



CERTIFICATE OF ACCREDITATION

This is to attest that

NATIONAL LABORATORY & RESEARCH CENTER

P.O BOX 5013, FREE ZONE 2
FUJAIRAH, 5013, UNITED ARAB EMIRATES

Testing Laboratory TL-1167

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date July 12, 2023



A handwritten signature in black ink, reading "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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NATIONAL LABORATORY & RESEARCH CENTER

www.nlrc-ae.com

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Accredited to ISO/IEC 17025:2017

Effective Date July 12, 2023

Chemical, Microbiology and Physical		
Alcoholic and Non-Alcoholic Beverage, Carbonated Water, Energy Drinks, Agricultural Products, Fruit Juice & Food Products	In-House SOP-NLRC-AL-066	Determination of Ascorbic Acid
Alcoholic and Non-Alcoholic Beverages, Food Products, Carbonated Water, Energy Drinks, Agricultural and fruits products.	In-House SOP-NLRC-AL-061/AOAC 990.28,963.11, 990.31	Determination Of Sulphur Dioxide Content
Alcoholic and Non-Alcoholic Beverages, Carbonated Water, Energy Drinks, Fruits, Food Products, Juices, Agricultural, and Fruit Products.	In-House SOP-NLRC-AL-065	Determination Of Sulfur Dioxide (Sulfiting Agent)
Alcoholic and Non-Alcoholic Beverages, Food, Water, Energy Drinks, Fruit Juice & Food Products	In-House SOP-NLRC-AL-079	Determination Of Cyanocobalamin (Vitamin B12) in Beverage Products by UHPLC-MS/MS
Animal and vegetable fats and oils	ISO 18363	Determination of 3-MCPD and Glycidol in Edible Oils by GC/MS
Beverage & Food Products	In-House SOP-NLRC-AL-083	Determination of food additives and artificial sweeteners in beverage and food products by using UHPLC-DAD <ul style="list-style-type: none">• Benzoic Acid,• Sorbic Acid• Caffeine,• Ascorbic Acid• Citric Acid,• Acesulfame K• Saccharine,• Aspartame• Cyclamic acid
Beverage, Food, Honey Products	In-House SOP-NLRC-AL-051	Determination of HMF by UHPLC-DAD
Beverage, Food products & Dairy Products, Cosmetics, Household, and Personal Care Products.	In-House SOP-NLRC-AL-063 based on AOAC Official Method 935.57 and 950.15 and 942.15 and Mettler Toledo Application Notes	Determination of Total Acidity by End Point/Equivalence Point Potentiometric Titration

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Beverage Products, Carbonated water and Carbonated Products	In-House SOP-NLRC-AL-038, based on AOAC Official Method 988.07 and Application Note: M011, Mettler Toledo	Determination of carbon dioxide Content by potentiometric titration
Beverage (Sweetened and Non-Sweetened Beverages/Drinks/Food), Food, Tobacco products, Heated Tobacco Products & Electronic Nicotine Products, Cosmetics, and Personal Care Products, Dairy Products, Processed Agricultural and Meat Products.	In-House SOP-NLRC-AL-077	Determination of Total Sugar, Natural Sugar, Added Sugar and Glycerol Content by using UHPLC-RID <ol style="list-style-type: none"> 1. Glycerol 2. Fructose 3. Glucose 4. Sucrose 5. Maltose 6. Lactose 7. Total Sugar 8. Added Sugar 9. Natural Sugar
Beverages, Food Products, and Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products Cosmetics and Personal Care Products & Household Care Products	In-House SOP-NLRC-AL-084	Determination of Colorants Content In Various Matrices By Using UHPLC-DAD <ul style="list-style-type: none"> • Tartrazine (E102) • New Red • Amaranth (E123) • Indigo Carmine (Indigotine) (E132) • Ponceau 4RC (E124) • Sunset Yellow (E110) • Brilliant Black BN (E151) • Allura Red AC (E129) • Acid Red 2G (Acid Red 1) (E128) • Green S (Acid green 50) (E142) • Carmoisine (Azorubin) (E122) • Quinoline Yellow (E104) • Fast Green FCF (E143) • Brilliant Blue FCF (E133) • Erythrosin B disodium (E127) • Patent Blue V (E131)
Beverages, Water and Food Products	In-House SOP-NLRC-AL-090	Visual Inspection and Sensory Evaluation Test
Cereals and Pulses	ISO 6639-3	Determination of hidden insect infestation-Part 3 Reference Method
Chemical Depilatories	UAE.S GSO 1196:2002	Topical Test (Sensitivity Test)
Cigarette (Tobacco and Tobacco Products)	In house SOP-NLRC-CL-004	Apparent density of the cigarettes
	In-house SOP-NLRC-CL-015	Basic weight of wrapped paper of the cigarettes

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	ISO 2971:2013	Circumference of the cigarettes
	ISO 3550-1:1997	Loss of tobacco from cigarettes ends for Filter-tipped cigarettes on wet or dry weight
	ISO 4387:2019	Length of tobacco column for filter-tipped cigarettes
		Determination of Tar yield
		<ul style="list-style-type: none"> Determination of Total Particular Matter Determination of Butt Mark
	ISO 4387:2019 /ISO 8454:2007	Determination of Puff Number/Puff Count
	ISO 6565:2015	Draw resistance of cigarettes with filter (Pressure drop- Open & Close)
	ISO 8454:2007	Determination of Carbon Monoxide Yield
	ISO 9512:2019	Determination of Ventilation (Tip, Envelope, Total)
	ISO 10315:2021	Determination of Nicotine yield
ISO 10362-1,2	Determination of water in total particulate matter from the mainstream smoke	
Cigarette, Tobacco Products, Heated Tobacco Products	In House SOP-NLRC-CL-005	<ul style="list-style-type: none"> Weight of the cigarette Hardness (Middle Point) Diameter and Circumference of cigarettes Softness of the cigarettes Firmness of the Cigarettes Depressed diameter of the Cigarettes Depression of the Cigarettes Point of contact diameter of the Cigarettes
Cigarettes, Tobacco Products, Dokha, Molasses, Electronic Nicotine Products and Heated Tobacco Products, Nicotine Containing Products and Related Products	ISO 8243:2013/NLRC-WI-12	Sampling Of Cigarettes and Nicotine Containing Products and Related Products
Cosmetic Cosmetics & Personal Care Products / Nail Polish	In-House SOP-NLRC-AL-027/ UAE.S /GSO 1888:2009	Scratch Test
	In-House SOP-NLRC-AL-028/ UAE.S /GSO 1888:2009	Adhesion Test
	In-House SOP-NLRC-AL-029/ UAE.S /GSO 1888:2009	Blush Test
Cosmetics, Detergent, Household Care Products, and Personal Care Products	In-House SOP-NLRC-AL-015	Determination of 1,4-Dioxane in Cosmetics, Detergent, and Personal Care Products by using GC-MS/MS

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Cosmetics, Personal Care, Household Care Products and Detergents Products, e-liquid products.	In-House SOP-NLRC-AL-042	Determination of isothiazolinone biocides by UHPLC- MS/MS <ul style="list-style-type: none"> • MIT • CMIT • BIT
Cosmetics & Personal Care Products	Directive 80/1335/EEC (Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis.	Determination of zinc hydroxybenzenesulphonate content Determination of Silver Nitrate
	GSO 2239/2012 /ASTM D 1681	Detection of alkyl aryl sulphonates
	In-House SOP-NLRC-AL-026	Determination of Melting and Boiling Point by using Mettler Toledo MP80.
	In-House SOP-NLRC-AL-115/ ISO 15819:2014	Determination of Selected Nitrosamines By LC-MS/MS <ol style="list-style-type: none"> 1. N-Nitrosodiethanol Amine (NDELA) 2. N-Nitrosodiisopropanol Amine (NDIPLA)
Cosmetic and Personal Care Products -Chemical Depilatories	UAE.S GSO 1196 :2002	Determination of Sulphide Skin Irritation Test
		Content Of Matter Insoluble in Alcohol
Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap	In-House SOP-NLRC-AL-101	
	In-House SOP-NLRC-AL-134/ISO 2271/ISO 2871	Determination of Surface Active Agent (Total Active Ingredients/Active ion ingredient) Anionic-Non Ionic- Cationic Surfactant
Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap, Food, Beverage, Dairy Products	In-House SOP-NLRC-AL-124	Determination Of EDTA By LC-MS/MS
Cosmetics and Personal Care Products, Detergents, Soap, Disinfectants, and Household Care Products.	In-House SOP-NLRC-AL-034	Visual Tests and Sensory Evaluation
Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap, Food, Dairy Products, Agricultural Products, Feeds, Fertilizer Products and Beverage Products.	In-House SOP-NLRC-AL-113	Moisture & Volatile Matter, Non-Volatile Matter and Total Solids
Cosmetic and Personal Care Products -Facial Tissue - Paper	UAE.S GSO 143 :1991	Determination of Water Absorption
Cosmetic and Personal Care Products, Facial Tissue, Paper- Carton board, Textile Leather Products	UAE.S GSO 143:1991/ISO 13934,1,2,3/ISO 13937-1,2,3	Determination of MD/CD tensile strength and Tear Strength

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Cosmetics and Personal Care Products, Food Products & Edible Oils	In House NLRC-AL-008/ ISO 3960:2017 /ISO 27107:2008	Determination of Peroxide Value
	In House NLRC-AL-009/ ISO 3961:2013/AOAC official Method 993.20:1996	Determination of Iodine Value
Cosmetic and Personal Care Products -Hair Conditioners (Balsam)	UAE.S/GSO 2064:2010	Determination of Fatty Alcohol
Cosmetics and Personal Care Products, Hair Cream	UAE.S GSO 1155:2002	Determination of Total Non-Aqueous Content
Cosmetics And Personal Care Products, Household Care Products	In House SOP-NLRC-AL-011.Based on ISO 3961:2013 and AOAC Official Method 993.20:1996	Determination of Hydrogen Peroxide Content
	In-House SOP-NLRC-AL-100	Toxic Volatile Organic Compound in Cosmetics and Personal Care Products <ol style="list-style-type: none"> 1. 1,4-Dioxane 2. Benzene 3. Toluene 4. Chloroform
Cosmetics and Personal Care Products/Household care Products/Air fresheners	GSO 660:1997	Determination of Delivery Rate of Aerosol Product
		Flammability Test
	GSO 660:1997/ESS 8283	Hot Water Immersion Test
	GSO 660:1997/In-House SOP-NLRC-AL-137	Determination of Chlorofluorocarbon compounds
Cosmetics, Personal Care Products, Household Care Products & Detergents	In-House SOP-NLRC-AL-030 / UAE.S GSO 1948 & UAE.S GSO 1116/EAS 786/EAS 847	Thermal Stability and Stability Test
Cosmetics Products, Personal Care products, Household Care Products, Detergent products, Perfume Products, Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products, Beverage and Food Products.	In-House SOP-NLRC-AL-081	Determination Of Preservatives and Biocides In Various Matrices by using UHPLC-DAD <ul style="list-style-type: none"> • 4-Hydroxy Benzoic Acid • Methylisothiazolinone (MIT) • Salicylic Acid • Benzoic Acid • Methylchloroisothiazolinone (CMIT) • Sorbic Acid • 2-phenoxy ethanol • Dehydroxy acetic acid • Methyl paraben • Ethyl paraben

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		<ul style="list-style-type: none"> • Propyl paraben • Butyl paraben
Cosmetics, Perfume, Personal care, Household Care Products, Detergent, Soap, Disinfectants, Fertilizer, Beverage & Food products	In-House SOP-NLRC-AL-020 based on UAE.S/GSO 1153:2011, UAE.S GSO 1202:2002, UAE.S GSO 2239:2012, UAE.S GSO ISO 4316:1994, UAE.S GSO 691:1997, UAE.S GSO 427:2009, UAE.S/GSO 2064:2010, UAE.S GSO 395:2011, UAE.S GSO 2062:2010, UAE.S GSO 1155:2002, UAE.S GSO 1098:2002, UAE.S/GSO 2060:2010, UAE.S GSO 1196:2002, UAE.S GSO 875:1997, UAE.S GSO 1218:2002, GSO 2017:2010, UAE.S GSO 1947:2009, UAE.S GSO 2242:2012, UAE.S/GSO 1949:2010, UAE.S/GSO 2018:2010	Determination of pH Value by Using T9 Auto Titrator with pH Electrode
Cosmetics, Personal care, Detergents, Perfumes, food, and beverages, Electronic Nicotine Products, essential oil and Industrial solvents liquids.	In-House SOP-NLRC-AL-021 based on ASTM D 4052 – 96 (Reapproved 2002) and GSO 802 and UAE.S GSO 1209	Determination of Density, Specific Gravity & Brix content
Cosmetics, Personal Care, Household Care Products and Detergent Products, Heated Tobacco Products & Electronic Nicotine Products.	In-House SOP-NLRC-AL-039	Determination of free formaldehyde content by UHPLC-DAD
Cosmetics and Personal Care Products, Household Care Products, Detergent, Tobacco and tobacco products, e-liquid products, Food, Beverage, Industrial Products and Industrial Solvents, Fertilizer, Perfume Products	In-House SOP-NLRC-AL-025	Determination of Water Content by KF Volumetric Titration
Cosmetics And Personal Care Products, Household Care Products & Soap Products	In-House SOP-NLRC-AL-150 Determination of Selected Organic Compounds Content by HPLC	<ul style="list-style-type: none"> • Hydroquinone • Resorcinol • Phenylenediamine Compounds • Naphthol • Aminophenol Compounds

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Cosmetics and Personal Care Products /Household care Products and Surfactant	GSO1099/GSO1947	Determination of Biodegradability
Cosmetics and Personal Care Products, Household Care Products, Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test).	In-House SOP-NLRC-AL-089	Determination of Parabens Compounds in Various Matrices <ul style="list-style-type: none"> Paraben (4-Hydroxy Benzoic Acid)(PHBA) Methyl Paraben Ethyl Paraben Isopropyl Paraben Propyl Paraben Isobutyl Paraben Butyl Paraben Benzyl Paraben Heptyl Paraben
Cosmetic and Personal Care Products -Lipsticks	GSO 2019/2010	Breaking Load Test
Cosmetics & Personal Care Products, Lipstick slave	In-House SOP-NLRC-AL-022 based on UAE.S /GSO 2019:2010 and UAE.S /GSO 1896:2009 and ASTM D 2265	Determination of dropping and softening point by using Mettler Toledo dropping point system Dp70
Cosmetics and Personal Care Products/Household care Products/Liquid Glass Cleaner	UAE.S GSO 883:1997	Determination of the effect on Plastic Materials
		Determination of the Corrosion of metallic Surfaces
		Determination of the effect on hardness of the paint film
		Determination of Stability on Storage Performance Test (Cleaning efficiency)
Cosmetics and Personal Care Products/Household care Products/Liquid Glass Cleaner/Industrial Solvent and Oil.	UAE.S GSO 883:1997	Determination of the Flash Point
Cosmetics And Personal Care Products, Non-Aerosol Antiperspirants	Directive 80/1335/EEC (Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis	Determination of Zirconium, Aluminum, and Chlorine
Cosmetics and Personal Care Products, Oral Care Products	In House NLRC-AL-006. Based on Application Note M706, M707, M102 Mettler Toledo	Determination of Fluoride content
Cosmetics and Personal Care Products, Perfumery Products, Household Care Products. Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/	In House NLRC-AL-005/Based on International Fragrance Association (IFRA), Version 3, 12th September 2007, Bruker Application Note GC-MS 08 & GL Sciences	ALLERGENS <ul style="list-style-type: none"> Amyl cinnamyl alcohol Amyl cinnamal Anisyl alcohol Benzyl Benzoate Benzyl alcohol Benzyl cinnamate

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Electronic Nicotine Products) and Its Emissions test (Aerosols Test).	Application Note:113/ Afnor XP D90-300-2,3	<ul style="list-style-type: none"> • Benzyl salicylate • Cetone alpha (Alpha-Isomethyl ionone) • Cinnamaldehyde (Cinnamal) • Cinnamyl alcohol • b-Citronellol • Coumarin • Citral (Niral & Geranial) • D-Limonene • Eugenol • Farnesol • Geraniol • Hexylcinnamaldehyde • Hydroxycitronellal • Isoeugenol • Lilial • Linalool • Lyral • Methylheptyne carbonate • Evernia prunastri (oak moss) • Evernia furfuracea (tree moss)
Cosmetics and Personal Care Products, Petroleum Jelly	In-House SOP-NLRC-AL-086	Sulphur And Sulphides Test
Cosmetic and Personal Care Products -Vaseline (Petroleum Jelly)	GSO 1118/2002	Determination Of Consistency test and sulphated ash
Cosmetic and Personal Care Products-Shaving Soap	GSO 886/1997	Measurement of lather volume
Cosmetic and Personal Care Products -Skin Cream	GSO 1153/2010 /EAS 786:2013	Determination of Total Content of Fatty Substances (Fatty Matter)
	ISO 24444:2019	Determination of Sun Protection Factor (SPF)
Cosmetics, Personal Care Products & Soap	In-House SOP-NLRC-AL-102/Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis/Directive 95/32/EC	Determination of Hydroquinone and related compounds.
Cosmetics and Personal Care Products, Thioglycolic Acid Containing Products	In-House SOP-NLRC-AL-094	Determination of Thioglycolic Acid
Cosmetics and Personal Care Products, Urea Containing Products.	In-House SOP-NLRC-AL-062	Determination of urea content in cosmetics and personal care products by using UHPLC-DAD
Cosmetics and Personal Care Products, Water, Beverage, Food Products and Tobacco Products	In-House SOP-NLRC-AL-138 Determination of Selected Organic Compounds, Anti-	<ul style="list-style-type: none"> • Minoxidil • Zink pyrithione • Piroctone Olamine • Ketoconazole • Climbazole

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	dandruff Substances and UV filters, Alpha-Hydroxy Acid (AHAs) and Formaldehyde Releaser Preservatives	<ul style="list-style-type: none"> • Ciclopirox olamine • Octinoxate • Octisalate • Avobenzone • Oxybenzone • Homosalate • Octocrylene • Ensulizole • Benzophenone • P-Aminobenzoic acid • Sulisobenzene • Padimate O • 3-Benzylidenecamphor • 3-(4-Methylbenzylidene)Camphor • Oxalic Acid • Propionic acid • Citric Acid • Glycolic Acid • Malic Acid • Tartaric Acid • Boric Acid • Chlorophensin • DMDM Hydanation • ImidUrea • Diazolidinyl Urea • Qauternium-15 • Diporopylene glycol • Chlorhexidine • Chlorhexidine Digluconate • Catechol • Quinine • Octamethylcyclotetrasiloxane
Cosmetic and Personal Care Products -Wet wipes	UAE.S/GSO 2017:2010	Disposal of perfume test & Disposal of materials dissolved in water test.
Detergents & Disinfectants, Disinfected Water, Antiseptics and Related Disinfected Products	In-House SOP-NLRC-AL-031/ UAE.S /GSO 801	Available Chlorine As (Sodium Hypochlorite Content) In Detergents and Disinfectants
Detergent Products & Household Care Products	EAS 383	Inorganic Salts Content
Detergent Products, Soap Products, Cosmetics and Personal Care Products & Household Care Products	EAS 383	Determination Of Water Insoluble Matter
Detergents, Washing Powder & Household Care Products	In House SOP-NLRC-AL-010, Based on ASTM D 2180 – 89 & UAE. GSO ISO 4321:1994	Determination of Active Oxygen Content (Perborate Content)

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Disinfectants	In-House SOP-NLRC-AL-032/ UAE.S /GSO 875	Stability on Storage and Stability During Use for Phenolic Disinfectant Fluids
Drinking Potable Water, Bottled Water, Ice, Domestic Water, Potable and Non-Potable Water, Recreational Water, Pool Water, Irrigation Water, Cooling Water, Boiler Water, Wastewater, Raw Sewage and Treated Sewage, Sea Water and Marine Water (Fresh Water, Bilge Water, Ballast Water, Wastewater, Scrubber Water, Grey Water, Black Water, Boiler and Cooling System Water)	Hach Method, 8047	Determination of Total Phenols
	Hach Method, 8141	Determination of Hydrazine
	Hach Method, 10126	Determination of Chlorine Dioxide
	Hach Method, 10360	Determination of Dissolved Oxygen
	Hach Method, LCK325	Determination of Formaldehyde
	In-House SOP-NLRC-AL-035/APHA 4500 NO3 B	Determination Of Nitrogen Nitrate (NO ₃ -) in water by UV-Visible Spectrophotometer
	In-House SOP-NLRC-AL-040/APHA 2320 B/ EPA 310.1 / Application Note: M011 Mettler Toledo	Determination Of Alkalinity (as mg/L CaCO ₃) in water by using Auto Titrator.
	In-House SOP-NLRC-AL-041/ APHA 2340 C, GSO 641/1996 and IS 3025 (Part 21): 2009 (Titration)	Determination Of Total Hardness (mg/L As CaCO ₃) In Water By EDTA, Titrimetric Method
	In-House SOP-NLRC-AL-043/APHA 2320B/AOAC Official Method 920.194	Determination of Carbonates and Bicarbonates
	In-House SOP-NLRC-AL-044/APHA 2120 C Spectrophotometric-Single wavelength method	Determination of color of water by using uv-visible spectrophotometer
	In-House SOP-NLRC-AL-045/APHA method 4500-H+ B.	Determination of pH in water using pH meter
	In-House SOP-NLRC-AL-046/APHA METHOD 2540 B	Determination of total solids in water
	In-House SOP-NLRC-AL-047/APHA Method 2540 C.	Determination of Total Dissolved Solids
In-House SOP-NLRC-AL-048/APHA 2540 D	Determination of total suspended solids in water	
In-House SOP-NLRC-AL-049/APHA EPA 200.8/APHA 3120B APHA Method 3125 and AOAC 993.14	Estimation Of Trace Metals Content Using Microwave Digestion by ICP-MS. Total Metals and Dissolved Metals <ul style="list-style-type: none"> • Arsenic • Barium • Boron • Beryllium • Chromium • Manganese 	

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		<ul style="list-style-type: none"> • Molybdenum • Selenium • Iron • Antimony • Lead • Nickel • copper • Zinc • Cobalt • Vanadium • Thallium • Uranium • Cadmium • Magnesium • Potassium • Sodium • Calcium • Mercury • Aluminum • Silicon • Strontium • Silver
	In-House SOP-NLRC-AL-053/APHA 4500 Cl B	Determination Of Chlorine (Free & Total) & Chloramine (Mono) In Water using UV-Visible Spectrophotometer <ol style="list-style-type: none"> 1. Chlorine 2. Monochloramine
	In-House SOP-NLRC-AL-054/APHA 5210 B	Determination of Biochemical Oxygen Demand in water.
	In-House SOP-NLRC-AL-055/ISO 9697/ISO 9696	Determination of gross alpha, and beta-activity by Radioactivity Counter <ol style="list-style-type: none"> 1. Gross Alpha 2. Gross Beta
	In-House SOP-NLRC-AL-056 / APHA 5220 C/ HACH/ USEPA 8000	Determination of Chemical Oxygen Demand by Using Photometer
	In-House SOP-NLRC-AL-057/APHA 2130 B/USEPA 180.1 (Turbidimeter)	Determination of turbidity of water by using Turbidimeter
	In-House SOP-NLRC-AL-059/APHA 2510 B/ISO 7888/EPA 120.1 Conductivity Laboratory Method (Conductivity meter)	Determination of specific conductivity of water by using Conductivity Meter.
	In-House SOP-NLRC-AL-060/EPA 522	Determination of 1,4-Dioxane in Water by Solid Phase Extraction (SPE) using Gas Chromatography/ Mass Spectrometry (GC-MS/MS)

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	<p>In-House SOP-NLRC-AL-068/APHA 6200B/USEPA 524.3,4</p>	<p>Determination Of Concentration of the Volatile Organic Compounds (VOCs) In Water by GC-MS Purge and Trap.</p> <ul style="list-style-type: none"> • Vinyl chloride • Methylene chloride • trans-1,2-Dichloroethene • cis-1,2-dichloroethene • Chloroform • Carbon Tetrachloride • 1,1,1-trichloroethane • Benzene • 1,2-dichloroethane • 1,2-dichloropropane • Bromodichloromethane • cis-1,3-dichloropropene • Toluene • Tetrachloroethene • trans-1,3-dichloropropene • 1,1,2-trichloroethane • Dibromochloromethane • 1,2-dibromoethane • Ethylbenzene • m-Xylene+p-Xylene • o-Xylene • Styrene • Bromoform • 1,4-Dichlorobenzene • 1,2-Dichlorobenzene • 1,2-dibromo-3-chloro-propane • Hexachlorobutadiene
	<p>In-House SOP-NLRC-AL-069/USEPA 525.3/USEPA 8270D/USEPA 550.1</p>	<p>Determination of Semivolatile Organic Chemicals in Water by Solid Phase Extraction and Gas Chromatography/ Mass Spectrometry (GC-MS/MS)</p> <ol style="list-style-type: none"> 1. DEHP 2. Benzo (a) pyrene 3. Bisphenol- A
	<p>In-House SOP-NLRC-AL-070/EPA 557/USEPA 552.2</p>	<p>Determination of Haloacetic Acids (HAA's) In Water by using Triple Quadrupole LC-MS/MS.</p> <ul style="list-style-type: none"> • Bromoacetic acid • Bromochloroacetic acid • Bromodichloroacetic acid • Chloroacetic acid • Dibromoacetic acid • Dichloroacetic acid • Tribromoacetic acid • Trichloroacetic acid

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		<ul style="list-style-type: none"> • Dibromochloro acetic acid • Dalapon
In-House SOP-NLRC-AL-071/USEPA 555		Determination of Chlorinated Phenols In Water by Using Triple Quadrupole LC-MS/MS <ol style="list-style-type: none"> 1. 2,4,6-Trichlorophenol 2. Pentachlorophenol
In-House SOP-NLRC-AL-073/USEPA 551.1		Determination of Chlorinated Solvents / Haloacetonitrile's (HAN's) In Water by Solid Phase Extraction and Gas Chromatography/ Mass Spectrometry (GC-MS/MS). <ul style="list-style-type: none"> • Di bromoacetonitrile • Di chloroacetonitrile • Bromochloroacetonitrile • Tri chloroacetonitrile • Chloral Hydrate
In-House SOP-NLRC-AL-074/APHA 5310B		Determination of Total Organic Carbon (TOC) In Water by Using UV-Visible Spectrophotometer
In-House SOP-NLRC-AL-075/APHA 2150 B & 2160 B/USEPA 141.1		Determination of odour & taste in Drinking water
In-House SOP-NLRC-AL-091		Determination Of Epichlorohydrin by GC-MS Purge and Trap
In-House SOP-NLRC-AL-092/APHA4500CN/EPA 335.4		Determination Of Cyanide using UV-Visible Spectrophotometer
In-House SOP-NLRC-AL-096		Acrylamide By Using Quechers Workflow
In-House SOP-NLRC-AL-097/EPA 544		Microcystin-LR in Water Using Quechers Workflow
In-House SOP-NLRC-AL-104/APHA 5520B/EPA 1664B		Determination Of Oil and Grease in Water by Using Extraction Method
In-House SOP-NLRC-AL-114/APHA 4110 B		Determination Of Inorganic Cations By Ion Chromatography <ul style="list-style-type: none"> • Sodium • Ammonium • Potassium • Magnesium • Calcium
In-House SOP-NLRC-AL-118/APHA 5540/HACH LCK332/HACH 8025		Surface Active Agent
In-House SOP-NLRC-AL-119/ WHO SDE WSH 07.01/3		Determination Of Dichloroisocyanurate By LC-MS/MS

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	In-House SOP-NLRC-AL-133	Determination Of N-nitrosodimethylamine
	In-House SOP-NLRC-PRL-010/APHA 6630 B and EPA 525.2 Organochlorine pesticides	<p>Determination Of Pesticide Residues in Water by Liquid-Liquid Extraction Using Gas Chromatography/Mass Spectrometry (GC-MS/MS)</p> <ul style="list-style-type: none"> • Alachlor • Aldrin and dieldrin • Atrazine • Chlordane – Trans (Gamma) • Chlordane – Cis (Alpha) • Chlorpyrifos • Endrin • Chlorotoluran • Isoproturon • Lindane • Methoxychlor • Metolachlor • Molinate • Pyriproxyfen • Pendimethalin • Simazine • Terbutylazine • Trifluralin • DDT Metabolites
	In-House SOP-NLRC-PRL-011/USEPA 555 pesticide residues in water	<p>Multi-Residue Pesticide Analysis in Water by Multiple Reaction Monitoring (MRM) Using Triple Quadrupole LC-MS/MS</p> <ul style="list-style-type: none"> • Aldicarb • Carbofuran&3-Hydroxy Carbofuran • Cyanazine • Dimethoate • Hydroxy atrazine • Molinate • 2,4 –Dichlorophenoxy acetic acid • 2,4-Dichlorophenoxybutyric acid • Dichloroprop • MCPA • Mecoprop • 2,4,5-T • Dicamba • Fenoprop
Electronic Nicotine Products, Heated Tobacco Products, Household Care Products, Oral and Personal Care Products	In-House SOP-NLRC-AL-099	Determination of Triclosan and Triclorocarban by UHPLC-MS/MS

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<p>Food and agricultural products, Household care products, personal care Products & Cosmetics, Soils and Fertilizers, Marine Sediments, Tobacco & tobacco products, Drinking Potable Water, Bottled Water, Ice, Domestic Water, Potable and Non-Potable Water, Recreational Water, Pool Water, Irrigation Water, Cooling Water, Boiler Water, Wastewater, Raw Sewage and Treated Sewage, Sea Water and Marine Water (Fresh Water, Bilge Water, Ballast Water, Wastewater, Scrubber Water, Grey Water, Black Water, Boiler and Cooling System Water)</p>	<p>In-House SOP-NLRC-AL-152</p>	<p>Determination of trace metals content by micro digestion by using ICP-MS, Total Metals and Dissolved Metals.</p> <ul style="list-style-type: none"> • Iron (Fe) • Molybdenum (Mo) • Selenium (Se) • Manganese (Mn) • Antimony (Sb) • Lead (Pb) • Chromium (Cr) • Arsenic (As) • Copper (Cu) • Nickel (Ni) • Cadmium (Cd) • Zinc (Zn) • Tin (Sn) • Cobalt (Co) • Silver (Ag) • Sodium (Na) • Magnesium (Mg) • Potassium(K) • Calcium (Ca) • Mercury (Hg) • Phosphorous(P) • Palladium (Pd) • Zirconium (Zr) • Titanium (Ti) • Lithium (Li) • Aluminum (Al) • Silicon • Iodine • Inorganic Tin and Arsenic • Methyl Mercury • NPK ratio, N-P₂O₅-K₂O (Fertilizer)
<p>Food and beverage products</p>	<p>GSO 9</p>	<p>Labeling of Prepackaged Food stuffs</p>
<p>Food & Beverages, Tobacco, Tobacco Products, Nicotine-Containing Products and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products) and Its Emissions test (Aerosols Test)</p>	<p>In-House SOP-NLRC-AL-037/Afnor XP D90-300-2,3</p>	<p>Determination of caffeine, taurine, inositol, and glucuronolactone by UHPLC-MS/MS</p>
<p>Food and beverage products, vegetables and animal fats and oils</p>	<p>In-House SOP-NLRC-AL-153/ISO 12966-4/AOAC 996.06 Determination of fatty acid methyl esters,</p>	<p>Fatty Acids methyl ester 1. Palmitic acid methyl ester (C16:0) 2. Palmitoleic acid methyl ester (C16:1)</p>

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	Saturated fat, Unsaturated fat and trans-fat by capillary gas chromatography	<ol style="list-style-type: none">3. Heptadecanoic acid methyl ester (17:0)4. cis-10-Heptadecenoic acid methyl ester (C17:1)5. Stearic acid methyl ester (C18:0)6. trans-9-octadecenoic methyl ester (C18:1n9t)7. Oleic acid methyl ester (C18:1n9c)8. Linolelaidic acid methyl ester (C18:2n6t)9. Linoleic acid methyl ester (C18:2n6c)10. Arachidic acid methyl ester (C20:0)11. g-Linolenic acid methyl ester (C18:3n6)12. Linolenic acid methyl ester (C18:3n3)13. cis- 11-Eicosenoic acid, methyl ester (20:1)14. Heneicosanoic acid methyl ester (C21:0)15. cis- 11,14-Eicosadienoic acid methyl ester (C20:2)16. Behenic acid methyl ester (C22:0)17. cis- 8,11,14-Eicosatrienoic acid, methyl ester (C20:3n6)18. cis- 11,14,17-Eicosatrienoic acid methyl ester (C20:3n3)19. Erucic acid methyl ester (C22:1n9)20. Arachidonic acid methyl ester (C20:4n6)21. Tricosanoic acid methyl ester (C23:0)22. cis-13,16-Docasadienoic acid, methyl ester (C22:2n6)23. cis- 5,8,11,14,17-Eicosapentaenoic acid methyl ester (C20:5n3)24. Lignoceric acid methyl ester (C24:0)25. Nervonic acid methyl ester (C24:1n9)26. cis- 4,7,10,13,16,19-Docosahexaenoic acid methyl ester (C22:6n3)27. Butyric acid methyl ester (C4:0)28. Caproic acid methyl ester
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		<p>(C6:0) 29. Caprylic acid methyl ester (C8:0) 30. Capric acid methyl ester (C10:0) 31. Undecanoic acid methyl ester (C11:0) 32. Lauric acid methyl ester (C12:0) 33. Tridecanoic acid methyl ester (C13:0) 34. Myristic acid methyl ester (C14:0) 35. Methyl myristoleate (C14:1) 36. Pentadecanoic acid methyl ester (C15:0) 37. cis-10-Pentadecenoic acid methyl ester (C15:1)</p>
<p>Food, Beverage, Water, Food Products, Tobacco, Tobacco Products, Nicotine-Containing Products, and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products) and Its Emissions test (Aerosols Test).</p>	<p>In-House SOP-NLRC-AL-078</p>	<p>Determination of water-soluble and fat-soluble vitamins by using UHPLC-MS/MS.</p> <p>Thiamine (Vit B1), Riboflavin (Vit B2), Niacin (Vit B3), (Nicotinamide) (Vit B3), Calcium-d-Pantothenate (Vitamin B5), Pyridoxine (Vita B6), Pyridoxamine (Vit B6), Pyridoxal (Vit B6), Biotin (Vit B7), Folic Acid (Vit B9), Vitamin A, Vitamin E, Vitamin D2, Vitamin D3, Vitamin K1, Vitamin K2, Vitamin K3, Beta-carotene.</p>
<p>Food, Beverage, Dairy Products, Cosmetics and Personal Care Products Water (Drinking Potable Water, Bottled Water, Ice, Domestic Water, Potable and Non-Potable Water, Recreational Water, Pool Water, Irrigation Water, Cooling Water, Boiler Water, Wastewater, Raw Sewage and Treated Sewage, Sea Water and Marine Water (Fresh Water, Bilge Water, Ballast Water, Wastewater, Scrubber Water, Grey Water, Black Water, Boiler and Cooling System Water)</p>	<p>In-House SOP-NLRC-AL-072/WHO SDR WSH 03.04/58</p>	<p>Determination of EDTA & NTA</p> <ol style="list-style-type: none"> 1. NTA (Nitriloacetic Acid) 2. EDTA
<p>Food, Beverage, Dairy Products, Household Care Products, Industrial Products, Cosmetics and Personal Care Products, Tobacco Products. Drinking Potable Water, Bottled Water, Ice, Domestic Water, Potable and Non-Potable Water, Recreational Water, Pool Water, Irrigation Water,</p>	<p>In-House SOP-NLRC-AL-058/ EPA 300.1/APHA 4500NO3/APHA 4110B</p>	<p>Determination of inorganic anions</p> <ul style="list-style-type: none"> • Nitrate (NO₃⁻) • Nitrite (NO₂⁻) • Fluoride • Chlorate • Phosphate • Chloride • Sulfate • Bromide

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Cooling Water, Boiler Water, Wastewater, Raw Sewage and Treated Sewage, Sea Water and Marine Water (Fresh Water, Bilge Water, Ballast Water, Wastewater, Scrubber Water, Grey Water, Black Water, Boiler and Cooling System Water)		<ul style="list-style-type: none"> • Bromate • Chlorite • Perchlorate
Food contact materials & Accessories Water	NLRC-SOP-AL-131/EN 13130-1,13	Specific migration of Bisphenol- A, Pentachloro phenol and trichlorophenol by LC-MS-MS
Food contact materials, Water contact materials, Cosmetics contact materials & Accessories	BS EN 1186 (1-15)/ IS 9845	Materials and articles in contact with foodstuffs-Plastics <ul style="list-style-type: none"> • Overall Migration
Food, Cosmetics	In House SOP-NLRC-MML-073	Lard DNA in cosmetics & food base on Real-time Polymerase Chain Reaction (RT-PCR) Method
Food, feed, Agricultural products and Beverage Products	AOAC 985.29/AOAC 962.09/ISO 6865:2000	Determination of total dietary fiber and crude fiber.
Food, Feed, Beverage Products, Agricultural Products, Dairy Products, Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products	In House SOP-NLRC-AL-004/AOAC 999.07:2008/AOAC 2000.03-2000/AOAC 991.31 & LC Tech Application Note and Agilent Application Notes	Determination of Aflatoxin-G1, G2, B1, B2, M1, Ochratoxin A, Fumonisin B1 and B2, Patulin, T-2 Toxin, Deoxynivalenol and Zearalenone.
Food, Feeds, Edible Oil, Fertilizer, Cosmetics and Personal Care Products	In-House SOP-NLRC-AL-151	Quantitative Analysis of Selected Phenolic Antioxidant Content by Gas Chromatography <ul style="list-style-type: none"> • Butylated Hydroxy Toluene (BHT) • Butylated Hydroxy Anisole (BHA) • Tert-ButylHydroQuinone (TBHQ) • Propyl Gallate (PG)
Foods, feed, food products, and beverages	In-House SOP-NLRC-AL-125/ AOAC 971.10, 995.13	Determination Of Carbohydrates and Energy
	In-House SOP-NLRC-AL-130	Determination of Sugars By HPLC (Glucose, fructose, sucrose, lactose and maltose)
	In-House SOP-NLRC-AL-132/ ISO 712:2009, AOAC 930.15, IS 12711/1994, AOAC 931.04, AOAC 925.19, AOAC 950.46	Determination of Total Moisture Content and Total Solids- Oven Method
Foods, feed, food products, milk products and beverages	In-House SOP-NLRC-AL-128/AOAC 948.22/ 920.39/945.18/ 991.36/960.39/922.06/	Fat Determination - Soxhlet Method/Acid hydrolysis/Alkaline hydrolysis

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	963.15/925.12/945.44/ ISO 6492:1999	
Foods, feed, food products, milk products and beverages, meat products	In-House SOP-AL-127/AOAC 942.05, 930.22, 900.02 & 920.108, 923.03,920.23,900.02, 972.15,937.08,923.03, 941.12, ISO 2171:2007	Determination Of Total Ash Content by Muffle Furnace
Food, Food Product, Feed and Infant Formula	FDA Laboratory Information Bulletin (LIB): 4421,4222,4223	Determination of Melamine and Cyanuric Acid Residues using LC-MS/MS
Foods, food products, milk and milk products, Beverage, and Animal Feed, fertilizers	In-House SOP-NLRC-AL-122/AOAC 928.08, 954.01, 991.23, 2011.04, 950.36, 920.53, 930.29, 930.33, 991.22, 979.09, 920.87	Determination Of Nitrogen and Protein Content
Foods, food products, milk and milk products, Beverage, meat products.	In-House SOP-NLRC-AL-121/AOAC 994.10	Determination Of Cholesterol
Food Products, Animal Feed and Fishery Products	In-House SOP-NLRC-AL-123	Determination Of Histamine By LC-MS/MS
Food Products, Edible Oil, Cosmetics and Personal Care Product, Fatty Acid of Soap Products, Essential and Fragrance Oil.	In House NLRC-AL-013 Based on ISO 660:2009	Determination of acid number and Free Fatty Acid content by Potentiometric Titration
Food Products and Milled Cereal Products	ISO 7305:2019	Determination of fat acidity
Food Products, Plants, Tea products	ISO 14502	Total Polyphenolic Content, Flavonoid Content
Germicidal liquid detergent for general purposes	GSO 1948/2009	Stability At Low-Temperature Test
	GSO 1949/2009	Germicidal Activity Test
		Cleaning Efficiency Test
		Stability to Hard Water Test
Honey	In-House SOP-NLRC-AL-064 based on AOAC official methods 962.19	Determination of Free Acidity and Total Acidity in Honey by Potentiometric Titration
	In-House SOP-NLRC-AL-087	Determination of total ash content for honey
	In-House SOP-NLRC-AL-088	Water Insoluble Solids in Honey
Honey Products	In-House SOP-NLRC-AL-067	Determination of Tutin in Honey Products by UHPLC-MS/MS
	In-House SOP-NLRC-AL-095	Determination Of Diastatic Activity in Honey by Phadebas Method
Household Care Products- Air Fresheners	ESS 8283	Aerosol Flammability Test
Household Care Products, Carpet Cleaner	In-House SOP-NLRC-AL-154 based on GSO 461:1994	Determination Of Alkalinity of Liquid Carpet Cleaner

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Household Care Products- Cosmetic and Personal Care Products -Hands Wash Liquid	UAE.S/GSO 2018:2010	Determination of Total Alkali & Total Anhydrous Soap
		Determination of Free Alkali and Free Acid
Household Care Products/ Detergent Products	EAS 383	Determination Of Non-Detergent Organic Matter
	GSO 152:2007	Rinsing Properties Test
		Brightening Agent Test
	UAE.S GSO 152:2007	Determination Of Soap Content
Determination Of Sodium Carbonate Content		
Household Care Products, Food, Beverage, Fertilizers, Agricultural Products, Fertilizer, Detergent, Soap, Personal care, Cosmetics. Marine Sediments, Tobacco, Tobacco Products, Nicotine-Containing Products and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products) and Its Emissions test (Aerosols Test).	In House SOP-NLRC-AL-001	Estimation of trace metal contents Metals: Mercury (Hg), Arsenic (As), Chromium (Cr), Cadmium (Cd), Nickel (Ni), Molybdenum (Mo), Selenium (Se), Lead (Pb), Manganese (Mn), Copper (Cu), Zinc (Zn), Magnesium (Mg), Sodium (Na), Potassium (K), Calcium (Ca), Antimony (Sb), Iron (Fe), Tin (Sn), Phosphorous(P) Palladium (Pd), Zirconium (Zr), Titanium (Ti), Lithium (Li) Aluminum (Al), Silicon, Iodine Methyl mercury, Selenium disulfide, Titanium dioxide Organic and inorganic Arsenic and Tin.
Household Care Products /Synthetic detergents for Kitchen	GSO 1947	Confirming Test of Fluorescent Brightener
Household Care Products/ Washing powders	ISO 4313:1976	Determination of total phosphorus(V) oxide content.
	ISO 8215:1985	Determination of Total Silica (Silicates) Content-Gravimetric method
Leather Products & Accessories, Footwear components made up of Leather	ISO 11641-IULTCS/IUF 426	Leather-Tests for Colour fastness- Colour fastness to perspiration
	ISO 11642-IULTCS/IUF 421	Leather-Tests for Colour fastness- Colour fastness to water
	ISO 15700:1998-IULTCS/IUF 420	Leather-Tests for Colour fastness- Colour fastness to water spotting
Leather, Textiles comes under garments, toys, bag, footwear and components	ISO 22517:2019	Determination of Pesticide residues by GC-MS/MS <ul style="list-style-type: none"> • BHC-alpha • BHC-beta • BHC-Gamma • BHC-Delta • Hexachlorobenzene • Quintozene • Chlorothalonil • Vinclozolin • Parathion-methyl • Heptachlor • Endrin

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		<ul style="list-style-type: none"> • Endosulfan II (beta isomer) • p, p'-DDD • o, p-DDT • Endosulfan sulfate • p, p'-DDT • Resmethrin-cis (Cismethrin) • Bifenthrin • Pyriproxyfen • Lambda Cyhalothrin • Cyfluthrin • Cypermethrin • Etofenprox (Ethofenprox) • Esfenvalerate • Fenvalerate A-alpha • Fenvalerate • Deltamethrin
Lip stick	IS 9832:2002	Gluing and Warpage of Casing Determination of Wear of Slip (pay-off)
Microbiology- Cosmetics & Personnel care products	ISO 11930:2019	Evaluation of the antimicrobial protection of a Cosmetic product (Challenge test)
	ISO 16212:2017	Enumeration of Yeast & Mould
	ISO 18416:2015	Detection of Candida albicans
	ISO 21149:2017	Enumeration of Aerobic Mesophilic Bacteria
	ISO 21150:2015	Detection of E. coli
	ISO 22717:2015	Detection of Pseudomonas aeruginosa
Microbiology- Disinfectants and Antiseptics	ISO 22718:2015	Detection of Staphylococcus aureus
	BS EN 1276:2019	Determination of Bactericidal activity of Chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas
Microbiology- Food & Food Products	UAE.S.GSO 875:1997	Determination of Rideal -Walker coefficient
	CCFRA 3.3.1:2007, 5th edition	Detection of Campylobacter Species
	C.C.F.R.A:3.12.1:2007	Detection of Cronobacter sakazakii
	CMMEF Chapter 9.6	Enumeration of Enterobacteriaceae
	CMMEF 9.71; 9.81 & 9.91:2015, 5th Edition	Total Coliform, Fecal Coliform, E. coli (MPN method)
	CMMEF: Chapter-9.73	Enumeration of Total coliforms
	CMMEF Chapter 21.5	Enumeration of Yeast & Mould
	In house SOP-NLRC-MML-069	Enumeration of Presumptive Sulphite Reducing Clostridia
In house SOP-NLRC-MML-076	Enumeration of Pseudomonas aeruginosa by colony count	
In house SOP-NLRC-MML-089	Qualitative Detection of Clostridium botulinum in food and food products by RT-PCR	

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	In house SOP-NLRC-MML-095	Enumeration of Lactic acid Bacteria
	In house SOP-NLRC-MML-096	Enumeration of Yeast and Moulds by 3M petrifilm -Rapid Method
	In house SOP-NLRC-MML-097	Detection of Listeria Monocytogens
	In house SOP-NLRC-MML-92	Enumeration of E. coli (Chromogenic Plate Method)
	In house SOP-NLRC-MML-101 (CMMEF:2015)	Detection of Shigella Spp. in food and feed
	ISO 6579-1:2017/AMD 1:2020	Detection & Confirmation of Salmonella
	ISO 6888-1:1999/AMD 2:2018	Enumeration of Staphylococcus aureus
	ISO 7937:2004	Enumeration of Clostridium perfringenes
	ISO 21872:2017	Detection of Vibrio parahaemolyticus
	Reveal test kit (997.03):2009 Based on AOAC official method (Neogen)	Detection of Listeria Spp.
	Reveal test kit (No.2000.14) Based on AOAC official method (Neogen):2008	Detection of E. coli O157
	US FDA BAM Chapter 3	Aerobic Plate Count
	US FDA BAM Chapter 14	Enumeration of Bacillus cereus
Microbiology- Indoor Air Quality	In-house SOP NLRC-MML- 011	Total Bacterial Count
	In-house SOP NLRC-MML- 012	Total Yeast and Mould count
Microbiology- Nonsterile products	In House SOP NLRC-MML-071	Enumeration of TAMC and TYMC in Non-sterile products
	In House SOP NLRC-MML-072	Microbiological Detection & Enumeration of specified microorganisms in Nonsterile products
Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	C.C.F.R.A 2.3.1:2007 5th Edition	Enumeration of Enterobacteriaceae
	CMMEF: Chapter-9.73	Enumeration of Total coliforms
	CMMEF 9.91:2015 5th Edition	E. coli
	In house SOP-NLRC-MML-076	Enumeration of Pseudomonas aeruginosa by Colony count
	In house SOP-NLRC-MML-092	Enumeration of E. coli (Chromogenic Plate Method)
	In house SOP-NLRC-MML-097	Detection of Listeria Monocytogens
	ISO 6579-1:2017/AMD 1:2020	Detection & Confirmation of Salmonella

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	ISO 6888-1:1999/AMD 2:2018	Enumeration of Staphylococcus aureus
	Reveal test kit Based on AOAC official method (997.03) (Neogen):2016	Detection of Listeria Spp.
	Reveal test kit Based on AOAC official method (No.2000.14) (Neogen):2016	Detection of E. coli O157
	US FDA BAM Chapter 3	Aerobic Plate Count
Microbiology -Sampling	In house SOP-NLRC-MML-010	Sampling of Food & Food Products
	In house SOP-NLRC-MML-011 & 012	Sampling of In-door Air
	In house SOP-NLRC-MML-013	Sampling of Swimming pool Water
	In house SOP-NLRC-MML-014	Swab Sampling
	In house SOP-NLRC-MML-066	Sampling of Potable water
Milk & Milk Products	AOAC 925.23	Estimation of Total Solids
Milk & Milk Products Food, feed, food products, and beverages	AOAC Official Method 989.05/ ISO 6492:1999	Mojonnier method for determining crude fat
Molecular -Food, Cosmetics & Agricultural Products, Pharmaceutical & Personal Care Products	In House SOP-NLRC-MML-001	Pork Trace Detection
	In House SOP-NLRC-MML-070	Screening of regulatory GMO markers in food based on Real time Polymerase Chain reaction
Multiple food and Beverages commodities, Cosmetics and Personal care Products, Textiles, leather, Water and Tobacco Products/Nicotine-Containing products and related Products	In-House SOP-NLRC-PRL-013/ EN 15662:2018/ AOAC 2007.01	Multi-Residue Pesticide Analysis in Multiple Food Commodities and Various Matrices With Dynamic Multiple Reaction Monitoring (dMRM) by triple quadrupole LC/MS/MS and GC/MS/MS. <ol style="list-style-type: none"> 1. Azinphos ethyl 2. Azinphos methyl 3. Chlorpyrifos 4. Chlorpyrifos methyl 5. Diazinon 6. EPN 7. Fenitrothion 8. Isazophos 9. Phosalone 10. Phosmet 11. Pirimiphos ethyl 12. Pirimiphos methyl 13. Pyraclofos 14. Pyrazophos 15. Pyridaphenthion 16. Quinalphos (17. Aldrin

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		<ol style="list-style-type: none">18. α-BHC19. β-BHC20. γ-BHC (Lindane)21. δ-BHC22. Chlorbenside23. cis-Chlordane24. trans-Chlordane25. Chlorfenson (Ovex)26. Chloroneb27. 2,4'-DDD28. 4,4'-DDD29. 2,4'-DDE30. 4,4'-DDE31. 2,4'-DDT32. 4,4'-DDT33. 4,4'-Dichlorobenzophenone34. Dieldrin35. Endosulfan I36. Endosulfan II37. Endosulfan ether38. Endosulfan sulfate39. Endrin40. Endrin aldehyde41. Endrin ketone42. Ethylan (Perthane)43. Fenson44. Heptachlor45. Heptachlor epoxide (isomer B)46. Hexachlorobenzene47. Isodrin48. 2,4'-Methoxychlor49. 4,4'-Methoxychlor olefin50. Mirex51. cis-Nonachlor52. trans-Nonachlor53. Pentachloroanisole54. Pentachlorobenzene55. Pentachloroanisoole56. Tetradifon57. Benfluralin58. Biphenyl59. Chlorothalonil60. Dichlofluanid61. Dichloran62. 3,4-Dichloroaniline63. 2,6-Dichlorobenzonitrile (Dichlobenil)64. Diphenylamine65. Ethalfuralin66. Fluchloralin67. Isopropalin68. Nitralin
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		<ul style="list-style-type: none">69. Nitrofen70. Oxyfluorfen71. Pendimethalin72. Pentachloroaniline73. Pentachlorobenzonitrile74. Pentachloronitrobenzene(Quintozene)75. Prodiamine76. Profluralin77. 2,3,5,6-Tetrachloroaniline78. Tetrachloronitrobenzene(Tecnazene)79. THPI (Tetrahydrophthalimide)80. Tolyfluanid81. Trifluralin82. Acetochlor83. Alachlor84. Allidochlor85. Clomazone (Command)86. Cycloate87. Diallate (cis & trans)88. Dimethachlor89. Diphenamid90. Fenpropathrin91. Fluquinconazole92. Flutolanil93. Linuron94. Metazachlor95. Methoxychlor96. Metolachlor97. N-(2,4-Dimethylphenyl)formamide98. Norflurazon99. Oxadiazon100. Pebulate101. Pretilachlor102. Prochloraz103. Propachlor104. Propanil105. Propisochlor106. Propyzamide107. Pyridaben108. Tebufenpyrad109. Triallate110. Atrazine111. Bupirimate112. Captafol113. Captan114. Chlorfenapyr115. Cyprodinil116. Etofenprox117. Etridiazole
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		<ul style="list-style-type: none">118. Fenarimol119. Fipronil120. Fludioxonil121. Fluridone (Sonar)122. Flusilazole123. Flutriafol124. Folpet125. Hexazinone (Velpar)126. Iprodione127. Lenacil128. MGK-264129. Myclobutanil130. Paclbutrazol131. Penconazole132. Procymidone133. Propargite134. Pyrimethanil135. Pyriproxyfen136. Tebuconazole137. Terbacil138. Terbutylazine139. Triadimefon140. Triadimenol141. Tricyclazole (Beam)142. Triflumizole143. Vinclozolin144. Acrinathrin145. Anthraquinone146. Bifenthrin147. Bioallethrin148. Cyfluthrin149. lambda-Cyhalothrin150. Cypermethrin151. Deltamethrin152. Fenvalerate153. Flucythrinate154. tau-Fluvalinate155. cis-Permethrin156. trans-Permethrin157. Phenothrin (cis & trans)158. Resmethrin159. Tefluthrin160. Tetramethrin161. Transfluthrin162. Acequinocyl163. Bromopropylate164. Carfentrazone ethyl165. Chlorobenzilate166. Chlorpropham167. Chlozolinat168. DCPA methyl ester (Chlorthal-dimethyl)
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		<ul style="list-style-type: none">169. Fluazifop-p-butyl170. Metalaxyl171. 2-Phenylphenol172. Bromfenvinfos-methyl173. Bromfenvinphos174. Bromophos ethyl175. Bromophos methyl176. Carbophenothion177. Chlorfenvinphos178. Chlorthiophos179. Coumaphos180. Edifenphos181. Ethion182. Fenamiphos183. Fenchlorphos (Ronnell)184. Fenthion185. Iodofenphos186. Leptophos187. Malathion188. Methacrifos189. Profenofos190. Prothiofos191. Sulfotepp192. Sulprofos193. Terbufos194. Tetrachlorvinphos195. Tolclofos-methyl196. Disulfoton197. Fonofos (198. Methyl parathion199. Mevinphos200. Parathion (ethyl parathion)201. Phorate202. Piperonyl butoxide203. Triazophos204. Cyromazine205. Methamidophos206. Formetanate207. Carbofuran208. Methabenzthiazuron209. Acephate210. Pymetrozine211. Aminocarb212. Propamocarb213. Omethoate214. Dinotefuran215. Aldicarb sulfoxide216. Butoxycarboxim217. Nitenpyram218. Aldicarb sulfone219. Carbendazim220. Oxamyl
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		221. Flonicamid 222. Methomyl 223. Thiabendazole 224. Thiamethoxam 225. Fuberidazole 226. Monocrotophos 227. Mexacarbate 228. Dioxacarb 229. Dicrotophos 230. Imidacloprid 231. Clothianidin 232. Fenuron 233. Trichlorfon 234. Dimethoate 235. 3-Hydroxycarbofuran 236. Vamidothion 237. Mevinphos 238. Acetamiprid 239. Propoxur 240. Ethirimol 241. Cymoxanil 242. Thiacloprid 243. Pirimicarb 244. Aldicarb 245. Tricyclazole 246. Oxadixyl 247. Carbetamide 248. Simetryn 249. Thiophanate-methyl 250. Thidiazuron 251. Bendiocarb 252. Imazalil 253. Prometon 254. Metribuzin 255. Secbumeton 256. Terbumeton 257. Sulfentrazone* 258. Pyracarbolid 259. Tebuthiuron 260. Carbaryl 261. Carboxin 262. Monolinuron 263. Fluometuron 264. Diuron 265. Ethiofencarb 266. Ametryn 267. Chlorotoluron 268. Metobromuron 269. Propham 270. Flutriafol 271. Methoprotryne 272. Forchlorfenuron
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		<p>273. Isoprocarb 274. Fenpropimorph 275. Isocarbofos 276. Isoproturon 277. Desmedipham 278. Phenmedipham 279. Spiroxamine 280. Pyrimethanil 281. Metalaxyl 282. Chlorantraniliprole 283. Cycluron 284. Prometryn 285. Linuron 286. Thiofanox 287. Fenobucarb 288. Azoxystrobin 289. Diethofencarb 290. Ethofumesate 291. Ethiprole 292. Fludioxonil 293. Methiocarb 294. Siduron 295. Halofenozide 296. Fenamidone 297. Furalaxyl 298. Acibenzolar-S-methyl 299. Nuarimol 300. Dimethomorph 301. Boscalid 302. Mandipropamid 303. Flutolanil. 304. Promecarb 305. Paclobutrazol 306. Triadimenol 307. Mepronil 308. Cyproconazole 309. Myclobutanil 310. Chloroxuron 311. Bupirimate 312. Methoxyfenozide 313. Triadimefon 314. Bifenazate 315. Cyprodinil 316. Mefenacet 317. Mepanipyrim 318. Fluquinconazole 319. Fenhexamid 320. Fluoxastrobin 321. Tetraconazole 322. Bromuconazole isomer 1 323. Butafenacil 324. Iprovalicarb</p>
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		<ul style="list-style-type: none">325. Flufenacet326. Triticonazole327. Cyazofamid328. Diflubenzuron329. Spirotetramat330. Fenarimol331. Fenbuconazole332. Epoxiconazole333. Etaconazole334. Fipronil*335. Neburon336. Flusilazole337. Fenoxycarb338. Picoxystrobin339. Rotenone340. Tebufenozide341. Dimoxystrobin342. Bromuconazole isomer 2343. Flubendiamide344. Diclobutrazol345. Carfentrazone ethyl346. Kresoxim-methyl347. Tebuconazole348. Spinosad A349. Penconazole350. Prothioconazole351. Zoxamide352. Famoxadone353. Hydramethylnon354. Triflumuron355. Prochloraz356. Hexaconazole357. Benalaxyl358. Metconazole359. Propiconazole360. Pyraclostrobin361. Clofentezine362. Bitertanol363. Spinosad D364. Benzoximate365. Diniconazole366. Thiobencarb367. Pencycuron368. Spinetoram369. Hexaflumuron*370. Triflumizole371. Indoxacarb372. Difenconazole373. Ipconazole374. Trifloxystrobin375. Novaluron*376. Emamectin-benzoate B1b
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		<p>377. Clethodim 378. Teflubenzuron 379. Alanycarb 380. Buprofezin 381. Emamectin-benzoate B1a 382. Benfuracarb 383. Fluazinam 384. Metaflumizone 385. Furathiocarb 386. Temephos 387. Lufenuron 388. Tebufenpyrad 389. Pyriproxyfen 390. Piperonyl butoxide 391. Hexythiazox 392. Quinoxifen 393. Flufenoxuron 394. Propargite 395. Etoxazole 396. Spiromesifen 397. Chlorfluazuron 398. Spirodiclofen 399. Fenpyroximate 400. Pyridaben 401. Eprinomectin 402. Abamectin B1a 403. Fenazaquin 404. Doramectin 405. Ivermectin 406. Dicamba 407. 2,4-D 408. 2,4,5-T</p>
<p>Multiple food and beverages commodities, Egg and Egg products, Poultry Products, Meat and Meat Products, Fish and fish products, edible tissues, milk, milk products.</p>	<p>In-House SOP-NLRC-AL-136 Determination of Antibiotics Residues by LC-MS/MS</p>	<ul style="list-style-type: none"> • Sulfaguanidine • Sulfisomidine • Trimethoprim • Sulfacetamide • Sulfadiazine • Sulfapyridine • Sulfathiazole • Sulfamerazine • Sulfamoxole • Sulfamethazine • Sulfamethizole • Sulfameter • Sulfamonomethoxine • Sulfamethoxy pyridazine • Sulfachloropyridazine • Sulfadimethoxine • Sulfamethoxazole • Sulfisoxazole • Sulfabenzamide

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		<ul style="list-style-type: none"> • Sulfadoxine • Sulfaquinoxaline • Sulfaphenazole • Sulfanitran • Chlorotetracycline • Demeclocycline • Doxycycline • 4-Epichlortetracycline • 4-Epidemeclocycline • 6-Epidoxycycline • 4-epi-Oxytetracycline • 4-Epitetracycline • Oxytetracycline • Tetracycline • Ofloxacin • Pipemidic Acid • Enoxacin • Norfloxacin • Perfloxacinium • Ciprofloxacin • Lomefloxacin Hydrochloride • Danofloxacin • Enrofloxacin • Sarafloxacin • Cinoxacin • Oxolinic Acid • Nalidixic Acid • Flumequine • Azithromycin • Spiramycin • Troleandomycin • N-triacontane-d62 • Erythromycin • Tylosin • Clarithromycin • Fluphenazine • Leucomycin A3
Multiple food and Beverages commodities, Meat Products	In-House SOP-NLRC-AL-135	Determination of Hormones and Growth Promoters by LC-MS/MS. <ul style="list-style-type: none"> • Trenbolone • Roxarsone • 17-beta-Estradiol • Melengestrol acetate • Progesterone • Testosterone
Paints, varnishes and plastics	ISO 3251	Determination of non-volatile-matter content
Perfume and Perfumery Products	In-House SOP-NLRC-AL-014, based on UAE.S GSO 1047	Visual Inspection and Turbidity Test

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Perfume and perfumery products, alcoholic and non-alcoholic beverages, Food, Cosmetics, Personal care products, Household care products, Detergent, Water, Industrial Solvents and Disinfectant solutions, Tobacco products, Heated Tobacco Products & Electronic Nicotine Products.	In-House SOP-NLRC-AL-016	Determination of Alcohol Content (Methanol, Ethanol, Isopropanol and 1-Propanol) by gas chromatography.
Perfumes and Perfumery Products and Denatured Alcohol Products, Cosmetics, and Personal Care Products	In-House SOP-NLRC-AL-052	Determination of Alcohol Denaturant in Perfumes and Perfumery Products By UHPLC-MS/MS <ol style="list-style-type: none"> 1. Denatonium Benzoate (Bitrex) 2. Diethyl Phthalate 3. Quassin (Mixture of Quassin, Isoquassi, Neoquassin) 4. Sucrose Octaacetate (Octa-O-Acetyl D-(+)-Sucrose)
Perfumes, Oils, Beverage and Industrial Solvents	In-House SOP-NLRC-AL-139	Refractive Index Test
Perfume, Textiles, and leather comes undergarments, toys, bag, footwear and components, Cosmetics and Personal Care Products	In-house SOP-NLRC-AL-105/EN ISO 16373-2:2014	Determination Of Allergenic and Carcinogenic Dyestuffs By LC MS/MS. <ul style="list-style-type: none"> • Basic Red 9 • Direct Red 28 • Disperse Blue 102 • Disperse Blue 124 • Disperse Blue 26 • Disperse Blue 3 • Disperse Blue 7 • Disperse Orange 1 • Disperse Orange 11 • Disperse Orange 37/76 • Disperse Red 1 • Disperse Red 17 • Disperse Yellow 1 • Disperse Yellow 3 • Disperse Yellow 9
Perfumery Products, Cosmetic and Personal Care Products Household Care Products- Air Fresheners	ESS 8283 / In-House SOP-NLRC-AL-019	Aromatic Oils Content /Essential Oil Content
Personal Care Products, Detergents, Household Care Products, Food & Dairy Products, Beverage Products & Tobacco Products	In House SOP-NLRC-AL-012/ AOAC 963.05, ISO 457 ISO 4323/ISO 5943/ISO 1841/ISO 3634	Determination of Chloride, Sodium and Potassium chloride Content by Potentiometric Titration
Personal Care Products, Talcum Powder	UAE.S GSO 1202 :2002	<ul style="list-style-type: none"> • Determination of Water-Soluble Iron Salts • Determination of Acid Soluble Matter • Determination of Boric Acid • Test For Carbonates

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		<ul style="list-style-type: none"> • Determination of Acid Soluble Iron • Determination of Matter soluble in Water • Determination of Fineness • Identification Test for Talcum Powder
Petroleum Jelly	In-House SOP-NLRC-AL-085	Consistency for Vaseline
Phenolic Disinfectant Fluids	UAE.S GSO 874:1997	Effect on fabrics
	UAE.S GSO 875:1997	Determination Of Stability during use and storage Staining Test
Refined sugar	ICUMSA Method GS 2/1/3/9-15	Moisture content
	ICUMSA Method GS 2/3-10	The color of white sugar
	ICUMSA Method GS 2/3-17	Conductivity ash
Rice Kernels, Cereals, Pulses, and Derived products including Grains, Corn flour, Baked products	ISO 605/GSO 1003 / GSO 1806	Gravimetric and Visual Tests
Soap Products	EAS 186:2013	Texture and Stability Test
Soap Products, Cosmetics and Personal Care Products & Household Care Products	ISO 456/Directive 80/1335/EEC (Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis.	Determination of Free Caustic Alkali Content (Free Sodium and Potassium Hydroxide).
	ISO 684/UAS.S.801:1997	Determination Of Total/Free Alkali Content
	ISO 685	Determination of Total Fatty Matter Content Determination of Total Alkali Content
Soap Products, Cosmetics and Personal Care Products & Household Care Products, Edible Oil (animal and vegetable fats and oils)	ISO 1067:1974/UAE.S GSO 204:1994/ ISO 3657/3596)	Determination of Unsaponifiable Matter, Un-saponified And Un-saponified Saponifiable Matter and free fatty acid Content, Saponification Value
Sodium hypochlorite solution	EAS 295	Sodium hydroxide content (Free Alkalinity)
		Sediment Content
Sodium Hypochlorite Solution used as laundry bleach and household disinfectant, as well as for treatment of water supplies for industrial and municipal uses	UAE.S GSO 801:1997	Sodium hypochlorite content and available chlorine
Synthetic Detergent for Kitchen	GSO 1947/2009	Evaluation Method for Detergency
Synthetic liquid detergents for clothing and fabrics	GSO 2060/2010	Determination of ionic materials percentage/ anionic materials
		Total Active Material Percentage
	In-House SOP-NLRC-	Determination of Phthalate Content by

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Textile, leather, Coated paint, and polymer comes undergarments, toys, bag, footwear, toys, Cosmetics and Personal Care products and electronic devices comes under ROHS	AL-110/ISO 14389:2014 / IEC 62321-8.	GC-MS <ul style="list-style-type: none"> • Dimethyl phthalate • Diethyl Phthalate • Di-n-butyl phthalate • Bis(2-methoxyethyl) phthalate • Diamyl Phthalate • Benzyl butyl phthalate • Dicyclohexyl phthalate • Bis(2-ethylhexyl) phthalate • Di-n-octyl phthalate • Diisononyl Phthalate • Diiso Decyl phthalate
	In-House SOP -NLRC-AL-141	Screening of Polymer Residues by GC-MS
Textiles and leather come undergarments, toys, bag, footwear and components	In-House SOP-NLRC-AL-107/ ISO 17881-2	Determination of Flame Retardants (Phosphate) by LC MS/MS <ul style="list-style-type: none"> • Tris (1,3-dichloropropyl-2) Phosphate • Tris(2-chloroethyl) phosphate
	In House SOP-NLRC-AL-112/ EN 17137	Determination of Chlorobenzenes and Chlorotoluene by GC MS <ul style="list-style-type: none"> • Benzene, 1,4-dichloro-Benzene • Trichlorotoluene • Benzene, 1,2-dichloro-Benzene • Trichlorobenzene • Tetrachlorobenzene • Pentachlorobenzene • Hexachlorobenzene
Textiles and textile products, leather and footwear materials	ISO 22744-1,2	Determination of Organotin compounds
Textiles comes undergarments, toys, bags, footwear and components, Cosmetics and Personal care products	In-House SOP-NLRC-AL-103/ISO 17234-1	Determination of Aromatic Amines Derived from Azo Colorants By GC-MS. <ul style="list-style-type: none"> • O-toluidine • 2,6-dimethylaniline • 2,4-dimethylaniline • 2-methoxyaniline • 4-chloroaniline • 2-methoxy-5-methylaniline • 2,4,5-trimethylaniline • 4-chloro-2-methylaniline • 2,4-diaminotoluene • 2,4-diaminoanisol • 2-naphthylamine • 5-nitro-o-toluidine • 4-aminobiphenyl • P-phenylazoaniline

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		<ul style="list-style-type: none"> • 4-aminophenyl Ether • Benzidine • 4,4'-methylenedianiline • O-aminoazotoluene • 3,3'-dimethyl-4,4'-diaminodiphenylmethane • 3,3'-dimethylbenzidine • 4,4'-thiodianiline • 3,3'-dimethoxybenzidine • 3,3'-dichlorobenzidine
Textiles, leather metals and non-metals (polymer, plastics and glass) comes undergarments toys, bag, footwear, and Electronic devices comes under ROHS.	In-House SOP-NLRC-AL-116/EN 16711-1/ IEC 62321-4	Determination of Heavy Metal content by ICP-MS <ul style="list-style-type: none"> • Antimony (Sb) • Arsenic (As) • Lead (Pb) • Cadmium (Cd) • Chromium (Cr) • Cobalt (Co) • Copper (Cu) • Mercury (Hg) • Nickel (Ni)
Textiles, Leather, plastic, metals and wood comes under garments, toys, bag, footwear and components	In-House SOP-NLRC-AL-120/ ISO 14184-1	Determination of Formaldehyde by UV-VIS spectroscopy
Textiles, leather and polymer comes under garments, toys, bag, footwear and footwear components	In-House SOP-NLRC-AL-117/ISO-16190	Determination of Poly Aromatic Hydrocarbon (PAH) by GC MS/MS. <ul style="list-style-type: none"> • Naphthalene • Acenaphthene • Acenaphthylene • Fluorene • Anthracene • Phenanthrene • Fluoranthene • Pyrene • Benz[a]anthracene • Chrysene • Benzo[a]pyrene • Benzo[b]fluoranthene • Benzo[k]fluoranthene • Benzo[g,h,i]perylene • Dibenz[a,h]anthracene • Indeno[1,2,3-cd]pyrene
Textile, metals, plastic/polymer, and Paint coated materials comes under RoHS (electronic equipment), garments, toys, bag, footwear and footwear components.	In-House SOP-NLRC-AL-111/ISO 17075-1/IEC 62321-7-2:2017	Determination of Hexavalent chromium by UV-VIS spectroscopy
Textiles (whether natural or synthetic)	EN 71-3 Part 3: Migration of certain elements	Specific Migration Of elements ICP MS <ul style="list-style-type: none"> • Antimony (Sb) • Arsenic (As)

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<p>glass, ceramic, metallic materials, wood, fiber board, hard board, bone, leather and other solid materials</p>		<ul style="list-style-type: none"> • Barium (Ba) • Beryllium (Be) • Cadmium (Cd) • Chromium (Cr) • Cobalt (Co) • Copper (Cu) • Iron (Fe) • Lead (Pb) • Manganese (Mn) • Mercury (Hg) • Molybdenum (Mo) • Nickel (Ni) • selenium (Se) • Silver (Ag) • strontium (Sr) • Thallium (Tl) • Tin (Sn) • Vanadium (V) • Zinc (Zn)
<p>Textiles, wood, and polymer comes under garments, toys, bag, footwear and electronic devices come under ROHS.</p>	<p>In-House SOP-NLRC-AL-106/ ISO 17881-1/ IEC 62321-6</p>	<p>Determination of Flame Retardants (brominated) by GC-MS</p> <ul style="list-style-type: none"> • 2,2',4,4',5,5'-hexabromodiphenyl Ether (bde-153) • 2,2',4,4',5,6'-hexabromodiphenyl Ether (bde-154) • 2,2',4,4',5-pentabromodiphenyl Ether (bde-99) • 2,2',4,4',6-pentabromodiphenyl Ether (bde-100) • 2,2',4,4'-tetrabromodiphenyl Ether (bde-47) • 2,2',3,4,4',5',6'-heptabromodiphenyl Ether (bde-183) • 2,4,4'-tribromodiphenyl Ether (bde-28)
<p>Textiles Products, Garments & Accessories, All Forms of Textiles materials (Fiber, Yarn, Fabrics), Carpets, Rugs, Masks, Footwear components made up of Textiles, Toys components made up of Textiles.</p>	<p>AATCC 20 Test Method for Fiber Analysis: Qualitative</p>	<p>Determination of Fiber Identification</p>
	<p>AATCC 20A</p>	<p>Test Method for Fiber Analysis: Quantitative Determination of Fiber Composition of Textiles</p>
	<p>DIN 53160-1</p>	<p>Determination of the colorfastness of articles for common use - Part 1: Test with artificial saliva</p>

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	DIN 53160-2:2010	Determination of the Colourfastness of Articles for Common Use - Part 2: Test with Artificial Sweat
	GSO 1957	Methods of Testing harmful substances used in textile products- Determination of odour of Textiles
	ISO 105-B01	Textiles — Tests for colorfastness — Part B01: Color fastness to light: Daylight
	ISO 105-C06	Textiles — Tests for colour fastness — Part C06: Colour fastness to domestic and commercial laundering
	ISO 105-D01	Textiles — Tests for colour fastness — Part D01: Colour fastness to drycleaning using perchloroethylene solvent
	ISO 105-E01	Textiles — Tests for colour fastness — Part E01: Colour fastness to water
	ISO 105-E02	Textiles — Tests for colour fastness — Part E02: Colour fastness to sea water
	ISO 105-E03	Textiles — Tests for colour fastness — Part E03: Colour fastness to chlorinated water (swimming-pool water)
	ISO 105-E04	Textiles — Tests for colour fastness — Part E04: Colour fastness to perspiration
	ISO 105-X12	Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing
	ISO 3071	Textiles — Determination of pH of aqueous extract
	Reference to, GSO ISO 3758 “Textiles - Care Labelling Code Using Symbols “GSO 1829 “Technical requirements for woven fabrics garments”	Availability Of Labelling & Marking Of Fiber Composition—Care
	Reference To GSO 863 (SASO 1173) “Identification Label for Textile Products”, GSO 1829 “Technical requirements for woven fabrics garments”	Availability Of Labelling & Marking Of Fiber Composition -Fiber Content, Manufacturer’s Name And /Or Trade Mark, Country Of Origin, and Other Details
Tissue Products, Paper, Wipes, Textiles and leather and Board	In-House SOP-NLRC-AL-108	Determination Of Grammage
Tissue Products, Textiles, Leather, Paper, Wipes and Board	In-House SOP-NLRC-AL-109	Determination Of Thickness, Bulk Thickness & Apparent Bulk Density for Tissue Paper and Tissue Products

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Tobacco & Tobacco Products	In-House SOP-NLRC-CL-038, based on ISO 20193:2012	Determination of Tobacco Cut Width using optical measurement
Tobacco and Tobacco Products (Cigarette/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses)	In house SOP-NLRC-CL-009	Fine tobacco content passing through 425µm sieve on wet or dry weight
	In house SOP-NLRC-CL-006, AOAC 966.02:1968 & Coresta Method N° 76	Moisture content
	In-house SOP-NLRC-CL-024	Tobacco products sieve analysis passing through 600µm on wet or dry weight
	In house SOP-NLRC-CL-027, based on AOAC 959.04:1964	Total Nitrogen content on wet or dry weight
	ISO 1575:1987	Total ash content on wet or dry weight
	ISO 1577:1987	Determination of acid-insoluble ash on wet and dry weight
	ISO 2817:1999 /In house SOP-NLRC-CL-033	Silicated residues insoluble in HCl (Sand content) on wet or dry weight
Tobacco and Tobacco Products (Cigarette/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/E-liquid)	In house SOP-NLRC-CL-014	Visual test
Tobacco and Tobacco Products (Cigarette/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products)	In-house SOP-NLRC-PRL-004 Based on AOAC International, Volume 98, Number 2: 2015 & UCT (DCN-311110-287:2013)	Determination of Acidic Herbicides <ul style="list-style-type: none"> • Dicamba • 2,4-D • 2,4,5-T
	WHO SOP 04/Coresta recommended method No.60/ In house SOP-NLRC-CL-022	Nicotine content in wet or dry weight
Tobacco & Tobacco Products, Cigarettes and Molasses Products, Heated Tobacco Products & Electronic Nicotine Products and Nicotine related products.	In house SOP-NLRC-CL-061, Screening and Determination of Selected Cannabinoids	<ol style="list-style-type: none"> 1. Δ9-tetrahydrocannabinol (Δ9-THC) 2. Cannabidiol (CBD)
Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds Heated Tobacco Products & Electronic Nicotine Products.	In House SOP-NLRC-PRL-007 based on Thermo Fischer Scientific Inc, Application Note 10333:2012	Pesticide Residues -Dithiocarbamate
Tobacco, Tobacco product & Nicotine-Containing Products	In-house SOP-NLRC-CL-039/ CORESTA Method No. 69	Determination of pH
Tobacco, Tobacco Products, Nicotine-Containing Products and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco	In-house SOP-NLRC-CL-029	Essential oil extract content on wet and dry weight
	In-House SOP-NLRC-CL-040	Determination of free-base nicotine Content in tobacco and tobacco products

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<p>Products/Cigar/Molasses/Electronic Nicotine Products).</p>	<p>In-House SOP-NLRC-PRL-012/ISO 4389</p>	<p>Determination of pesticide residues by using GC- MS/MS</p> <ul style="list-style-type: none"> • BHC-Alpha • Hexachlorobenzene • BHC-Beta • BHC-Gamma • BHC-Delta • Formothion • Heptachlor • Aldrin • Heptachlor exo-epoxide-Isomer B • Heptachlor-endo-epoxide-Isomer A • Chlordane-trans (Gamma) • O,P-DDE • Endosulfan-Alpha • Chlordane-cis • Dieldrin • P,P-DDE • O,P-TDE or O,P-DDD • Endrin • Endosulfan-Beta • P,P-DDD or P,P-TDE • O,P-DDT • P,P-DDT • Permethrin-Cis • Permethrin-Trans • Toxaphene
<p>Tobacco, Tobacco Products, Nicotine-Containing Products, and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products) and Its Emissions test (Aerosols Test).</p>	<p>In House SOP-NLRC-CL-036, based on ISO 13110 - 2012 /Coresta RM No.92 & AOAC 968.03:1970</p> <p>In-house SOP-NLRC-CL- 041, based on WHO TobLabNet Official Method SOP 06 June 2016 and Coresta Method N° 60 / Coresta Method N° 81,84.</p>	<p>Menthol content</p> <p>Determination of Humectants Content in tobacco and tobacco products by gas chromatography</p> <ol style="list-style-type: none"> 1. Glycerol 2. Propylene Glycol 3. Triethylene Glycol
<p>Tobacco Products, Agricultural Products, Fertilizer, Soil, Water, Feeds, Food and Beverage Products</p>	<p>In House SOP-NLRC-CL-034 By Gamma Activity Monitor</p>	<p>Radio-nucleide Activity Test ¹³⁴Cs, ¹³⁷Cs, ⁴⁰K, ¹³¹I, ²²⁶Ra, ²²⁸Ra, Tritium, ²³²Th.</p>
<p>Tobacco Products, Cigarettes and Heated Tobacco Products</p>	<p>In-House SOP-NLRC-CL-046</p>	<p>Gravimetric and statistical analysis of cigarette parts/components and nicotine yield</p> <ul style="list-style-type: none"> • Cigarette Weight

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		<ul style="list-style-type: none"> • Tobacco Weight • Non-Tobacco Mass • Filter Weight • Cigarette Paper Weight
Tobacco Products, Electronic Nicotine Products, Heated Tobacco Products and Personal Care Products	In-House SOP-NLRC-AL-098	Determination Of Ethylene Glycol and Diethylene Glycol by LC MS/MS.
Tobacco Products, Electronic Nicotine Products & Nicotine-Containing Products	In-house SOP-NLRC-AL-082	Determination of Sorbitol Content by UHPLC-MS/MS
Tobacco Product (Fine paper-cigarettes paper, plug wrap paper, and tipping paper)	In-house SOP-NLRC-CL-043, based on ISO 2965:2019 ed.4 and CORESTA Method N°40, October 1994	Determination of the air permeability on fine paper
Tobacco Products, Heated Tobacco Products, Electronic Nicotine Products.	In-House SOP-NLRC-CL-050	Determination of Benzoic Acid and Sorbic Acid Content by HPLC
	In-House SOP-NLRC-CL-059	Determination Of Alpha Glycerophosphoric Acid and Ortho Phosphoric Acid
Tobacco Product, Molasses	In-House SOP -NLRC-CL-060	Estimation of Tobacco Percentage
Tobacco products and Nicotine-Containing Products	In-house SOP-NLRC-CL-042	Determination of phosphorous content
Tobacco Products, Nicotine-Containing Products, Filter Rod and Related Products (Cigarettes /Heated Tobacco Products /Cigar/Molasses/Electronic Nicotine Products/Dokha) and Its Emissions test (Aerosols Test).	In-House SOP-NLRC-CL-051/ ISO 20714:2019/ ISO 24199:2022 Afnor XP D90-300-2,3/ISO 20768/ Coresta Method N° 59	Chemical composition and impurities analysis by gas Chromatography. <ul style="list-style-type: none"> • Acetone • Methanol • Ethanol • Benzene • Toluene • Ethylene Glycol • Menthol • 1,3-Butanediol • Nicotine • Diethylene glycol • Triacetin
Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test).	In-House SOP-NLRC-CL-047	Determination of Ammonia by using Ion Chromatography
	In-house SOP-NLRC-CL-048	Determination of artificial sweeteners and preservatives in tobacco products & e-liquid by UHPLC MS/MS <ul style="list-style-type: none"> • Benzoic Acid • Sorbic Acid • Acesulfame K • Aspartame • Saccharin • Cyclamic Acid
	In-House SOP-NLRC-CL-049/ Afnor XP D90-300-2,3/ Coresta RM	Determination Of Selected Primary Aromatic Amines

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		<ul style="list-style-type: none"> • 1-Naphthylamine (1-Aminonaphthalene) • 2-Naphthylamine (2-Aminonaphthalene) • 4-Aminobiphenyl
	In-House SOP-NLRC-CL-052/ ISO 24211:2022 /Coresta RM No.74/86/96/ Afnor XP D90-300-2,3	<p>Determination Of Selected Carbonyl Compounds in E-Liquid Products</p> <ul style="list-style-type: none"> • Acetaldehyde • Acetone • Acrolein • n-Butyraldehyde (Butanal) • Crotonaldehyde • Formaldehyde • Propionaldehyde (Propanal) • 2-Butanone (Methyl Ethyl Ketone) • Acetoin(3-hydroxy-2-Butanone) • Diacetyl (2,3-Butadione) • Acetyl Propionyl (2,3-Pentadione)
	In-House SOP-NLRC-CL-054 based on Coresta RM 98/ Afnor XP D90-300-2,3.	<p>Determination Of Trace Elements Content by ICP-MS</p> <ul style="list-style-type: none"> • Mercury • Arsenic • Chromium • Cadmium • Nickel • Lead • Iron • Tin • Copper
	In-House SOP-NLRC-CL-055 based on ISO 20768:2018/24199:2022/ 24197:2022/Coresta Recommended Method No.81,99,100,101/Afnor XP D90-300-2,3/ PAS 8850:2020	<p>Determination of Dry Particulate Matter, Aerosol Condensed Mass, Aerosol Vaporized Mass, Water Yield, Nicotine Yield, Nicotine Consistency, Carbon Monoxide and Nitrogen Oxides Yield.</p>
	In-House SOP-NLRC-CL-056/Coresta RM No. 70/ISO 21330:2018/ Afnor XP D90-300-2,3	<p>Determination Of Selected Volatile Organic Compounds</p> <ol style="list-style-type: none"> 1. Benzene 2. Toluene 3. Acrylonitrile 4. 1,3-Butadiene 5. Isoprene
	In-House SOP-NLRC-CL-057/ Afnor XP D90-300-2,3	<p>Determination of Nicotine by Liquid Chromatography</p>

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<p>Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test). Cosmetics and Personal Care Products, Food and Beverage products. Drinking Potable Water, Bottled Water, Ice, Domestic Water, Potable and Non-Potable Water, Recreational Water, Pool Water, Irrigation Water, Cooling Water, Boiler Water, Wastewater, Raw Sewage and Treated Sewage, Sea Water and Marine Water (Fresh Water, Bilge Water, Ballast Water, Wastewater, Scrubber Water, Grey Water, Black Water, Boiler and Cooling System Water)</p>	<p>In-House SOP-NLRC-CL-053/APHA EPA 351C/EPA8270E Coresta Recommended method NO. 91/ Afnor XP D90-300-2,3</p>	<p>Determination Of Polycyclic Aromatic Hydrocarbon (PAHs) By GC-MS/MS</p> <ul style="list-style-type: none"> • Naphthalene • Acenaphthylene • Acenaphthene • Fluorene • Phenanthrene • Anthracene • Fluoranthene • Pyrene • Benzo(c)phenanthrene • Benz(a)anthracene • Chrysene • Benzo[b]fluoranthene • Dimethylbenz[a]anthracene, <p>7,12-</p> <ul style="list-style-type: none"> • Benzo[k]fluoranthene • Benzo[J]fluoranthene • Benzo[e]pyrene • Benzo[a]pyrene • 3-Methylchlanthrene • Indeno[1,2,3-cd]pyrene • Dibenz[a,h]anthracene • Benzo[g,h,i]perylene • Dibenz[a]pyrene • Dibenz[a,i]pyrene • Dibenz[a,h]pyrene
<p>Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/Cigar /Molasses /Dokha /Electronic Nicotine Products) and Its Emissions test (Aerosols Test).</p>	<p>In House SOP-NLRC-CL-037/ISO 19290/ISO 21766/ISO 20768 & Coresta Recommended Method N° 72,75,102/Afnor XP D90-300-2,3</p>	<p>Nitrosamines (TSNAs)</p> <ol style="list-style-type: none"> 1. N-Nitrosornnicotine (NNN) 2. N-Nitrosornnicotine ketone (NNK) 3. N-Nitrosoanatabine (NAT) 4. N-Nitrosoanabasine (NAB)
<p>Toilet cleansers</p>	<p>EAS 793-1: 2020</p>	<p>Determination of Total acidity</p>
<p>Toys</p>	<p>EN 71-1.2,9,11,12</p>	<p>Mechanical and physical properties of toys Safety of toys-Flammability Safety of toys-Organic chemical compounds. - aromatic amines- monomer migration (acrylamide, bisphenol A, formaldehyde, phenol, styrene)- flame retardant Safety of toys-Plasticizer migration Safety of toys - N-Nitrosamines and N-nitrosatable substances</p>
<p>Water, Cosmetics, Food Contact Materials Food Packaging Materials</p>	<p>AFPS GS 2014:01 PAK EN 13130-1</p>	<p>Migration of Polycyclic Aromatic Hydrocarbons (PAHs) Migration of Phthalates</p>

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	EN 13130-1,2,3,7,10	Migration of Terephthalic acid, Acrylonitrile, Ethylene glycol, Diethylene glycol, Acrylamide, Acetaldehyde, Primary Aromatic Amines.
	EN 13130-1,23	Migration of Formaldehyde
	EN 13130-1,27	Migration of Melamine
	EN 13130-1/ISO 6486-2, /ISO 7086-2/ISO 8391-2/ In-House SOP -NLRC-AL-126.	Determination Of Heavy Metal Migration from different types Of Plastic Food Packaging Materials into food simulants using ICP-MS <ul style="list-style-type: none"> • Barium (Ba) • Copper (Cu) • Zinc (Zn) • Iron (Fe) • Manganese (Mn) • Cobalt (Co) • Lead (Pb) • Cadmium (Cd) • Arsenic (As) • Chromium (Cr) • Antimony (Sb) • Nickel (Ni) • Lithium (Li) • Aluminium (Al)
Water, Ground water, Wastewater, Marine and sea water and industrial Water. Potable and Non-Potable Water.	HACH Method 10254,8131	Determination of Hydrogen Sulfide & Sulfide
Water microbiology Drinking Potable Water, Bottled Water, Ice, Domestic Water, Potable and Non-Potable Water, Recreational Water, Pool Water, Irrigation Water, Cooling Water, Boiler Water, Wastewater, Raw Sewage and Treated Sewage, Sea Water and Marine Water (Fresh Water, Bilge Water, Ballast Water, Wastewater, Scrubber Water, Grey Water, Black Water, Boiler and Cooling Water.	APHA 9215B	Heterotrophic Plate Count
	APHA 9222B	Enumeration of Total Coliform by Membrane Filtration Method
	APHA 9222 B & H	Enumeration of E. coli by Membrane Filtration Method
	APHA 9222D	Enumeration of Fecal Coliform by Membrane Filtration Method
	APHA 9230 C	Enumeration of Fecal Streptococcus by Membrane Filtration Method
	APHA 9610 D	Enumeration of Yeast & Mould in water by Membrane Filtration Method
	C.C.F.R.A:2.8.2: 2007	Enumeration of Sulphite Reducing Clostridia by Membrane Filtration Method
	In house SOP NLRC-MML-093	Qualitative Detection and Differentiation of specific DNA sequences of Legionella spp. and Legionella pneumophila based on real-time polymerase chain reaction (RT-PCR) Method
In house SOP-NLRC-MML-094	Detection & Enumeration of pathogens in water	

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	In house SOP-NLRC-MML-099	Detection of Parasites in water
	ISO 11731:2017	Detection & Enumeration of Legionella in water by Membrane Filtration Method
	ISO 16266:2006	Enumeration of Pseudomonas Aeruginosa by Membrane Filtration Method
Water, Sodium Hypochlorite Solution	GSO 801:1997	Determination Of Chlorate, Bromate, Perchlorate Content By Chromatographic Method