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LABORATORY LOCATION/ CENTRAL OFFICE:	SGS (Malaysia) Sdn Bhd, Senai 60, Jalan i-Park SAC 6, Taman Perindustrian i-Park SAC, 81400 Senai, Johor , 42000, JOHOR MALAYSIA
	
ACCREDITED SINCE :	26 MARCH 2025
FIELD(S) OF TESTING:	CHEMICAL ELECTRICAL & MECHANICAL 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:	SGS (Malaysia) Sdn Bhd, Senai 60, Jalan i-Park SAC 6, Taman Perindustrian i-Park SAC, 81400 Senai, Johor , 42000, Johor
FIELD(S) OF TESTING :	CHEMICAL, ELECTRICAL, MICROBIOLOGICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
(consumer Products)	alkaline or other non-acid electrolytes -" Safety	None
	None	None
Components For E&e	Phthalates	In-house method SGS-TM-RSTS-O-
Components For E&e Products	Determination of Cadmium in plastics -" wet decomposition method	BS EN 1122, Method B (2001)
	Hexavalent Chromium	IEC 62321: 2008 (Annex C)
Palm Kernels	Oil Content	MPOB k1.3 (2004)
	Moisture and Volatile Matter	MPOB k1.2 (2004)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Palm Oil Products & Edible Oil	Shell & Dirt	MPOB k1.1 (2004)
	Fibre	MPOB k2.4 (2004)
	FFA	MPOB p2.5 (2004)
	Moisture & Volatile Matter	MPOB p2.1 Part 1 (2004)
	Colour	MPOB p4.1 (2004)
	Iodine Value	MPOB p3.2 (2004)
	Impurities	MPOB p2.2 (2004)
	Cloud Point	MPOB p4.3 (2004)
	Slip Melting Point	MPOB p4.2 (2004)
	DOBI	MPOB p2.9 (2004)
Palm Oil Products & Edible Oils	FFA	AOCS Ca 5a-40 (2017)
	Moisture & Volatile Matter	AOCS Ca 2c-25 (2017)
	Colour	AOCS Cc (2017)
	Iodine Value	AOCS Cd 1d-92 (2021)
	Insoluble Impurities	AOCS Ca 3a-46 (2021)
	Cloud Point	AOCS Cc 6-25 (2017)
	Slip Melting Point	AOCS Cc 3-25 (2017)
	Acid Value	AOCS Cd 3d-63 (2017)
	Peroxide Value, Acetic Acid, Method	AOCS Cd 8b-90 (2017)
	Saponification Value of Fats and Oils	AOCS Cd 3-25 (2017)
	Unsaponifiable Matter in Fats and Oils	AOCS Ca 6a-40 (2017)
	Refractive Index of Fats and Oils	AOCS Cc 7-25 (2017)
	p-Anisidine value	AOCS Cd 18-90 (2017)
	Heavy Metals (As, Cu, Fe, Ni, Pb)	In-house Method SGS-TM-AGRI-032 with reference to AOCS Ca 17-01
	Ash	MPOB p3.6 (2004)
Products	Dimethyl Phthalate (DMP)	003 with reference to IEC 62321-
	Enumeration of	AOAC Official Method 2003.07
	Aureus	None
	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

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	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
	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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	Impurities	MPOB p2.2:2004
	Peroxide Value	MPOB p2.3:2004
	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

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	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)
	None	None
	Clostridium perfringens Count	FDA-BAM Chapter 16 (2001)
	None	None
	Dynamic Viscosity and Density	None
	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

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

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	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" Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
		(2003)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Mixed Carotene	None
	Mixed Carotene	EvTM_0150/HPLC
	Solvent Residue	EvTM_0151/GC-HS
	(Hexane, Ethyl Acetate, Methanol, Isopropanol, Dichloromethane, Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition (2003)
	Moisture	None
	2,6-Di-Tert-Butyl Hydroxytoluene	EvTM_0049/GC
	Tocotrienol, Beta Tocotrienol, Gamma Tocotrienol, Delta Tocotrienol)	1993/HPLC
	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, Isopropanol, Dichloromethane, Ethanol)	EvTM_0126/GC HS
	Moisture	AOCS Ca 2e - 84, Edition (2003)
	Moisture	None
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds Count	BP 2020/Volume
	Coliform Count	XVI B
	Bile-Tolerant Gram-Negative Bacteria	FDA BAM Chapter 4, 2020
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	BP 2020/Volume
	Staphylococcus aureus	XVI B
	Escherichia coli	None
	Salmonella spp	None
	Total Aerobic Microbial Count	None
	Total Combined Yeasts/ Moulds Count	XVI B
	Coliform Count	BP 2020/Volume
	Bile-Tolerant Gram-Negative Bacteria	XVI B
	Detection of Specific Microorganism	FDA BAM Chapter 4, 2020
	Pseudomonas aeruginosa	BP 2020/Volume
		XVI B

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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	None
	Method	AOCS Cd 1d-92 (1997)
	Slip Melting Point	None
	AOCS Standard Open Tube	None
	Melting Point	AOCS Cc 3-25 (1997)
	Color	None
		AOCS Cc (1997)
Soap And Soap Noodles	Total Fatty Matter	MS 24:1971
	Moisture & Volatile Matter	AOCS Da 2a-48 (2017)
	Free Acid / Free Alkali in Soda	AOCS Da 4a-48 (2022)

SCOPE OF TESTING : ELECTRICAL & MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
(consumer	None	Tests and Criteria, Seventh (H28)
	secondary cells, and for batteries made from	
	secondary cells, and batteries made from them,	of Technical Standards for
	alkaline or other non-acid electrolytes -" Safety	None
Cells And Batteries	Safety of Lithium Metal and Lithium Ion Batteries	United Nations Manual of
	Safety requirements for portable sealed	JIS C 8712-2015, J62133
	Safety requirements for portable sealed	Ministerial Order to provide

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Products)	Secondary cells and batteries containing	IEC 62133-2:2017
	Secondary cells and batteries containing	JIS C 62133-2:2020
	Safety of Lithium Batteries	UL 1642:2020
	Altitude simulation	Revised Edition,
	them, for use in portable applications	None
	for use in portable applications	Electrical Appliances and
	requirements for portable sealed secondary	IEC 62133-2:2017/AMD1:2021
	IPA	None
	None	5994-2248EN, 2020 (LC-MS/MS)
	None	Page V-A494
	None	Sulphites calculated as Sulphur
	None	Ref : Official Methods of

SCOPE OF TESTING : MICROBIOLOGY

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Food Products	Aerobic Plate Count	BS EN ISO 4833-1:2013 (Pour Plate) AOAC 990.12; 986.33; 989.10 (Petrifilm Method)
	Coliform Count	BS ISO 4831:2006 (MPN)
	Energy Content as Calories	Method of Analysis for Nutrition
	Total Dietary Fiber	Method of Analysis for Nutrition
	Sulphur Dioxide	In-house method, CL/FD/005, based
	Nitroimidazoles	SN/T 1928-2007 (LC-MS/MS)
	Standard Plate Count	AS 5013.5:2016 (Pour Plate Method)
	Enterobacteriaceae Counts	AS 5013.8.2-2019 (Pour Plate
	None	None
	Cadmium	In-house method CCF-35 based on
	Mercury	In-house method CCF-36 based on
	pH	SO 1842:1991
	Escherichia coli (MPN)	FDA-BAM Chapter 4 (2020)
	Determination of Fatty Acid	JKM F1003 based on AOCS official
	Determination of Total Fat	In-house Method JKM F1213,
	Total Dietary Fibre	AOAC 985.29 (Enzymatic-

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Saccharin	In-House No. FH15 (Based on
	None	In-House No. FHO3 (Based on BSEN
	Nitrate as	In-House No. F90 GB5009.33-2010
	Metal	In-House No.F88 (Based on
	Vitamin D3 (Cholecalciferol)	In-House No.FL 02
	Total Aflatoxin	In-House No. M14 (Based on Direct
	Ochratoxin	In-House No. M17 (Based on Direct
	Vibrio cholera	In-house M54 Qualitative Detection using Real- Time PCR.
	None	based on USP 27
	None	In House Method MY/STP/369
	None	None
	None	None
	None	None
	None	011 Determination of
	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 Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
Medical Devices	Bioburden Test	ISO 11737-1:2018
	1. Ethylene Oxide	EN ISO 10993-7:2008
	process	None
	Determination of a population of	None
	Bacterial identification up to species level (Refer to Appendix A(i) & A(ii))	BD BBL Crystal Identification Gram Positive ID Kit & Gram Negative ID Kit (Enteric / Non Fermenter ID Kit) LWI
	Sterility Test	BP 2019, Vol. IV, Appendix XVI
	Ethylene Oxide Sterilization	In-House Method
	Sterility	USP 41 Microbiological Test
	Population Count	In-House Method
	Cytotoxic effect (in vitro)	MTT Assay (Annex C) based on ISO 10993-5:2009
	Intracutaneous reactivity of the skin (in vivo)	Animal Irritation Test by Intracutaneous (Intradermal) Administration ISO 10993-23:2021
	None	In-house Method [TM-500] Sterility

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	In-vitro Cytotoxicity Test	ISO 10993-5:2009,
	Systemic Toxicity	ISO 10993-11:2017 Edition
	Haemolysis Study of Medical	Biological evaluation of medical
	In Vitro Cytotoxicity Test	Direct Contact Cytotoxicity
	Cytotoxicity	ISO 10993-5 (2013): Biological
	Bioburden Test- Microbial	USP 43 ,
	Sterility Tests	USP 43 ,
	Estimation of Product Bioburden	None
Surface Monitoring	Endotoxin	Test for Bacterial Endotoxin, BP
	Aerobic Microbial Count	In-house Method, SGS-TM-MICR-068, based on ISO 14698-1:2003 (E) and USP 61 (Colony Count)
	Yeast and Mould Count	In-house Method, SGS-TM-MICR-070, based on ISO 14698-1:2003 (E) and USP 61 (Colony Count)
Water And Effluent	Heterotrophic Bacteria Count	APHA 9215 D (Membrane Filtration)
	Coliform Count	APHA 9222 B (Membrane Filtration)
	E. coli Count	APHA 9222 D (Membrane Filtration)

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