for the Microbiology Examination of Food, Chapter 23 and 26, 5 th Ed, 2015

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 16 of 22

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 Products Vegetables Multi-component Foods or Meal Components	Enterobacteriaceae	ISO 21528-2:2017
Meat and Meat Products Fish and Seafood Products Vegetables Multi-components Foods or Meal Components	<i>Listeria monocytogenes</i>	In-house Method SOP-0117-1037 based on Solus Elisa Method
Meat and Meat Products Fish and Seafood Products 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
Peanut Butter Milk Frozen Mix Vegetables Mee Hoon Drinking Water Fried Fish	Total Plate Count Total Plate Count <i>Staphylococcus aureus</i> <i>Salmonella spp.</i>	In-house Method based on Merck Milipore MC Media Pad Rapid Aerobic Count AOAC OMA 990.12 AOAC OMA 2003.08 ISO 6579:2002
Peanut Butter Milk Carbonated Drink Frozen Mix Vegetables Mee Hoon Drinking Water Fried Fish	Yeast and mould in food using MC-Media Pad Coliform and Escherichia coli 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

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NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 18 of 22

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Traditional Herbal Products <ul style="list-style-type: none"> • Tablet • Soft Capsule • Hard Capsule • Oil • Pill • Ointment 	Total Aerobic Microbial Count Total Yeast and Mould Count	BP 2020, Appendix XVI B2 and Appendix F1 BP 2020, Appendix XVI B2 and Appendix F1
Pharmaceutical and Traditional Herbal Products <ul style="list-style-type: none"> • Tablet • Soft Capsule • Hard Capsule • Oil • Pill • Ointment 	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
Renal Dialysis Water RO Water Dialysate and Ultrapure Dialysate Concentration Solution A and B RO Water Renal Dialysis Water Dialysate and Ultrapure Dialysate Concentration Solution A and B	Total Viable Microbial Count Endotoxin Total Viable Microbial Count Total Viable Microbial Count	APHA 9215 B, 21 st Edition Kinetic-turbidimetric Method, Chapter 85, USP 2007 AAMI/ANSI 13959:2014 ISO 23500:2014

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 19 of 22

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water	Heterotrophic plate count in water sample Total Plate Count (Heterotrophic Plate Count) Coliform <i>Escherichia coli</i> Fecal streptococci <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i> <i>Legionella sp.</i> <i>Clostridium perfringens</i>	APHA Method 9215 D, 21 st Edition, 2005 APHA 9215, 21 st Edition, 2005 APHA 9221 B, 21 st Edition, 2005 APHA 9221 F, 21 st Edition, 2005 APHA 9230 C, 21 st Edition, 2005 APHA 9213 E, 21 st Edition, 2005 APHA 9213 D, 21 st Edition, 2005 In-house Method SOP-0117-2008 based on AOAC 2000 ISO 14189:2013
Tap Water Potable Water Recreational Water	Coliform <i>Escherichia coli</i>	In-house Method SOP-0117-2013 based on Merck Chromocult Coliform Agar acc. ISO 9308-1:2014 In-house Method SOP-0117-2013 based on Merck Chromocult Coliform Agar acc. ISO 9308-1:2014
Water <ul style="list-style-type: none"> • Tap Water • Waste Water • Filtered Water/ Filtered Tap Water • Mineral Water • Portable Water 	Fecal Coliform	APHA 9221 E, 21 st Edition 2005

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 20 of 22

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Water <ul style="list-style-type: none"> • Tap Water • Drinking Water • Mineral Water • Portable Water • Ice cubes 	Sulphite Reducing Bacteria	ISO 6461-2:1986 (Membrane Filtration Technique)
Surface Swab by Swab Contact	Total Plate Count Coliform Count Escherichia coli Count Staphylococcus aureus Bacillus cereus Yeast Mould Count Listeria monocytogenes Salmonella spp	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, 5 th Ed, 2015
Surface Swab by Sponge Contact (of Non-animal Derived Material)	Total Plate Count Coliform Count Escherichia coli Count Staphylococcus aureus Bacillus cereus Yeast Mould Count Listeria monocytogenes Salmonella spp	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, 5 th Ed, 2015
Medical Devices and Consumable	Bioburden Test	ISO 11737-1: 2016

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NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)**SCOPE OF TESTING: MICROBIOLOGY**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Air Monitoring (Agar Plate)	Total Plate Count Yeast and Mould <i>Aspergillus brasiliensis</i>	In-house Method SOP-0122-0003 based on Mas-100 Eco, Merck Microbiology Manual 12 th Edition In-house Method SOP-0122-0004 based on International Journal of Systematic and Evolutionary Microbiology (2007)
Pharmaceutical Product <ul style="list-style-type: none"> • Tablet/Pill • Soft Capsule • Hard Capsule • Oil • Ointment • Syrup 	Total Aerobic Microbial Count Total Yeast and Mould Count	BP 2020, Appendix XVI B 2 and Appendix F 1 BP 2020, Appendix XVI B 2 and Appendix F 1
Cosmetic & Toiletries Product <ul style="list-style-type: none"> • Lotion • Shampoo • Cream • Deodorant • Solutions/ Liquid Based • Gel 	Total Aerobic Microbial Count Total Yeast and Mould Count Bile-tolerant Gram Negative Bacteria Count Detection of Bile-tolerant Gram Negative Bacteria Detection of <i>Candida albicans</i> Detection of <i>Escherichia coli</i> Detection of <i>Pseudomonas</i> <i>aeruginosa</i> Detection of <i>Staphylococcus</i> <i>aureus</i> Detection of <i>Salmonella</i>	BP 2020, Appendix XVI B 2 BP 2020, Appendix XVI B 2 BP 2020, Appendix XVI B.4.1.3 BP 2020, Appendix XVI B.4.1.2 BP 2020, Appendix XVI B.4.7 BP 2020, Appendix XVI B.4.2 BP 2020, Appendix XVI B.4.4 BP 2020, Appendix XVI B.4.5 BP 2020, Appendix XVI B.4.3
Food Packaging Material <ul style="list-style-type: none"> • Aluminium foil • Wrapper (Foil, film/paper) • Plastic Packaging • Bottles • Containers • Fabrics 	Total Aerobic Microbial Count Total Yeast and Mould Count Detection of <i>Escherichia Coli</i> Detection of <i>Pseudomonas</i> <i>aeruginosa</i> Detection of <i>Staphylococcus</i> <i>aureus</i>	In-house Method SOP-0122-0007 based on BP 2020 & pharmablog.in, February 2022

NO: SAMM 590(Issue 2, 8 December replacement
of SAMM 590 dated 23 June 2022)

Page: 22 of 22

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
<u>Additional Matrices</u> Pharmaceutical Product • Syrup	Bile-tolerant Gram Negative Bacteria Count	BP 2020, Appendix XVI B.4.1.3 and Appendix F 2.4.1.1
	Detection of Bile-tolerant Gram Negative Bacteria	BP 2020, Appendix XVI B.4.1.2
	Detection of <i>Candida albicans</i>	BP 2020, Appendix XVI B.4.7
	Detection of <i>Escherichia coli</i>	BP 2020, Appendix XVI B.4.2 and Appendix F 2.4.2
	Detection of <i>Pseudomonas aeruginosa</i>	BP 2020, Appendix XVI B.4.4
	Detection of <i>Staphylococcus aureus</i>	BP 2020, Appendix XVI B.4.5
Traditional Product • Syrup	Detection of <i>Salmonella</i>	BP 2020, Appendix XVI B.4.3 and Appendix F 2.4.3
	Total Aerobic Microbial Count	BP 2020, Appendix XVI B 2 and Appendix F 1
	Total Yeast and Mould Count	BP 2020, Appendix XVI B 2 and Appendix F 1
	Bile-tolerant Gram Negative Bacteria Count	BP 2020, Appendix XVI B.4.1.3 and Appendix F 2.4.1
	Detection of Bile-tolerant Gram Negative Bacteria	BP 2020, Appendix XVI B.4.1.2
	Detection of <i>Candida albicans</i>	BP 2020, Appendix XVI B.4.7
	Detection of <i>Escherichia coli</i>	BP 2020, Appendix XVI B.4.2 and Appendix F 2.4.2
	Detection of <i>Pseudomonas aeruginosa</i>	BP 2020, Appendix XVI B.4.4
Detection of <i>Staphylococcus aureus</i>	BP 2020, Appendix XVI B.4.5	
Detection of <i>Salmonella</i>	BP 2020, Appendix XVI B.4.3 and Appendix F 2.4.3	

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