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LABORATORY LOCATION/ CENTRAL OFFICE:	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 , 43300, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	CHEMICAL 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).

CENTRAL LOCATION:	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 , 43300, Selangor
FIELD(S) OF TESTING :	CHEMICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
& Coffee Products	None	by UHPLC
& Fish Products, Frozen	None	by AAS
(liquid & Syrup, Cream,	None	None
Additional Matrices	None	None
Air Monitoring (agar Plate)	Total Plate Count, Yeast & Mould	In-house Method SOP-0122-0003 Based on Mas-100 Eco, Merck Microbiology Manual 12' Edition
And B	None	None
	None	None
And Confectionary	None	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
And Traditional Herbal	None	by AAS
Animal Feeds	None	None
	Crude Protein	AOAC 2001.11. 21st Edition, 2019
	Ash	AOAC 942.05. 21% Edition, 2019
	Aflatoxin, 10002098 (Sh-Aq-	Agrauquant® Total Aflatoxin 4/40
	Aflatoxin Total)	Elisa
	Ochratoxin, 10002102 (Sh-Aq-	Agrauquant® Ochratoxin 2/40 Elisa
	Ochratoxin)	Kit
	Zearalenone, 10002111 (Sh-Aq-	Agrauquant® Zearalenone Plus
	Zearalenone)	25/1000 Elisa Kit
	T-2 Toxin, 10002113	Agrauquant® T-2 Toxin 20/500
	Toxin)	Elisa
	Deoxynivalenol, 10002106 (Sh-Aq-	Kit
	Deoxynivalenol)	Agrauquant®
	Fumonisin, 10002104 (Sh-Aq-	Deoxynivalenol 0.25/5.0 Elisa Kit
	Fumonisin)	Agrauquant® Fumonisin 0.25/5.0
	Yeast And Mold (Petrifilm)	Elisa
	E. Coli And Coliform	Kit
	E. Coli And Coliform	AOAC 997.02. EDITION, 2019
	E. Coli And Coliform	Determination of Coliform & E.coli
	E. Coli And Coliform	(Pour Plate Method) - AOAC
Apple Cider	None	performance tested. Certificate no. 020902
Baby Instant Food	None	AOAC 2014.01. 21% Edition, 2019
Baby Oil	None	None
Beverage	Fat (by acid hydrolysis)	by R-Biopharm
Beverage And Juices	None	None
Beverage Product	None	None
Beverages	None	None
	Protein/Total Nitrogen	In-house Method SOP-0217-1031
	Total Dietary Fiber	by
	Sorbic Acid	AOAC 985.29
	None	based on Journal of
	Ethanol	to 1-17 (HPLC)
	None	In-house method LWI-TEC-
	Sorbic Acid in Food by Ultra High	None
	Performance Liquid Chromatography	based on AOAC Official Method 983.16, Benzoic Acid and Sorbic
	Performance Liquid Chromatography	Acid in Food, AOAC International,
	Performance Liquid Chromatography	2005

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determination of caffeine in Soft Drink by Ultra High Performance Liquid Chromatography	In-house method FQL-TM-FA202 based on Ashoor et. Al. J. Assoc. Off. Anal. Chem. Vol.66, No.3, 1983
Bird Nest & Bird Nest Drink	Sialic Acid	In-house method SOP-0217-1038 by
Bird-™s Nest	None	None
	None	None
	Nitrite	In-house method LWI-TEC-
Black Pepper	None	None
	Aflatoxin B2	L03-002-Determination of Aflatoxin
Body Lotion	None	None
Bread	None	by UHPLC
	pH	AOAC 945.42
Bread & Bread Products	None	based on AOAC 922.06, 18" Edition
Butter	Sodium Chloride	In-House Method SOP-0217-1026
Can Drink	None	None
Canned Fish In Tomato	None	based on MS 675: 1988 &
Canned Food	Vitamin D2 (ergocalciferol)	by UHPLC
	None	FDA/BAM Chapter 3, Jan 2001
	None	None
	None	Analysis for Nutrition Labeling,
Canned Processed Peas	Drained Weight	In-house Method SOP-0217-1035
Canned Sardine	None	None
Capsule	Uniformity of Weight	In-house Method SOP-0217-3004
	Betamethasone 17-valerate	by UHPLC
Carbonated Drink	None	None
Cereal	None	based on Romer-™s Elisa Method
	None	based on Romer-™s Lateral Flow
	Total Aflatoxin	MOH L03-001: Determination of
Cereal & Cereal Products	None	2005
	None	None
Cereal & Infant Foods	None	None
Cereal, Flour, Nuts, Cocoa	None	None
Cheese	None	based on AOAC Method 960.29, 18"
	Aflatoxin M1	In-House Method Ref. No. MOH
	Benzoic acid and sorbic acid	E03-002 The Determination of Benzoic Acid and Sorbic Acid in
	Benzoic acid and sorbic acid	Food using Liquid Chromatography
Chicken	Histamine	In-House Method SOP-0117-1028
Chips, Sauces, Drink	Methyl Paraben	In-house Method SOP-0217-1039 by
Chocolate	None	None
	None	based on Romer-™s Lateral Flow
Chocolate Bar	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Coliform Bacteria)	None
Chocolate, Bakery Product	Enterobacteriaceae	ISO 21528-2:2017
Chocolate, Bakery Product	None	None
Cocoa & Cocoa Products	None	None
Cocoa Powder	None	None
	Coliforms (Enumeration of the	FDA/BAM Chapter 4, Sept 2002
	None	None
Cocoa Powder, Nuts	None	None
Coconut Milk	None	None
Coffee Powder	None	None
	Escherichia Coli (Enumeration of	FDA/BAM Chapter 4, Sept 2002
Coleslaw	None	None
Concentration Solution A	None	None
	None	None
Condensed Milk, Milk	Ash	In-house Method SOP-0217-1001
Condiments	None	None
	None	None
	None	None
	None	None
	None	None
	None	Derivatisation
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
Confectionary	Acrylamide	In-house method SOP-0217-1037 by
	None	025. Based USDA/GFSAN on
Confectionery Products	None	None
	None	None
Consumable	None	None
Contact	Bacillus cereus Yeast Mould	Microbiology Examination of Foods, Chapter 3, Ed, 2015
	0 rpm to 6000 rpm	1.9 rpm
Cooked Ham	None	None
Cooling Tower Water	None	None
	Emission Spectroscopy:	None
	Temperature	APHA 2550 B, Edition
	None	None
	None	Edition
	Total Escherichia coli Count	APHA 9221 F (MPN), 24' Edition
	None	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Cordials Beverages	Brix	In-house Method SOP-0217-1036 based on AOAC 932.14, 18" Edition,
Cosmetic & Toiletries	Hydroquinone	In-house Method SOP-0217-3001 by
Cosmetic Liquid	Cortisone acetate	None
Cosmetic/pharmaceutical/	Betamethasone	In-House Method SOP-0217-1027
Cosmetics	Propyl Paraben	UHPLC
	Methyl Paraben	In-house Method C/COS/007 based
	(Escherichia coli, Pseudomonas	BP 2013 Edition Appendix XVI B.1
	Efficacy of Antimicrobial	None
	Salicylic Acid	In house method MY/STP/247 based on BP 2007
	Hydroquinone	ACM Ino 03, 2005
	Formaldehyde	In house method MY/STP/249 based on Journal of Food and Drug Analysis, Vol.11, No.1, 2003 (HPLC)
Dairy Products	Mesophilic Bacteria	Microbiological Examination of Non-
	Vitamin A palmitate	In-House Method SOP-0217-1029
	None	Method
	None	By Mojonner (gravimetric)
	Moisture	In-house Method 0509 based on
	Majonnier Fat	AOAC 932.06, Edition
	None	None
	None	None
	Shigella species	FDA-BAM Chapter 6, 2014
	None	None
	None	None
	None	AOAC, 1993)
	None	None
	Water activity	AOAC 978.18 (2000)
	None	Fluorescence Detection
	Vitamin B5	In-house method LWI-TEC-
	None	None
	Ascorbic Acid	In-house method LWI-TEC-
	Vitamin A (Retinol)	In-house method LWI-TEC-
	None	None
	None	(Pour Plate Technique)
	None	(Detection, MPN & Spread Plate
	Enterobacteriaceae Detection	ISO 21528-1: 2004
	Aerobic Plate Count	3M-,¢ Petrifilm-,¢ Rapid Aerobic
	None	None
Deionized Water	None	None
	Antimony	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
Dettol	Sample	Harmonise Method
Dialysate	None	None
	None	None
Dialysate And Ultrapure	None	None
	None	None
Domestic Water	None	None
Domestic Water (cont.)	None	None
Dried Mushroom	None	None
Drink, Jam, Preserved Fruits	Sorbic Acid	by UHPLC
	Sodium Benzoate)	UHPLC
Drink, Noodle	Boron	In-house Method SOP-0217-1020,
Drinking Water	pH	APHA 4500-H + B, 21% Edition
	Trivalent Chromium	In-House Method SOP-0217-2029
	None	None
	Chloride as Cl	Suppression of Eluent Conductivity
	Conductivity	APHA 2510 B, 21% Edition
	Combined Chlorine as Cl ₂	APHA 4500-Cl G, 21st Edition 2005
	None	None
	Staphylococcus aureus	AOAC OMA 2003.08
	Chlorite (ClO ₂)	In House Method 6023, based on
	None	None
	None	None
	Mineral Oil	APHA 5520 F
	Fluoride	APHA C
	None	None
	Heterotrophic Plate Count	APHA 9215 D
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	126, based on Thermo Fisher Application Noted 154
	Phenol	APHA 6420C, 24" Edition
	None	In-house method SGS-TM-ENVI-W-
	Organochlorine Pesticide	APHA 6630B, 24" Edition
	Conductivity	APHA 2510 B
	None	Boiling Cell Method
	None	QIAGEN Mericon? Bacteria Kit
	None	spp. by Gel Electrophoresis
	None	monocytogenes by Gel
	None	Real Time Polymerase Chain

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	and Escherichia coli count	9222 H
	Coliform and Escherichia coli	Presence/absence Technique
	pH	APHA 4500-H* B
	Colour	APHA 2120B
	Turbidity	APHA 2130B
	Free Chlorine	HACH Method No . 8021
	Ammonia as N	HACH Method No . 8038
	as Fe	HACH Method No . 8008
	Manganese as Mn	HACH Method No . 8149
	Fluoride as F	HACH Method No . 8029
	Aluminium as Al	HACH Method No . 8326
	pH	APHA 4500-H* B
	Colour	APHA 2120B
	Turbidity	APHA 2130B
	Free Chlorine	HACH Method No . 8021
	Ammonia as N	HACH Method No . 8038
	as Fe	HACH Method No . 8008
	Manganese as Mn	HACH Method No . 8149
	Fluoride as F	HACH Method No . 8029
	Aluminium as Al	HACH Method No . 8326
	Total Dissolved Solids	APHA 2540. C
	Total Dissolved Solids	APHA 2540. C
Drinks	Sodium Saccharin	In-House Method SOP-0217-1022
Drinks, Syrup, Jam, Sugar	Acesulfame K	In-house Method SOP-0217-1041 by
Dry Fruit	None	None
Durian	None	None
Effluent	None	(by calculation)
	None	based on APHA -" 4500 Norg B, 21%
	pH	APHA 4500-H*B
	Temperature	APHA 2550 A, B
	Oxygen (Dissolved)	APHA 4500-0 G
	Free Chlorine	HACH Method 8021
	Temperature	APHA 2550 B
	pH	APHA 4500 H*B
	pH	APHA 4500 - H*B
Egg	None	None
	Fipronil	In-house method, SGS-TM-FOOD-
Egg & Egg Products	None	None
	None	None
Egg And Egg Products	None	None
	None	None
Egg White Mayonnaise Seafood Tofu	None	based on Romer-™s Lateral Flow Assay
Environmental Sample Water And Waste Water	pH	APHA 4500 H+ B, 215 Edition

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Filter Water	None	based on APHA 3111 B, Edition
Filtered Tap Water	None	None
Filtered Water/	None	None
Fish	Formaldehyde	In-House Method SOP-0217-1025
	Mercury	In-house Method, Ref. No. MOH:
	Sulphite (Calculated as Sulphur	In-house Method, Ref. No. MOH
Fish & Fish Products	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Leucomalachite green	In-house method, Ref. No. MOH:
Fish And Fish Product	2-amino ?albendazole	In-house Method, Ref. No. MOH:
	Histamine	In-House Method SOP-0217-1030
	Avermectin:	In-House Method, Ref. No. MOH:
Fish And Fish Products	None	E03-014: Determination Of
	Chlortetracycline	by UHPLC
	None	In House Method MY/STP/179
	Nitrofurans metabolites	In-house method SGS-TM-FOOD-
	Biogenic Amines	In-house Method Ref. No. MOH:
	Putrescine	In-house Method, Ref. No. MOH:
	Danofloxacin	In-House Method, Ref. No. MOH:
	Pesticide Residues: Alpha-BHC	In-house method, Ref. No. MOH:
	Gamma-BHC Delta-HCH	F03-009-Determination of Pesticide Residues in Fish, Meat, Poultry and Its Products using QUEChERS Method by Gas Chromatography.
	Benzimidazole:	In-house Method, Ref. No. MOH
	None	Microwave Digestion, ICP-OES
	Histamine	In-house Method LWI-TEC-
	None	None
	Tin	None
	None	None
	None	None
	Yeast and Molds Count	(3M-,¢ Petrifilm-,¢ Rapid Yeast
	Formaldehyde	In-house Method, Ref. No. MOH
Fish And Seafood Product	None	Based on Solus Elisa Method
	None	Based on Solus Elisa Method
Fish Sauce	None	None
Flour	Calcium Propionate	In-House Method SOP-0217-1024
	Ash	AOAC 923.03
	None	None
	Benzoyl Peroxide	In-house method, Ref. No. MOH:
	Nitrogen / Protein	AOCS Bc 4-91

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Benzoyl Peroxide	MOH E03-024: The Determination of
Flour & Flour Products	None	None
	None	None
Flour Mix	Gluten Assay	In-House Method SOP-0117-1021
	Allergen of Gluten	In-House Method SOP-0117-1019
	Allergen of Total Milk	In-House Method SOP-0117-1020
	Allergen of Egg	In-House Method SOP-0117-1018
Flour, Animal Feed	None	None
Flour, Sauce	None	None
Food	Fat	In-house Method SOP-0217-1008
	Total Sugar (Titration)	AOAC 968.28, Edition, 2005
	Vitamin C	In-house Method SOP-0217-1015 by
	Energy as Calories	In-house Method SOP-0217-1032
	Shigella	FDA/BAM Chapter 6, Feb 2013
	None	None
	None	None
	Tin (Sn)	In-house Method C/FOD/029
	None	None
	Ascorbic Acid (Vitamin C)	In-house Method C/FOD/003
	None	None
	None	None
	None	None
	Staphylococcus aureus -" Most Probable Number	AOAC 987.09
	Enumeration of Mesophilic Lactic Acid	ISO 15214: 1998
	None	None
	Detection & Enumeration of Coliform	AS 5013.3 - 2022
	Enumeration of Coliform	FDA-BAM Chapter 4 (I.G)
	Detection & Enumeration of Escherichia coli	AS 5013.15 -" 2006
	Enumeration of Escherichia coli	FDA-BAM Chapter 4 (I.G)
	Detection of Salmonella spp.	AS 5013.10 - 2009
	Enumeration of Yeast and Molds	FDA -" BAM Chapter: 18
	Detection of Listeria monocytogenes	In-house Method M/FOD/010 based on FDA -" BAM Chapter 10:2011
	Enumeration of Bacillus cereus	In-house Method M/FOD/011 based on FDA -" BAM Chapter 14:2012
	Enumeration of Fecal Coliform	CMME of Foods - Chapter 8.8
	Clostridium perfringens Count	ISO 7937:2004
	Tin	None
	Sugar Profile:	In-house method SGS-TM-FOOD-104

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Folic acid	In-house method SGS-TM-FOOD-106
	Metals Contaminants Arsenic, As Lead, Pb Copper, Cu	In-House Method, SGS-WI-LAB-028 based on AOAC 986.15, 975.03, 922.02, 2011.14 & 2015.01, APHA 3120B and APHA 3125B
	Total Sugars	In-house method, SGS-TM-FOOD-
	Water activity	In-house method, SGS-TM-FOOD-
	None	None
	Vitamin A	In-house method SGS-TM-FOOD-050 based on Bull. Dept. Med Sci, Vol 37, No. 1 Jan -" March 1995,
	Total Aerobic Count	AOAC 989.10: 2005 & AOAC
	Listeria monocytogenes	In-house method, SGS-TM-MICR-
	None	None
	Porcine DNA	In-house method, SGS-TM-BIOT-
	Total Plate Count	AS 1766.2.1-1991
	Listeria monocytogenes	ISO 11290-1:2017 (E) / Detection
	Salmonella spp.	ISO 6579:2017 (E) / Detection
	Bacillus cereus	ISO 7932:2004 (E) / Enumeration
	Bacillus cereus	ISO 21871:2006 (E) / Detection and
	Vibrio parahaemolyticus	ISO/TS 21872-1:2017(E) / Detection
	Escherichia coli	ISO 7251:2005 (E) / Detection and
	E. Coli 0157	ISO 16654:2001(E) / Detection
	Yeast and Mould Count	In-house method Ref. No. MOH:
	Aerobic Plate Count	In-house method based on AOAC
	Coliform	ISO 4831:2006 (E) / Detection and
	Mesophilic Lactic Acid Bacteria	ISO 15214:1998 (E) / Enumeration
	DNA Extraction	In-house Method, Ref. No. MOH
	Benzoic acid	In-house Method, Ref. No. MOH:
	Saccharin	In-house Method, Ref. No. MOH:
	Sulphur Dioxide	In-House Method, Ref. No. MOH:
	Boric acid	In- House Method, Ref. No. MOH:
	Formaldehyde	In-house Method, Ref. No. MOH:
	Egg Allergen ? Qualitative	In-house Method, Ref. No. MOH:
	Peanut Allergen ? Qualitative	In-house Method, Ref. No. MOH:
	Milk Allergen- Qualitative	In-house Method, Ref. No. MOH:
	Gliadin Allergen ? Qualitative	In-house Method, Ref. No. MOH:
	Soy Allergen- Qualitative	In-House Method Ref. No. MOH
	Crude Fibre	AOCS Ba 6-84
	None	Microbiology of food and animal
	None	feeding stuffs- Horizontal method for

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Listeria monocytogenes	the detection and enumeration of
	Listeria monocytogenes	Listeria monocytogenes- Part 1:
	Listeria monocytogenes	Detection Method
	Listeria monocytogenes	Method No: MOH
	Listeria monocytogenes	AOAC Official Method 991.14 3M-,¢
	Escherichia coli / Coliform	Petrifilm-,¢ E.coli / coliform count Plates
	Escherichia coli / Coliform	Method No: MOH K03-203
	Escherichia coli / Coliform	AOAC Official Method 990.12 3M-,¢
	Aerobic Count Plates	Petrifilm-,¢ Aerobic Count Plates
	Aerobic Count Plates	Method No: MOH
	Aerobic Count Plates	AOAC Official Method 2003.07
	Staphylococcus aureus	2003.08, 2003.11 3M-,¢ Staph Express Count Plate
	Staphylococcus aureus	Method No: MOH K03-205
	Staphylococcus aureus	AS/NZS 1766.2.9:1997 Examination
	Staphylococcus aureus	for specific organisms- Vibrio
	Vibrio parahaemolyticus	parahaemolyticus of Australian
	Vibrio parahaemolyticus	Standard
	Vibrio parahaemolyticus	Method No: MOH K03-310
	Vibrio parahaemolyticus	ISO 7932, Third Edition 2004-06-16
	Vibrio parahaemolyticus	Microbiology of food and animal
	Vibrio parahaemolyticus	feeding stuffs -" Horizontal method
	Bacillus cereus	for the enumeration of presumptive
	Bacillus cereus	Bacillus cereus -" Colony- count
	Bacillus cereus	technique at 30°C
	Bacillus cereus	Method No: MOH (1)
	Bacillus cereus	ISO/TS 22964:2006 (E)
	Enterobacter sakazakii	IDF/RM 210:2006 (E) -" Detection of Enterobacter sakazakii
	Enterobacter sakazakii	Method No: MOH K03-115
	Enterobacter sakazakii	ISO 16654:2001 (E) -" Horizontal
	E. coli 0157	method for the detection of Escherichia coli 0157
	E. coli 0157	Method No: MOH
	Coagulase positive staphylococci	ISO 6888-1:1999/Amd.1:2003 (E)
	Coagulase positive staphylococci	Method No: MOH K03-105 (1)
	Vibrio Species other than cholerae	other than Vibrio parahaemolyticus
	Vibrio Species other than cholerae	and Vibrio cholera
	Vibrio Species other than cholerae	Method No: MOH K03-111 (2)
	Vibrio Species other than cholerae	ISO 10272 -" 1: 2006 (E)
	Vibrio Species other than cholerae	Horizontal
	Vibrio Species other than cholerae	Method for Detection and

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Camphylobacter spp	Enumeration of Camphylobacter spp. -" Part 1: Detection Method
	Camphylobacter spp	Method No: MOH (1)
	Camphylobacter spp	ISO 11290-2: 1998 / Amd. 1:2004 (E)
	Camphylobacter spp	Horizontal Method for Detection and
	Camphylobacter spp	Enumeration of Listeria
	Listeria monocytogenes	Monocytogenes Part 2 = Enumeration Method, Amendment 1 :
	Listeria monocytogenes	Modification of enumeration Medium
	Listeria monocytogenes	Method No: MOH (1)
	Boric Acid	E03-003 The Determination of
	Water soluble synthetic food	Water Soluble Synthetic Food
	colour (see Appendix I)	Colour in Food by Paper
	colour (see Appendix I)	Chromatography and UV/ V15
	colour (see Appendix I)	spectrophotometer
	colour (see Appendix I)	In -" House Method, Ref. No. MOH
	Total Plate Count (TPC)	FDA Food and Drug =
	Determination of Boric acid in Food	FQL-TM-FA205 In-House Method
	by UV-Vis Spectrophotometer	based International Food on
	by UV-Vis Spectrophotometer	Research Journal 17: 1107-1112
	by UV-Vis Spectrophotometer	(2010)
	Total Plate Count in Food by	AOAC Official Method 990.12
	using 3M Petrifilm Aerobic Count	None
	Plate	None
	Enumeration of Escherichia Coli	AOAC Official Method 991.14
	in Food by using 3M Petrifilm	None
	Escherichia Coli/Coliform Count	None
	Plates	None
	Enumeration of Coliform in Food	AOAC Official Method 991.14
	by using 3M Petrifilm Escherichia	None
	Coli/Coliform Count Plates	None
	Enumeration of Staphylococcus	AOAC Official Method 2003.07
	Aureus in Food by using 3M	None
	Petrifilm Staph Express Count	None
	Plates	None
	Detection of Bacillus Cereus in	Compact Dry -œNissui-• Bacillus
	Food	Cereus
	Detection of Salmonella in Food	Bacteriological Analytical Manual,
	Detection of Salmonella in Food	Chapter 5, Salmonella
	Detection of Salmonella in Food	AOAC Official Method of Analysis
	by using 3M Petrifilm Salmonella	2014.1
	Express System	None
	Salmonella spp.	ISO 6579-1:2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Analysis of Organophosphorus Method: AOAC 2007.01	Analysis of Organophosphorus
	Analysis of Organophosphorus	
	Total Plate Count (TPC)	FDA Food and Drug =
	Aerobic Plate Count	AOAC Official Method 990.12 Aerobic
	Bacillus cereus	ISO 7932:2004 (E) Microbiology of Food
	Yeast and Mold	AOAC Official Method 2014.05
	Enumeration of	MOH Based on AOAC
	Enumeration of Mesophilic	MOH MMEF Part 4 Section
	Campylobacter spp	MOH (1): ISO 10272-
	Gram Negative Pathogens	In-house Method, Ref. No. MOH RO3-
	Boric Acid	In-house Method, Ref. No. MOH
	Water Soluble Colours	In-house Method, Ref. No. MOH
	Moisture	In-house Method Ref. No. MOH J03-
	Ash	MOH Determination Of Ash
	1) Antimoni	MOH The Determination of
	Water Activity	In-House Method MOH J03-049:
	Soluble Solid	In-House Method MOH J03-018:
	Mercury	In-House Method MOH H03-015:
	Acrylamide	In-House Method MOH NO3-015:
Food Meat & Meat Products Fish & Fish Products Milk & Milk Products Beverages & Soft Drinks	Total Plate Count (Aerobic Plate Count) Coliforms (Enumeration of the Coliform Bacteria)	FDA/BAM Chapter 3, Jan 2001 FDA/BAM Chapter 4, Sept 2002
Food Pouches	None	None
Food, Processed Food	Mercury	In-house Method SOP-0217-1018,
Fresh Fish	None	based on Romer-™s Elisa Method
Fried Fish	None	None
	Salmonella spp.	ISO 6579:2002
Frozen Crab Roll	None	Assay
Frozen Food	Vitamin D3 (cholecalciferol)	None
	None	None
	Standard Plate Count	AS 5013.1 -" 2004
	None	None
	None	None
	None	None
Frozen Mix Vegetable	Coliform and Escherichia Coli in	In-House Method, SOP-0117-1029
Fruit & Vegetable Product	None	None
Fruit Juice, Sauce, Soft	Benzoic Acid	In-house Method SOP-0217-1004,
	Benzoic Acid (Calculated as	In-house Method SOP-0217-1004 by
Fruit Juices	None	None

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	Citric Acid	033 Determination of Organic Acids in Food using High Performance
Ground Water	None	and APHA 3500 Cr B, Edition
	Acidity	APHA 2310 B, 2017
	None	None
	None	None
	None	None
	Bromate	S-170 & APHA 4110 B
	None	None
	Color (color units)	APHA 2120 C 2017
	Oil and Grease (Mineral)	APHA 5520 F, 2017
	Metals by Inductively Coupled Plasma	APHA 3120 B
	None	None
	Faecal Coliform	APHA 9222 D
	Lead	None
	None	None
	Endosulfan Hexachlorobenzene	None
	Cobalt	APHA 3120 B, Edition
	(Refer to Appendix 8 for the list of compounds)	Method 8260C: 2006
	BODs at 20°C	APHA 5210 B & G
	None	(Membrane Filtration Method)
	None	None
	None	None
Hand Sanitizer	None	None
	Ethanol	In-house Method C/PHA/031 based
Hard Capsule	None	None
Hard Capsule Oil Pill	Detection of Escherichia coli	BP 2020 Appendix XVI B 4.2 and Appendix F 2.4.2
Hemodialysis Water	On-site Sampling	SOP-0222-2002 ANSI/AAMI/ISO 23500: 2011
Hermetically Sealed Product	Total Anaerobic Count	In-house Method Based on
Honey	None	based on Romer-™s Elisa Method
	Chloramphenicol	In-house Method, Ref. No. MOH:
	Sulphonamide:	In-house Method, Ref. No. MOH:
	Macrolides: Erythromycin (ERY)	In-house Method, Ref. No. MOH
	Lincomycin (LINCO) Tylosin (TYL)	D03- 026. Based Agilent Tech. on Application Note. Pub. No. 5991 3190N.LCMS/MS.
	Chloramphenicol	In-house Method, Ref. No. MOH D03-
	Acidity	Honey, MAFF Validated Method V19, April 1992
	Fructose, Glucose, Sucrose, Maltose	AOAC 977.20, 2006

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	Amphenicols	In-house Method, Ref. No. MOH
Ice Cream	None	None
	None	None
Ice Cubes	None	None
Jam	Sodium Cyclamate	In-House Method SOP-0217-1023
Juices, Cocoa Powder, Corn	pH	In-house Method SOP-0217-1003
Juices, Soft Drinks, Spices	Sulphur Dioxide (Titration)	AOAC 990.28, Edition, 2005
Liquid Suspension, Tablet	Paracetamol	In-house Method SOP-0217-3003 by
Liquors	Citric Anhydrous, Tartaric Acid,	None
Meal Components	None	None
	None	None
	None	None
Meat & Meat Products, Bird	Nitrate, Nitrite	In-house Method SOP-0217-1014,
Meat & Meat Products, Fish	Arsenic	In-house Method SOP-0217-1017,
Meat & Poultry Products	None	None
Meat And Meat Product	None	None
	Listeria monocytogenes	In-house Method SOP-0117-1037
	Salmonella spp.	In-house Method SOP-0117-1036
	Escherichia coli 0157:H7	Romer Labs Rapidchek Test Kit for E. coli 0157:H7
Meat And Meat Products	Tetracycline	In-House Method SOP-0217-1021
	Moisture	AOAC 950.46
	Beta-agonist (B-agonist)	In-house method SGS-TM-FOOD-
	None	None
	Fat	In-house method, Ref. No. MOH:
	DNA Extraction	In-house Method, Ref. No. MOH G03-
Meat And Seafood	Chloramphenicol	In-House Method, SOP-0117-1022
	Nitrofurantoin AOZ	In-House Method SOP-0117-1023
	Beta Agonist Assay	In-House Method SOP-0117-1027
Medical Devices And	Bioburden Test	ISO 11737-1: 2016
	Method Suitability Test	ISO 11737-1:2006 & ISO 11737-
Mee Hoon	food using MC-Media Pad	based on AOAC 991.14
	Total Plate Count	AOAC OMA 990.12
Milk	None	None
	None	based on Romer-™s Elisa Method
	MC-Media Pad	based on AOAC 997.02
	Fat	AOAC 989.05
	Acidity	AOAC 947.05
	None	None
	Brucella spp.	In-house Method, Ref. No. MOH: K03-
Milk & Milk Products	Fat	In-house Method SOP-0217-1009
	None	None
	Aflatoxin M1	GB 5009.24-2016 (Method II)
	Lactose and sucrose	GB 5413.5-2010 (Method 1)
Milk And Dairy Products	None	None

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Milk And Milk Products	Sulfite-Reducing Clostridium	ISO 15213-1: 2023
	Oxytetracycline	None
	Enterobacter sakazakii	ISO/TS 22964:2006(E) IDF/RM 210 :
	Fat	In-house method Ref. No. MOH:
	Enterobacter sakazakii	ISO/TS 22964:2006 (E)
Milk Frozen Mix Vegetable	None	Millipore MC Media Pad Rapid Aerobic Count
Milk Powder	None	Assay
	Total Arsenic	In-House Method Ref. No. MOH
	None	None
Minced Meat	None	None
Mineral Water	Hexavalent Chromium	APHA 3500 Cr B, Edition
	Chloride	APHA 4500-Cl B, Edition
	Fluoride as F	Ion Chromatography with Chemical
	None	None
	(Monochloramine and	None
	None	None
	None	None
	Alkalinity	APHA 2320 B, 2017
	Free Carbon Dioxide	APHA 4500-CO ₂ C, 2017
	Sodium (Na)	APHA 3120 B 2017
	None	None
	None	None
	Dieldrin	None
	None	None
	None	None
	None	None
	None	None
	Aluminum as Al	None
Mineral Water E	None	None
	Aldrin Dieldrin	None
Multi-component Foods Or	None	None
Multi-components Foods Or	None	None
Multi-compound Foods Or	None	None
Nangka	None	None
Nest	None	based on HACH Method 8039, 2008,
	None	E03-026: Determination of Nitrite
Noodle & Noodle Products	Boric acid	AOAC 970.33, 18th Edition 2005
Nuts	Total Aflatoxin (B1, B2, G1, G2)	In-House Method SOP-0117-1034
Nuts & Nuts Products	None	None
Oatmeal	Fecal Coliform in food	FDA/BAM Chapter 4: Section One;
	Total Plate Count (Aerobic Plate	FDA/BAM Chapter 3, Jan 2001
Oil	None	None
	Identification of Plastic Residue	MOH MO03-003: Detection of Plastic

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Oil & Fats	FFA	AOCS Ac5-41, 1999
Ointment	Detection of Pseudomonas	BP 2020 Appendix XVI B 4.4
Ointment Cream	Cortisone	None
Ointments	None	None
Oyster Sauce	None	based on Romer-™s Lateral Flow
Peanut Butter	None	based on Ridascreeen Fast Aflatoxin
	Yeast and mould in food using	In-House Method SOP-0117-1016
	Total Plate Count	In-house Method Based on Merck BP 2012, Appendix XVI B
Pharmaceutical & Cosmetic Products	Bile-tolerant Gram Negative Bacteria	BP 2012, Appendix XVI B
Pharmaceutical And Traditional Herbal Products	Bile-tolerant Gram-Negative Bacteria Count	BP 2020 Appendix XVI B 4.1 and Appendix F 2.4.1
Pharmaceutical Products	Arsenic	In-house Method SOP-0217-1017,
Pharmaceutical Products &	Prednisone	In-house Method SOP-0217-1027 by
Pharmaceutical Samples	Total Aerobic Microbial Count	Appendix XVI B.2, Harmonized Method, BP 2011
	Detection of Clostridia & Semi-	BP 2022 Microbiological
	Total Aerobic Microbial Count	BP 2022 Appendix XVII B
Pharmaceutical Tablet	Dexamethasone	None
Pill	Betamethasone	In-House Method SOP-0217-1027
Pills	None	None
Portable & Domestic Water	Free Chlorine as Cl ₂	APHA 4500-Cl G, 21st Edition 2005
Portable Water	None	None
	None	None
	Coliforms and Escherichia coli - Most Probable Number (MPN) Method	AS 1766.2.3 of Australian Standard? Food Microbiology : Examination for specific organisms - Coliforms and Escherichia coli
	None	ISO 9308-1:2014(E)
Potable Water	Sulphate as	None
	None	None
	None	Based on Merck Chromocult
	Metal Analysis by ICP-OES	None
	None	None
	None	None
	None	None
	None	None
	Mercury (Hg)	In House Method 0556 based on
	None	None
	Chromium	None
	None	None
	None	None
	None	AS/NZS 1766.2.9 ? 1997 of Australian/New Zealand Standard?

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Potable Water, Tap Water,	None	None
Powder, Corn Flour, Spices,	None	None
Process Meat	None	None
Processed Food	Colouring	In-house Method SOP-0217-1006
	Vitamin A acetate	In-House Method SOP-0217-1028
	Detection	gallus domesticus (Chicken) DNA In
	None	G03-245(1)-Detection of Bovine
Products	Mercury	In-house Method SOP-0217-1018,
	None	UHPLC
	None	UHPLC
	Ash	In-house Method 0510 based on
	None	AOAC 964.21
	None	None
	None	Edition, 1978
	None	None
	None	None
	None	2:2009
	Bioburden Estimation	ISO 11737-1:2006
	Sterility Test	ISO 11737-2:2009
	Endotoxin in Medical Devices	USP 29' Edition (LAL Gel Clot
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Bend Performance	Clause 7.2.4 e
	Lithium, Li Vanadium,V	001 with reference to USP 39 and USP 40
	None	nicotinic acid and nicotinamide in
	None	None
	phthalate, DIBP	None
	Dibutyl phthalate, DBP	006, with reference to ISO 8124-
	None	None
	None	None
	None	L03-007-Determination of Aflatoxin
	None	G03-123(1)-Detection of Maize in
	None	G03-143(1)-Detection of Event-Specific

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	None	G03-143(2)-Detection of Event-Specific
	None	G03-143(3)-Detection of Event-Specific
	None	G03-143(5)-Detection of Event-Specific
	None	G03-143(4)-Detection of Event-Specific
	NoneNone	None
	None	
	None	None
	Ultimate Tensile Strength e	(ref no: QA/METAL/05)
	None	None
	Monosodium Glutamate	F024 by HPLC Fluorescence
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aerobic Plate Count	None
	Total Coliform Count	FDA-BAM, Ed, Chap 4
	Fecal Coliform	None
	Salmonella spp.	FDA-BAM, Ed, Chap 5
	- Sulphate	BS 1377, 1990-Part 3 Section 5
	- pH Value	BS 1377, 1990-Part 3 Section 9
	- Loss on Ignition	BS 1377, 1990-Part 3 Section 4
	Average Grain Size Measurement	Method)
	- Rockwell Method	ASTM E18: 20
	Break Test (Filled Weld)	None
	Properties Measured /	Method/
	Total Plate Count	Plating
	Coliform	Determination of Coliform & E.coli
	Escherichia Coli	(Pour Plate Method) - AOAC
	Escherichia Coli	performance tested. Certificate no.
	Escherichia Coli	020902
	Coliform	AOAC 998.08. Edition,
	Escherichia Coli (Petrifilm)	2019/Petrifilm
	Staphylococcus Aureus (Petrifilm)	AOAC 2003.11. 21% Edition,
	Staphylococcus Aureus (Petrifilm)	2019/Petrifilm
	Salmonella (Petrifilm)	AOAC 2014.01. 21% Edition,
	Salmonella	2019/Petrifilm
	(Alpha Tocopherol, Alpha Tocotrienol,	FDA BAM Chapter 5. 2020;
	Beta Tocotrienol, Gamma Tocotrienol,	70, No. 12, December 1993/HPLC
	Delta Tocotrienol)	None
		None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Phytosterols Content	EvTM_0008/HPLC
	(Sitosterol, Stigmasterol)	None
	Plant Squalene	EvTM_0007/HPLC
	Solvent Residue	EvTM_0005/GC Headspace
	(Hexane, Ethyl Acetate, Methanol,	None
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Benzo A Pyrene	EvTM_0004, Based on AOCS Cd
	Benzo A Pyrene	21 - 91, 5 th Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Mixed Carotene	None
	Mixed Carotene	EvTM_0150/HPLC
	Solvent Residue	EvTM_0151/GC-HS
	(Hexane, Ethyl Acetate, Methanol,	None
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	None	None
	2,6-Di-Tert-Butyl Hydroxytoluene	EvTM_0049/GC
	Tocotrienol, Beta Tocotrienol,	1993/HPLC
	Gamma Tocotrienol, Delta	None
	Tocotrienol)	None
	Benzo A Pyrene	EvTM_0114, Based on AOCS Cd
		21-91, 5 th Edition (2003)
	Mixed Carotene	EvTM_0115/HPLC
	Mixed Carotene	EvTM_0116/UV-VIS
	Lycopene Content	EvTM_0118/UV-VIS
	Plant Squalene	EvTM_0124/HPLC
	Phytosterols Content (Sitosterol,	EvTM_0125/HPLC
	Stigmasterol)	
	Solvent Residue (Hexane, Ethyl	EvTM_0126/GC HS
	Acetate, Methanol,	
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds	BP 2020/Volume
	Count	XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative	BP 2020/Volume
	Bacteria	XVI B
	Detection of Specific	BP 2020/Volume
	Microorganism	
	Pseudomonas aeruginosa	IV/Appendix XVI B
	Staphylococcus aureus	None

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	Escherichia coli	None
	Salmonella spp	None
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds Count	BP 2020/Volume XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative Bacteria	BP 2020/Volume XVI B
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	None	spp. by Real-Time PCR (qPCR) -" SYBR
	None	None
	None	in Soybean by real-Time PCR (qPCR)
	None	DNA (Universal Plant) by Real-Time
	Free Fatty Acids	None
	Moisture and Volatile Matter Hot Plate Method	AOCS Ca 2b-38 (1997)
	Insoluble Impurities	None
	Iodine Value of Fats and Oils	AOCS Ca 3a-46 (1997)
	Cyclohexane-Acetic Acid Method	None
	Slip Melting Point	AOCS Cd 1d-92 (1997)
	AOCS Standard Open Tube Melting Point	None
	Color	AOCS Cc 3-25 (1997)
Products, Confectionary,	None	AOCS Cc (1997)
Ramen	None	None
Raw Beef	None	Assay
Raw Chicken	None	None
Raw Pork	None	None
Recreational Water	None	None
Renal Dialysis Water	Coliform Agar acc. ISO 9308-1:2014	None
	Nitrite as	None
	None	None
	Total Viable Microbial Count	APHA 9215 B, 21% Edition
Renal Dialysis Water,	None	None
	Temperature	APHA 2550 B, Edition
Renal Dialysis Water, Potable Water, Tap Water, Drinking Water Domestic Water	Al Sb Ba Be	APHA 3125 B 21* Edition
Reverse Osmosis Water	None	None

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	Free, Combined and Total Residual Chlorine (DPD)	In-House Method 0501 based on Palintest Comparator
	Total Alkalinity as CaCO ₃	APHA 2320 B
	None	None
	Copper Barium	APHA 3125 B (ICP-MS), 24" Edition
	None	APHA 4500 OG
	None	APHA 9222
	Streptococcus Count	(Membrane Filtration Method)
River Water	None	None
	Uranium (U)	In House Method 0582 based on
	Oil and Grease (Emulsified)	APHA 5520 B & F, 2017
	None	None
	Total Phosphorus	USEPA Method 200.7
	Total Phosphate	USEPA Method 200.7
	None	None
	Enumeration of Escherichia coli	APHA 9221 G
	Standard Total Coliform	APHA 9222 B
	Colour (ADMI)	APHA 2120 F, 24" Edition
	Petroleum Hydrocarbon (C6-C10)	In-house method SGS-TM-ENVI-S- 001 (Solvent Extraction / Purge-and- Trap GC-MS)
	None	018 based on APHA 9222 B (Membrane Filtration)
	Sulphite -" Reducing Anaerobes	ISO 6461/2:1986 (Membrane
	Total Coliform Count	APHA 9222 B
	Total Dissolved Solid	APHA 2540 C
	Barium as Ba	None
	None	None
	None	None
Ro Water	Dichloramine)	None
	Total Viable Microbial Count	ISO 23500: 2014
	Total Viable Microbial Count	AAMI/ANSI 13959: 2014
	None	None
	None	APHA 9222 D (Membrane Filtration),
Salt & Salt Products	Iodine	In-House Method SOP-0217-1044
Sauce	None	MS 952: 2012
	None	None
Sauces, Herbs &	None	None
Sauces, Honey, Juices,	Acidity (as Malic Acid, Oxalic	In-house Method SOP-0217-1042 by
Seafood & Seafood Products	None	None
Shampoo	Salmonella in Pharmaceutical	British Pharmacopoeia 2012,
Soft Capsule	None	None
Soft Drink, Juices & Tea Leaf	None	UHPLC
Soil	Arsenic, Mercury, Cadmium,	EPA 3050 B
	Loss on Ignition	BS 1377 part 3: 1990 (Clause 4)

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	Carbonate	BS 1377 Part 3: 1990 (Clause 6.3)
	Moisture Content	BS 1377-1: 2016
	In-situ California Bearing Ratio (CBR)	BS 1377 : Part 9 : 1990 Clause 4.3
	Moisture Content	BS 1377-1: 2016
	In-situ California Bearing Ratio (CBR)	BS 1377 : Part 9 : 1990 Clause 4.3
	pH Value	BS 1377-3:1990:9.5
	None	None
	Aluminum (Al)	USEPA 200.2, Revision 2.8, 1994
	Particle Size Distribution (gravel, Determination of Particle Size Distribution for Soils)	In House Method 0588 based on BS 1377: Part 2: 1990 Clause 9
	Determination of Moisture Content	BS 1377: Part 2: 1990 Clause 3.2
	Determination of the Liquid Limit (Casagrande apparatus method)	BS 1377: Part 2: 1990 Clause 4.5
	Determination of the Plastic Limit and Plasticity Index	BS 1377: Part 2: 1990 Clause 5
	Determination of dry density/moisture content relationship (Rammer Method)	BS 1377: Part 4: 1990 Clause 3.3, 3.4, 3.5 & 3.6
	Determination of dry density/moisture content relationship (Vibrating Hammer Method)	BS 1377: Part 4: 1990 Clause 3.7
	Determination of soil density test	BS 1377: Part 2: 1990 Clause 7
	Determination of The Moisture	BS 1377: Part 2:1990: Method 3.2
	Determination of In-Situ Density	BS 1377: Part 9: 1990
	Determination of The Moisture	BS 1377: Part 2:1990: Method 3.2
	Toxicity characteristic leaching	USEPA 1311: 1992
	Phosphorus, P Sulphur, S	None
	SVOCs (Refer to Appendix 2 and 3 for	EPA Method 3510C: 1996
	Determination of Moisture Content	BS 1377:2:1990, Clause 3.2 MS 1056:2:2005, Clause 4.2
	Determination of Density	BS 1377:2:1990, Clause 7.2 MS 1056:2:2005, Clause 8.2
	Linear Shrinkage	BS 1377:2:1990, Clause 6.5 MS 1056:2:2005, Clause 7.5
	Determination of Particle Density	BS 1377:2:1990, Clause 8.3 MS 1056:2:2005, Clause 9.3
	Determination of Liquid Limit Using Casagrande Method	BS 1377:2:1990, Clause 4.5 & 4.6 MS 1056:2:2005, Clause 5.5 & 5.6
	Determination of Liquid Limit Using Cone Penetrometer Method	BS 1377:2:1990, Clause 4.3 & 4.4 MS 1056:2:2005, Clause 5.3 & 5.4
	Determination of the Plastic Limit	BS 1377:2:1990, Clause 5
	Maximum dry density / Moisture content relationship	BS 1377: Part 4: 1990

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	Shear Strength Test without	None
	The laboratory Vane e	BS 1377: Part 7: 1990: Clause 3
	Field Density Test (Sand Replacement Method)	BS 1377: Part 9:1990 Clause 2.1
	Plastic limit test	Test instruction reference to BS
	Moisture content	BS1377-2, Clause 4.1
Soil And Ground Water	pH	BS 1377 part 3: 1990 (Clause 9)
Soy Sauce	None	None
Soy Sauce Seasoning Powder	None	Edition, 2005 AOAC Method 937.09, 18 Edition, 2005 & MS 807:1983
Spices, Cocoa Powder, Corn	Moisture	In-house Method SOP-0217-1002
Squid	None	by UHPLC
Sugar Products	None	by UHPLC
Surface	Coliform TPC	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, Edition, 2015
	Selenium	APHA 3114C
Surface Swab By Sponge Contact (of Non-animal Derived Material)	Total Plate Count Coliform Count Escherichia coli Count	Compendium of Methods for the Microbiology Examination of Foods, Chapter 3, Ed, 2015
Surface Swab By Swab	Staphylococcus aureus	Compendium of Methods for the
Swimming Pool Water	Bromide as Br	None
	Resistivity	In-house Method SOP-0217-2036
	Total Chlorine as Cl2	APHA 4500-Cl G, 21st Edition 2005
	Biochemical Oxygen Demand @ 20 °C	APHA 5210 B
	None	None
	None	None
	None	None
	None	None
	None	None
Syrup	None	by UHPLC
	Hydrocortisone	None
Syrup Concentrated E	None	None
Tablet	None	None
	Total Yeast Mould Count	Appendix F1
Tablet Soft Capsule	Detection of Candida albicans	BP 2020 Appendix XVI B 4.7
Tablet)	None	None
Tap Water	Total Chromium	APHA 3111 B, Edition
	None	None
	None	In-house Method SOP-0217-2031 by
	Anions:	APHA 4110 B, 21% Edition
	Total Solids	APHA 2540 B, Edition
	None	None
	Coliform	In-house Method SOP-0117-2013

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Tea & Tea Products, Coffee	Caffeine	In-house Method SOP-0217-1005,
Tea, White Bread,	None	None
Teabag	None	None
	Escherichia Coli)	None
Tomato	None	None
Tomatoes	None	None
Tongkat Ali	None	None
Traditional Herbal Products	None	UHPLC
	Total Aerobic Microbial Count	BP2020, Appendix XVI B2 and
Traditional Product	Betamethasone 17-valerate	by UHPLC
Vacuum Packed Food	Thermophilic Bacteria Count	Compendium of Methods for the
Vegetables	None	None
	None	None
	None	None
	Dithiocarbamates, expressed as	In-house method, Ref. No. MOH:
	Organophosphorus Pesticide	In-house method, ARL-TTM-001,
Vegetarian Chicken	None	None
	Allergen of Crustacea	In-House Method SOP-0117-1017
Vinegar, Milk, Cordials And	Acid, Citric Acid Monohydrate,	titration
Waste Water	Nitrate	APHA 4500 NOs 21° Edition
	None	(by Calculation)
	Formaldehyde	UHPLC based on EPA 1667 Rev. A
	None	APHA 3030 E & APHA 3030 F, 21%
	None	None
	None	None
	None	None
	liquor (MLSS)	None
	liquor (MLSS)	None
Waste Water & Soil	Arsenic	APHA 3114 C, 215 Edition
Wastewater	None	based on APHA 2510 B, Edition
	Boron	APHA 3125 B, 21st Edition 2005
	pH	None
	Hexavalent Chromium	APHA 3500-Cr B
	Fixed and Volatile Solids	APHA 2540 G
	Digestion	None
	- on Metals	APHA 3030 E
	- on Metals	APHA 3030 F
	Metals Determination by Cold	None
	Vapour	None
	- Mercury	APHA 3112 B
	Cyanide	APHA 4500 CN- C & D
	Cyanide	APHA 4500 CN- C & E
Wastewater, Palm Oil	Total Kjeldahl Nitrogen	In-house Method SOP-0217-2037
Water	On-site Sampling & Testing (pH Temperature, Turbidity)	In-house Method SOP-0222-2001 & SOP-0222-2003
	Coliform	APHA 9221 B, Edition, 2005

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Heterotrophic plate count in	APHA Method 9215 D, Edition,
	None	None
	None	None
	pH Value	BS 1377-3 : 2018 Clause 12
	pH Value	BS 1377-3 : 2018 Clause 12
	None	None
	Calcium Hardness as CaCO ₃ ,	APHA 3500-Ca B, 2017
	Magnesium (by Calculation Method)	APHA 3500-Mg B, 2017
	Nitrate	APHA E, 2017
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aluminium	None
	None	None
	Organochlorine Pesticide	APHA 6630 B, Edition
	Ammoniacal Nitrogen	APHA F, 24" Edition
	Arsenic	APHA 3125 B, Edition
	Mercury	In-house method, SGS-TM-ENVI-003, based on APHA 3125 B
	2,4-dichlorophenoxyacetic acid (2,4-D)	In-house method, SGS-TM-02-045, based on Agilent Application Note 5991-5731 EN (LCMSMS)
	Heavy Metals by ICP-MS	None
	Endotoxin	Test for Bacterial Endotoxin, BP 2022
	pH	APHA 4500 H*B
	Oil & Grease	APHA 5520 B
	Color	APHA 2120 B
	Color	APHA 2120 F
	pH	APHA 4500 H* B
	Turbidity	APHA 2130 B
	Conductivity	APHA 2510 B
	None	None
	None	None
	None	None
	Escherichia coli and coliform	ISO 9308-1: 2014 (E) / Enumeration

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Pseudomonas aeruginosa	ISO 16266:2006 (E) / Detection and
	Ammonium nitrogen	BS 6068: Section 2.7:1984 ISO 5664:1984
	Chemical Oxygen Demand	BS 6068: Section 2.34:1988
	Suspended solids	BS 2690-Part 120:1981
	Dissolved solids	BS 2690-Part 121:1981
	None	ASTM D 523-82
	COD	APHA 5220 D
	None	None
	Free Chlorine	APHA' 4500 -" CI G
	Count	(Pour Plate, Spread Plate and
	Anaerobes (Clostridia)	BS 6068-4:9: 1993
	Gross Alpha & Gross Beta	None
	Arsenic as As	None
	Antimony as Sb	None
	Aluminium as Al	None
	Beryllium as Be	None
	Cadmium as Cd	None
	Chromium as Cr	None
	Lead as Pb	None
	Silver as Ag	None
	Selenium as Se	None
	Thallium as Tl	None
	Mercury as Hg	In-house Method LWI-MWE 037 based on APHA 3112 B by
	Mercury as Hg	Mercury Analyser
	Nitrate	In-house Method LWI-MWE 032 based on HACH Nitrate
	Nitrate	Test Comparator
	Sulfide	HACH Method 8131
	Chlorine, Free Residual	In-house Method LWI-MWE
	Chlorine, Free Residual	034 based on DPD-Palintest
	Chlorine, Free Residual	Test Comparator
	Total Chlorine	In-house Method LWI-MWE
	Total Chlorine	035 based on DPD-Palintest
	Total Chlorine	Test Comparator
	Colour (ADMI)	APHA 2120 F
	Heterotrophic Plate Count	None
	Pseudomonas aeruginosa	In-house Method LWI-MME (APHA) 007
	Pseudomonas aeruginosa	based on APHA 9213 E, 2020
	Escherichia coli and Coliform	Escherichia coli and Coliform Bacteria. Part 1: Membrane filtration
	Escherichia coli and Coliform	method
	Escherichia coli and Coliform	Method No: MOH (1)
	Escherichia coli and Coliform	ISO 29981 : 2010 (E), IDF 220 :

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Escherichia coli and Coliform	2010 (E) Milk Products -
	None	None
	None	None
	None	None
	None	None
Water Tap Water	Fecal Coliform	APHA 9221 E, Edition 2005
Water Tap Water Drinking Water	Sulphite Reducing Bacteria	ISO 6461-2:1986 (Membrane Filtration Technique)
Wheat Flour & Flour	Benzoyl Peroxide	In-house Method SOP-0217-1040 by
Wholemeal Bread	None	Part E: Sept 2002
Wholemeal Bread Tomato	Count)	None

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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