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LABORATORY LOCATION/ CENTRAL OFFICE:	NESTLE Manufacturing (M) Sdn Bhd Nestle Manufacturing Sdn Bhd No 1 (PT927), Seksyen 15 40200 Shah Alam , 40200, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	26 MARCH 2025
FIELD(S) OF TESTING:	CHEMICAL MICROBIOLOGICAL

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:	NESTLE Manufacturing (M) Sdn Bhd Nestle Manufacturing Sdn Bhd No 1 (PT927), Seksyen 15 40200 Shah Alam , 40200, 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
(fat Content < 2.0 G/100 G)	C-18:2 Linoleic Acid	None
(lettuce, Fresh And	None	None
(pastes And Dehydrated)	Anaerobic Bacteria and Spore	(Pour Plate)
Additional Extracts	None	None
All Food Products (finished	Enumeration of Coliform / E.coli	LI-00.738-3 (Petriilm)
All Food Stuffs	Coagulase-positive	1SO-6888-2: 2021 (Pour plate)
	Coagulase-positive	2003
All Food Stuffs With Aw 0.95	Yeast and Moulds Count	1SO-21527-2: 2008 (Spread plate)
All Food Stuffs With Aw > 0.95	Yeast and Moulds Count	1SO-21527-1: 2008 (Spread plate)
All Types Of Filterable Water	Sulfite reducing anaerobic	LI-10.114-2
All Types Of Water	Water quality -" Detection of	ISO 19250: 2010
And Cold Water, Water Used	None	(Membrane Filtration)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
And Finished Products	None	None
	None	None
And Finished Products)	Glucose	None
	fibre)	None
	None	None
	None	None
And Food Handling	None	None
	None	None
	None	amendment to the status of Annex D, and correction of the
	None	None
And Ground Coffee, Mixed	None	None
And Raw Materials (whey	Guanosine 5- TM -monophosphate (5- TM -GMP)	None
And Semi-finished Products /	mesophilic microorganisms	None
	perfringens	(Pour Plate)
And Vegetable Origins And	Plant sterols (bioavailable) /	None
And Vitamin-mineral	None	None
As Well As Product Containing	None	None
Aseptically Filled Products As	Sterility Testing by Direct	LI-00.957-02
Baby Food Products, Powder	None	None
Bars, Milk-based Raw	None	None
Based Product, Liquid,	None	None
Bathing Waters	None	None
Beverage And Fructan	None	(Modified)
Beverage, Vitamin Premixes	None	None
Beverages	None	None
	Vitamin E	None
	Phthalate Esters	GB/T 21911-2008 (GC-MS)
	None	None
	None	None
	None	None
	None	934.01 19" Edition 2012
	None	None
	None	Labeling, 1993 & Food Regulation
	e Antimony	Based on AOAC 999.11
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aerobic Plate Count	FDA-BAM Chapter 3 (Plate Count)
	None	None
	None	None
	None	None
	Alicyclobacillus spp.	Compendium of Microbiological
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	Determination of ethanol in	JKM 02/04
	Total Sugars	JKM K0616 -" Determination of Total
	pH	AOAC 945.10
	None	None
	None	None
	None	None
	None	None
	None	None
	Protein/Total Nitrogen	In-house Method SOP-0217-1031 by
	Total Dietary Fiber	AOAC 985.29
	Sorbic Acid	based on Journal of
	None	to 1-17 (HPLC)
	Ethanol	In-house method LWI-TEC-
	None	None
	Sorbic Acid in Food by Ultra High	based on AOAC Official Method
	Performance Liquid	983.16, Benzoic Acid and Sorbic
	Chromatography	
	Performance Liquid	Acid in Food, AOAC International,
	Chromatography	
	Performance Liquid	2005
	Chromatography	
	Determination of caffeine in Soft	In-house method FQL-TM-FA202
	Drink by Ultra High Performance	based on Ashoor et. Al. J. Assoc.
	Liquid Chromatography	Off. Anal. Chem. Vol.66, No.3,
	Liquid Chromatography	1983
Beverages With Cocoa,	None	None
Bottled Water, Well Water And	Rapid PA	(Membrane filtration)
Breakfast Cereals, Cereal	None	None
Breakfast Cereals, Health	None	None
Care Products, Soya Based,	Inositol	LI-00.684 (GC)
Cereal Based Products	Fatty acids composition	LI-00.514 (GC)
Cereal Based Products And	Fatty acids composition	LI-00.513 (GC)
Cereal Products, Instant	Galactose (Free)	LI-00.593-01 (HPAEC-PAD)
Cereal Products, Milk	Iodine	LI-00.849-2 (ICP MS)
Cereal, Infant Formula, Cocoa	Total Nitrogen and Protein	LI-00.557-2 (Combustion)
Cereals	None	None
Cereals And Pet-food)	None	None
Cereals, Soups, Juices,	None	None
Cocoa Based Beverages	None	LI-00.593-01 (HPAEC-PAD)
Cocoa Powders	None	None
Cocoa, Culinary Products)	None	None
Condensed Milks, Liquid And	None	None
Confectionary Products	Total Sugars	None
	None	None
Confectionary Products And	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Confectionary, Meat Product, Consumption And For The	None	None
	None	None
	acid bacteria -" colony count	(Pour Plate)
Consumption And For The Feeding	None	(Detection)
Consumption And For Treated	None	None
Containing Fruit Juices And For	None	(Membrane Filtration)
Containing Probiotic (dairy	None	(Spread Plate)
Culinary Products (e.g. Paste,	None	None
Culinary Products,	None	None
Culinary Products, Stocks,	None	None
Dairy Products And Infant	Amino acid profile	LI-00.594 (UPLC-UV)
Dairy Products, Cereals,	Total Nitrogen/Protein	LI-00.556-5
Dehydrated Fruits And	None	None
Drinking Water Treatment Plants	None	None
Drinking Water, Disinfected Pool	Enumeration of E. Coli and	ISO-9308-1: 2014/AMD1: 2016
Drinks	None	None
	Ethanol content	In-house Method [TM-008] based on papers in Journal of Chromatographic Science, vol. 47, pg. 272-278 (2009) and Amer. J.
	Sodium Saccharin	In-House Method SOP-0217-1022
Environmental Samples	Detection and enumeration of	ISO 21528-1: 2017
	None	69
	None	Vaccines for Terrestrial Animal (Ver.
	Salmonella spp.	AOAC OMA 2016.01 (3M-,,ç Molecular
	None	None
Environmental Samples In	None	None
	None	None
	None	and Vibrio vulnificus
Environmental Samples, Line	Moulds by Symphony Agar	None
	Rapid B. cereus Agar	None
Except Samples Containing	None	None
Feeding Animals, And	technique at 30°C	None
Feeding Of Animals And	None	None
Filterable Waters Which Cover	Enumeration of P.aeruginosa by	LI-10.222
Finished Products	Total Plant sterols / Cholesterol)	None
	1. Acid Value	AOCS Te 1A-64
	9. Determination of Melting Point	In-house ESL QPL A009
	None	on BS EN 14084:2003 and Perkin
	None	None
	yeast/moulds count	None
	Test for Specified Micro-	British Pharmacopoeia 2019:
	Staphylococcus aureus	None
	Candida albicans	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	based on Journal of AOAC International, Vol. 83, No. 4, 2000
Finished Products Samples	Compact Dry	None
Flavouring, Salts, Dry And Wet	None	None
Flour, Fruit And Berry	Sulfite (SO ₂)	AOAC-990.28
Food Products & Raw	Vitamin B12	AOAC-2014.02
Food Products (raw Materials)	Fructose	LI-00.544-04 (HPLC)
	Total carbohydrates (including Energy	LI-00.008-01 (By calculation) MYRL-99.201 (By calculation)
	Moisture	LI-00.500-04 (Oven method)
Food Products And Raw	Total Ash	LI-00.565-4
Foods : Cereal Products,	Enumeration of Probiotic	LI-00.794-02
Foods : Culinary Products	Enumeration of Sulfite-Reducing	ISO-15213: 2003
Foods : Finished Product /	Fatty acids composition	LI-00.511-2 (GC)
Foods : Finished Product And	Vitamin D3	LI-00.680-1 (HPLC)
Foods : Finished Products	Enumeration of Clostridium	ISO-7937: 2004
Foods: Finished Products	Enumeration of Aerobic	ISO-4833-1: 2013 (Pour Plate)
For Washing), For Human	None	None
Formula, Clinical Nutrition,	None	(UHPLC-UV)
Gos Ingredients	Galactooligosacharides (GOS)	LI-03.762 (HPAE)
Healthcare Nutritional	Vitamin D3 (Cholecalciferol)	None
Healthcare Products	None	(UPLC-MS/MS)
Include Tastemaker, Liquid	Sucrose (Free)	None
Infant Cereals And Cocoa	None	None
	None	(UHPLC-MS/MS)
Infant Cereals, Breakfast	None	None
Infant Formula And	Total Choline and total carnitine	AOAC-2015.10 First Action
Infant Formula And Milk	Fatty acids composition	ISO 16958: 2015
Infant Formula, Cereals And	Vitamin A	LI-00.681-04 (HPLC/UPLC)
Infant Formula, Infant Cereals,	Pantothenic Acid	ISO-20639: 2015 (UHPLC-MS/MS)
	Vitamin A (Retinol Equivalent)	LI-00.608 (By UHPSFC-MS/MS)
Infant Formula, Milk Powders,	Vitamin K	LI-00.682-4 (HPLC)
Infant Formulas Powder And	Adenosine 5- TM -monophosphate (5- TM -AMP)	AOAC 2011.21
Infant Formulas, Beverages,	Chloride/expressed as sodium	LI-00.580-3 (Titrimetry)
Ingredient, Dairy Products	None	None
Instant Coffee	Total ash	LI-21.007
Instant Coffee, Rtd Coffee	None	None
Liquid, Nucleotides Premix	Cytidine 5- TM -monophosphate	(UHPLC-MS/MS)
Low Level Of Product, Such As	None	None
Materials	None	None
	None	None
	None	(HPLC-UV or UHPLC-UV)
	None	None
	None	None
	None	None
	None	Based on:

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	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	based on MS 417: Part 2: 1994 (First
	Vickers Hardness 1 gf to 30 kgf (0.1 kgf and 1 kgf load)	E384-2017
	ii Lead (Pb)	None
	None	on BS EN 14084:2003
	None	based on MS 417: Part 3: 2020,
	None	Analysis: The Johan Kjeldahl
	None	based on MS 417: Part 3: 2020,
	None	N) Analysis: The Johan Kjeldahl
	None	based on MS 417 Part 7:2020,
	Fertilizers	None
	None	None
	Vickers Hardness 1 gf to 30 kgf (0.1 kgf and 1 kgf load)	E384-2017
	Volume Resistance or Resistivity	None
	None	ANSI/ESD STM 11.12-2015
	None	None
	None	Method)
	None	Based on MS 417: Part 2 : 1994
	None	1: Atomic Absorption
	None	Method)
	None	Based
	None	on MS 417-3: 2020, Clause 12,
	None	Based on MS 417-4: 2020, Clause
Materials And Healthcare	None	None
Meat Based Products	(See Appendix 1)	None
	DNA Extraction: Raw to Semi	In-house Test Method
Milk And Soy Based Infant	Vitamin C (ascorbic acid)	ISO 20635: 2018
Milk Powder, Cereal,	Total Fructans	AOAC 999.03
Milk Powders And Similar	Galactooligosacharides (GOS)	LI-08.089 (HPAE)
Milk Products And Pre-blend	Bacteria	(Pour Plate)
Milk Products, Infant Cereals,	Fat content	LI-00.070 (NMR)
Milk-based Infant Formula	Multi-vitamins (Vit. B1, B2, PP,	LI-00.610-01 (UPLC-MS/MS)
Milk-based Infant Formula,	Vitamin B9	AOAC 2013.13
Milk-based Products	Sterility testing by ATP	LI-06.083-01
Noodles, Culinary Products	Glucose (Free)	None
Of Animals, Environmental	None	None
Oil And Fats	Antioxidants	LI-03.414-2 (HPLC-PDA)
	Lead	JKM F 0512 In-house Method based

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	Acidity (FFA)	AOCS Ca 5a-40, 2017
	BHA	In-house Method, Ref. No. MOH:
Petfoods, Clinical Nutrition	None	None
Powder And Preblend)	None	None
Powder Beverages With	chloride	None
Powder Products	None	None
Powdered Beverages,	Maltotriose	None
	None	None
Powders	(See appendix 1)	None
	None	None
	None	None
Powders With/without Cocoa,	None	None
Powders, Milk Derivatives,	None	None
Powders, Raw Materials	None	None
Premixes	Vitamin E (Alpha Tocopherol	None
Premixes For Human Nutrition	None	None
Preparation	None	None
Probiotics	None	None
Process Water	None	None
Product (infant Formulae,	None	None
Production And Food Handling	None	None
Products	None	None
	None	None
	None	Detection)
	None	Labeling, Chapter 1, 1993
	None	None
	None	None
	None	None
	Maltose & Sucrose	Labeling Method No. 980.13
	None	6590EN & LCTECH SOP, using GC-
	Deoxinevalenol, Fumonisin B1,	Analytical Toxicology, 5:2, 2014, Pg.
	None	AS 5013.4-2009 (Pour Plate Method)
	None	None
	None	PBPK/BAC 02
	Dose	None
	None	D5865-10a
	None	None
	None	None
	None	None
	None	None
	None	None
	Disturbance power from cable	CISPR 16-2-2:2010
	Nickel	None
	None	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
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	campylobacter jejuni and C. coli)	None
	None	EN 61000-4-2:2009
	Electrical Fast Transient	IEC 61000-4-4:2012
	electromagnetic field immunity	EN IEC 61000-4-3:2020
	None	Based on Rapid Porcine Meat (Raw)
	None	Based on Gerhardt Dumatherm
	Gelatin/Collagen	HV/TM/BCLAB/005
	Fat/Oil	HV/TM/BCLAB/003
	None	and Analysis of Foods; 9' Edition,
	real-time PCR	In-house Method IHRAM-TM-101
	None	994.10 & AOAC 976.26, 17" Edition,
	None	950.35 17 Edition, 2000
	None	None
	Density	BP: Appendix V-A246 G. Density
	None	Determination of pH
	Weight per mL at 20-25 °C	BP Appendix V G Determination of
	Limit and method of measurements	ANSI C63.4:2014
	None	None
	Carbohydrate	In-House Method CLWI-TEC-F022
	None	Agrobot, Cluj 38 (1) 2010, 44-48
	None	None
	None	None
	None	None
	None	None
	None	None
	Copper	None
	Electronic Apparatus -" Safety Requirements	Except:
	Total Carbohydrate	Method of Analysis for Nutrition
	None	2005.Page 393-397
	None	None
	e	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Impurities	MPOB p2.2:2004
	Peroxide Value	MPOB p2.3:2004

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	Acidity/FFA	MPOB p2.5:2004
	Iodine Value	MPOB p3.2:2004
	Colour Lovibond	MPOB p4.1 Part 1:2004
	Slip Melting Point	MPOB p4.2:2004
	Anisidine value	MPOB p2.4:2004
	None	Specimen Clause 6.2 -" Rigid Tubes
	API Gravity of Crude Oils by	ASTM D5002
	Density, Relative Density of API	ASTM D4052
	Yield Strength	ASTM A370-21 (Section 7 to 14)
	None	on AOAC 925.45B
	None	None
	Butyric acid (C4:0)	None
	(cis)	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	on Mettler Toledo Ti-Note EasyPlus
	None	C (2008)
	None	None
	None	None
	Yeast & Mould	FDA-BAM Chapter 18 (Plate Count)
	None	None
	None	None
	None	None
	None	None
	Fat (Acid Hydrolysis)	n House Method TM/F-014 Based on
	Moisture	n House Method TM/F-004 Based on
	None	Examination of Foods, 4th Edition
	Vibrio parahaemolyticus	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Coliform	FDA-BAM Chapter 4 (2020)
	Fecal Coliform	FDA-BAM Chapter 4 (2020)
	None	None
	None	AOAC 991.14 (3M Petrifilm) (2002)

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	None	None
	Clostridium perfringens Count	FDA-BAM Chapter 16 (2001)
	None	None
	Dynamic Viscosity and Density and Fire Points by Cleveland	None
	Moisture Karl Fischer Reagent	ISO 8534 (M) / KF Volumeter (E) /
	Flash Point (Cleveland Open	ASTM D 92-90
	None	Gel-Clot Method
	None	None
	Test for absence of I	None
	None	None
	None	L03-004, Based on VICAM Zearala
	None	Spectrometry (WDXRF)
	in Fruit Juices and Related	onBrause et al., Journal of AOAC
	None	Lovibond Colour in Palm Oil and Palm
	None	(CTAB Protocol) based on
	None	Conventional Polymerase Chain
	None	(HPLC)
	None	None
	Violet	In-House No.FH 38
	None	None
	None	None
	Refer Appendix III	2007.01 (GCMSMS)
	None	None
	None	None
	-35S Promoter	Detection Using Real Time PCR
	None	None
	None	None
	None	968.28
	None	None
	None	None
	None	None
	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 th Edition (LAL Gel Clot
	None	None

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	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
	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

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	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
	Phytosterols Content	None
	(Sitosterol, Stigmasterol)	EvTM_0008/HPLC
	Plant Squalene	None
	Solvent Residue	EvTM_0007/HPLC
	(Hexane, Ethyl Acetate, Methanol,	EvTM_0005/GC Headspace
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Benzo A Pyrene	None
	Benzo A Pyrene	EvTM_0004, Based on AOCS Cd
	Moisture	21 - 91, 5 th Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
	Mixed Carotene	(2003)
	Mixed Carotene	None
	Solvent Residue	EvTM_0150/HPLC
	(Hexane, Ethyl Acetate, Methanol,	EvTM_0151/GC-HS
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	None
	Moisture	AOCS Ca 2e - 84, Edition
	None	(2003)
	2,6-Di-Tert-Butyl Hydroxytoluene	None
	Tocotrienol, Beta Tocotrienol,	EvTM_0049/GC
	Gamma Tocotrienol, Delta	1993/HPLC
		None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Tocotrienol)	None
	Benzo A Pyrene	EvTM_0114, Based on AOCS Cd 21-91, 5th 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, Stigmasterol)	EvTM_0125/HPLC
	Solvent Residue (Hexane, Ethyl Acetate, Methanol,	EvTM_0126/GC HS
	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
	Escherichia coli	None
	Salmonella spp	None
	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	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	AOCS Ca 2b-38 (1997)

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	Plate Method	None
	Insoluble Impurities	AOCS Ca 3a-46 (1997)
	Iodine Value of Fats and Oils	None
	Cyclohexane-Acetic Acid Method	AOCS Cd 1d-92 (1997)
	Slip Melting Point	None
	AOCS Standard Open Tube Melting Point	AOCS Cc 3-25 (1997)
	Color	AOCS Cc (1997)
Products (cereals, Milk, Products And Milk-based	P	None
Products And Raw Material	Lactose	None
Products And Raw Materials)	Contaminating microorganisms	LI-00.736-1
Products And Vitamin	None	None
Products Intended For Human	Vitamin D2 (Ergocalciferol)	None
	Detection of Salmonella spp	ISO 6579-1: 2017 / AMD 1:2020
	Detection of Cronobacter spp.	ISO 22964: 2017
	Enumeration of mesophilic lactic	ISO 15214: 1998
Products Samples	None	None
	iQ-Check	None
Products, Cereals, Culture	None	None
Products, Healthcare Product,	Be and Biotin)	None
Products, Liquid And	Maltose	None
Products, Raw Materials And	None	None
Proteins)	Inosine 5- TM -monophosphate (5- TM -IMP)	None
Pure Soluble Coffee, Roast	Caffeine	LI-20.020-2 (HPLC)
Raw Material And Finished	Total Tryptophan	LI-00.589-1 (HPLC-FLD)
Raw Material From Animal	Sterols (Total sterols / Total	LI-00.531-1 (GC)
Raw Material, Environmental	Salmonella	LI-00.746-02 Transia Plate
Raw Materials	None	None
	None	None
	Glucosamine	In-House Method, UN-
	Chondroitin Sulphate Sodium	USP 36 (pg 1400, 1485-1486)
	Melting point	USP WI-Q/189
Raw Materials And	None	None
Raw Materials And Finished	Na, K, Mg, Ca, Fe, Zn, Cu, Mn,	AOAC 2011.14:2013 (ICP-OES)
Raw Materials,	Enumeration of Yeasts and	LI-00.753 (Spread Plate)
	Enumeration of B. cereus by	LI-00.729 (Spread Plate)
Raw Materials, Environmental	Detection of Salmonella by	LI-00.759-01 (PCR)
	Detection of Listeria spp. /	LI-00.708-01 (PCR)
Raw Materials, Line And	Enumeration of TVC by Rapid	LI-00.762
Salmonella Isolates	Salmonella serotyping by PCR	LI-00.706
Samples And Pet Food	None	None
Samples In The Area Of Food	None	None
Samples Regardless Of Their	None	None
Samples, Line And Finished	None	Salmonella Gold (ELISA-
	iQ-Check	None
	Listeria monocytogenes by	None

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Sauce And Paste, Yogurt	Fructose (Free)	None
Semi-finished Product	None	None
Semi-finished Product / Raw	(See appendix 1)	None
Starches	None	None
Supplies And All Types Of	enumeration	None
Tastemaker And Seasoning)	None	None
The Area Of Food Production	None	None
	None	None
	None	None
Vegetables), Beverage,	None	None
Vitamin Premixes	None	None
	Vitamin A (retinol equivalent)	LI-03.701-3 (HPLC)
	None	None
Vitamin Premixes And	Vitamin B1, Vitamin B2, Vitamin	LI-.03.703-2 (UPLC)
Vitamin-mineral Premixes	B3 (PP), Vitamin BS	None
Water	None	None
	Pathogen	, , , APHA 9222A,
	None	None
	Temperature	APHA 2550 B
	Phosphorus	APHA 4500 P C
	Bromodichloromethane,	In-house Method, CL/WT/008 based
	Metals by ICP	APHA 3120 B
	Mercury	APHA 3112 B
	Chlorpyrifos	In-house Method, CL/WT/011,
	Aluminium	APHA 3125 B (ICP-MS)
	Gross Alpha, Gross Beta	ISO 11704:2018
	Heterotrophic Plate Count	APHA 9215 B (Pour Plate Method)
	pH	APHA - 4500-H B
	None	ASTM D 1293-18
	None	None
	None	None
	None	ASTM D 1293-18
	None	None
	Turbidity	APHA 2130 B
	pH	APHA 4500 H* B 23rd Edition
	Total solid dried at 103°C -" 105 °C	APHA 2540 B (2005)
	Enumeration of Plankton	Marine Water (PBPKL-STP-PP-1)
	None	APHA 4500 Norg B (2017) and
	None	USP Chapter Bacterial
	Coliform, Fecal Coliform &	APHA 9222 B.G.H.D
	None	APHA 3111 B, 2017
	None	APHA 3111 B, 2017
	None	None
	None	from HACH Method 8023, DR3900
	PH test	APHA 4500 H*B Edition 2017)
	Total suspended solids	APHA 2540 D Edition 2017)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Turbidity Test	APHA 2130 B Edition 2017)
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	MLSS	None
	Hydrocarbon, PAH	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Selenium (Se) Chromium (Cr)	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonical Nitrogen	APHA 4500-NH3
	None	None
	Lead	APHA 3120 B
	Tin	None
	Iron	None
	Heterotropic plate count	APHA 9215 D
	Standard total coliform	APHA 9222 B
	None	None
	None	None
	pH	APHA - B
	Escherichia coli and Coliform	ISO 9308-1:2014 (E) / Enumeration by
	Bisphenol A	In-house test method MKA TMO6 based
	Total Hardness	HACH Method 8226, 8" Edition, 2015
	Hardness by Calculation	APHA 2340 B & In-house test method
	Color	HACH Method 8025, Edition, 2014
	None	None
	None	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
	None	None
	None	None
	None	None
	Determination of pH	APHA 4500-H* B, 2005
	Determination of chloride	APHA 4500-CI B, 2005
	Determination of sulphate	APHA B, 2005
	Determination of alkalinity	APHA 2320 B, 2005
	Determination of total solids	APHA 2540 B, 2005
	pH	APHA 4500 H*B
	Color	APHA 2120 C (2017)
	Heterotrophic Plate Count	APHA 9215 B (2017)
	Standard Total Coliform	APHA 9221 B (2017)
	Escherichia coli	APHA 9221 F (2017)
	Examination for Legionella spp. pneumophila	AS/NZS 3896:2008 None
	Staphylococcus aureus count	APHA 9213 B (2017)
	Fecal Streptococcus	APHA 9230 C (2017)
	Pseudomonas aeruginosa	APHA 9213 F (2017)
	Identification of Escherichia coli	In-house Method GPS/QA/TM/001
	Identification of Shiga-toxicogenic	In-house Method GPS/QA/TM/004
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Ammonia	ASTM D1293
	None	None
	None	None
	None	None
	and Escherichia coli	None
	None	filtration)
	Clostridium perfringens	ISO 14189: 2013 (E)
	None	None
	None	None
	None	None
	None	(2005)
	None	21% Edition (2005)
	Colour	APHA 2120 C 2005
	Determination of Volatile	Method EPA 524.2 By Purge & Trap

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Oxygen Demand (COD) for High	APHA Method 5220D
	None	In-house Method JKM W 0502,
	None	on APHA 4110 B-"Ion
	Colony Count at 36°C	JKM M 2038, ISO 6222:1999 (E)
	Intestinal Enterococci	i) WI 16 -" Sample Preparation for
	Enumeration of Clostridium	JKM M 2035
	Detection of pathogenic	JKM B 0201 Detection of pathogenic
	Identification and Quantification	JKM B 0406
	pH	APHA - 4500-H B
	None	None
	None	None
	None	None
	None	None
	Boron	HACH METHOD 8015
	None	None
	E. coli	APHA 9221 F (MPN Method)
	None	None
	Total Organic Carbon	APHA 5310 C
	Heterotropic plate count	APHA 9215 B, 22"4 Edition (2012)
	None	(Membrane Filtration Technique)
	None	None
	Metals by ICP	None
	None	None
	None	None
	None	None
	None	None
	None	None
	pH	ASTM D 1293-2005 (Method B) APHA 4500 H* B 2005/2017
	pH	ASTM D1293-2005 (Method B) APHA 4500 H* B 2005/2017
	None	None
	Turbidity	APHA 2130B
	On-site Sampling & Testing (pH Temperature, Turbidity)	In-house Method SOP-0222-2001 & SOP-0222-2003
	Coliform	APHA 9221 B, Edition, 2005
	Heterotropic 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

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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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 :
	Escherichia coli and Coliform	2010 (E) Milk Products -
	None	None
	None	None
	None	None
	None	None
Water : Drinking Water	Culturable of Micro-organisms	ISO-6222: 1999 (Pour Plate)
Water Activity	None	None
Water Based Beverages	Total Aerobic Acidophilic Count	LI-10.224
Water For Human Use (hot	Enumeration of Legionella	ISO 11731: 2017
Water, Or Finished Water From	Coliform	(Membrane filtration)
Well As Retorted Ones	Streaking	(Direct Streaking)

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SCOPE OF TESTING : MICROBIOLOGICAL

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