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International Accreditation Service, Inc.

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NATIONAL LABORATORY & RESEARCH CENTER

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Accredited to ISO/IEC 17025:2017

Effective Date December 11, 2025

Chemical, Microbiology and Physical		
Alcoholic and Non-Alcoholic Beverage, Carbonated Water, Energy Drinks, Agricultural Products, Fruit Juice & Food Products	NLRC-SOP-AL-066	Determination of Ascorbic Acid (Vitamin C)
Alcoholic and Non-Alcoholic Beverages, Food Products, Carbonated Water, Energy Drinks, Agricultural and fruits products.	NLRC-SOP-AL-061 AOAC 990.28 AOAC 963.11 AOAC 990.31	Determination Of Sulphur Dioxide Content
Alcoholic and Non-Alcoholic Beverages, Carbonated Water, Energy Drinks, Fruits, Food Products, Juices, Agricultural, and Fruit Products.	NLRC-SOP-AL-065	Determination Of Sulfur Dioxide (Sulfiting Agent)
Alcoholic and Non-Alcoholic Beverages, Food, Water, Energy Drinks, Fruit Juice & Food Products	NLRC-SOP-AL-079	Determination Of Cyanocobalamin (Vitamin B12) by UHPLC-MS/MS
Beverage & Food Products	NLRC-SOP-AL-083	Determination of food additives and artificial sweeteners 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	NLRC-SOP-AL-051	Determination of HMF by UHPLC-DAD
Beverage, Food products & Dairy Products, Cosmetics, Household, and Personal Care Products.	NLRC-SOP-AL-063 based on AOAC Official Method 935.57 and 950.15 and 942.15 and	Determination of Total Acidity by End Point/Equivalence Point Potentiometric Titration

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	Mettler Toledo Application Notes	
Beverage Products, Carbonated water and Carbonated Products	NLRC-SOP-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.	NLRC-SOP-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	NLRC-SOP-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)

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Beverages, Food Products, and Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products Cosmetics and Personal Care Products & Household Care Products (cont'd.)		<ul style="list-style-type: none"> • Brilliant Blue FCF (E133) • Erythrosin B disodium (E127) • Patent Blue V (E131)
Beverages, Water and Food Products	NLRC-SOP-AL-090	Visual Inspection and Sensory Evaluation Test
Chemical Depilatories	UAE.S GSO 1196	Topical Test (Sensitivity Test)
Cigarette (Tobacco and Tobacco Products)	NLRC-SOP-CL-004	Apparent density of the cigarettes
	NLRC-SOP-CL-015	Basic weight of wrapped paper of the cigarettes
	ISO 2971	Cigarettes and filter rods- Determination of nominal diameter – method using a non-contact optical measuring apparatus (Circumference)
	ISO 3550-1	Cigarettes — Determination of loss of tobacco from the ends
	ISO 4387	Length of tobacco column for filter-tipped cigarettes
		Cigarettes — Determination of total and nicotine-free dry particulate matter using a routine analytical smoking machine
		<ul style="list-style-type: none"> • Determination of Total Particulate Matter • Determination of Butt Mark
	ISO 4387 / ISO 8454	Determination of Puff Number/Puff Count
ISO 6565	Tobacco and tobacco products- Draw resistance of cigarettes and pressure drop of filter rods- Standard conditions and measurement	
ISO 8454	Cigarettes — Determination of carbon monoxide in the vapour phase of cigarette smoke — NDIR method	



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	ISO 9512	Cigarettes – Determination of ventilation- Definition and measurement principles
	ISO 10315	Cigarettes — Determination of nicotine in total particulate matter from the mainstream smoke — Gas-chromatographic method
	ISO 10362-1,2	Determination of water in total particulate matter from the mainstream smoke
Cigarette, Tobacco Products, Heated Tobacco Products	NLRC-SOP-CL-005	<ul style="list-style-type: none"> • Weight of the cigarette • Hardness (Middle Point) • Diameter and Circumference of cigarettes • Softness of 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, Nicotine Pouches and Related Products	ISO 8243 / NLRC-WI-12	Sampling of Products
Cosmetic Products – Nail Polish (Nail Enamel)- Test Methods	UAE.S /GSO 1888	Scratch Test
	NLRC-SOP-AL-028 UAE.S /GSO 1888	Adhesion Test
	NLRC-SOP-AL-029	Blush Test
	UAE.S /GSO 1888	
Cosmetics, Detergent, Household Care Products, and Personal Care Products	NLRC-SOP-AL-015	Determination of 1,4-Dioxane by GC-MS/MS
Cosmetics, Personal Care, Household Care Products and Detergents Products, e-liquid products.	NLRC-SOP-AL-042	Determination of isothiazolone biocides by UHPLC-MS/MS <ul style="list-style-type: none"> • MIT • CMIT • BIT



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Cosmetics & Personal Care Products	Directive 80/1335/EEC (Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis.	Determination of Zinc 4-hydroxybenzenesulphonate content Determination of Silver Nitrate
	GSO 2239 / ASTM D1681	Detection of alkyl aryl sulphonates/ Standard Test Method for Synthetic Anionic Active Ingredient in Detergents by Cationic Titration Procedure
	NLRC-SOP-AL-026	Determination of Melting and Boiling Point by using Mettler Toledo MP80.
	NLRC-SOP-AL-115 based on ISO 15819	Determination of Selected Nitrosamines By LC-MS/MS 1. N-Nitrosodiethanol Amine (NDELA) 2. N-Nitrosodiisopropanol Amine (NDIPLA)
Cosmetic and Personal Care Products - Chemical Depilatories	UAE.S GSO 1196	Determination of Sulphide Skin Irritation Test
Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap	NLRC-SOP-AL-101/ ISO 673	Content Of Matter Insoluble in Alcohol
	NLRC-SOP-AL-134 ISO 2271 ISO 2871-1	Determination of Surface-Active Agent (Total Active Ingredients/Active ion ingredient) Anionic Surfactant Non-Ionic Surfactant Cationic Surfactant
Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap, Food, Beverage, Dairy Products	NLRC-SOP-AL-124	Determination Of EDTA by LC-MS/MS
Cosmetics and Personal Care Products, Detergents, Soap, Disinfectants, and Household Care Products.	NLRC-SOP-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.	NLRC-SOP-AL-113	Moisture & Volatile Matter, Non-Volatile Matter and Total Solids
Cosmetic and Personal Care Products -Facial Tissue - Paper	UAE.S GSO 143	Determination of Water Absorption
Cosmetic and Personal Care Products, Facial Tissue, Paper-Carton board, Textile Leather Products	GSO 143	Method of testing facial tissue-paper Inclusion –



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		Measurement of Dimensions (clause 4) Determination of Tensile strength (Clause 7)
	ISO 13934-1	Textiles- Tensile properties of fabrics- Part 1: Determination of maximum force and elongation at maximum force using the strip method
	ISO 13937-1	Textile – Tear properties of fabrics – Part 1: Determination of tear force using ballistic pendulum method (Elmendorf)
	ISO 13937-2	Textile – Tear properties of fabrics- Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)
Cosmetics and Personal Care Products, Food Products & Edible Oils	NLRC-SOP-AL-008 ISO 3960 ISO 27107	Determination of Peroxide Value
	NLRC-SOP-AL-009 based on ISO 39961 and AOAC 993.20	Determination of Iodine Value
Cosmetic and Personal Care Products -Hair Conditioners (Balsam)	UAE.S/GSO 2064	Determination of Fatty Alcohol
Cosmetics and Personal Care Products, Hair Cream	UAE.S GSO 1155	Determination of Total Non-Aqueous Content
Cosmetics And Personal Care Products, Household Care Products	NLRC-SOP-AL-011 GSO 427	Determination of Hydrogen Peroxide Content
	NLRC-SOP-AL-100	Toxic Volatile Organic Compound in Cosmetics and Personal Care Products 1. 1,4-Dioxane 2. Benzene 3. Toluene 4. Chloroform
Cosmetics and Personal Care Products/Household care Products/Air fresheners	GSO 660	Determination of Delivery Rate of Aerosol Product Flammability Test
	GSO 660 / EOS 8283	Hot Water Immersion Test

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	NLRC-SOP-AL-137	Determination of Chloro-fluorocarbon compounds
Cosmetics, Personal Care Products, Household Care Products & Detergents	NLRC-SOP-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.	NLRC-SOP-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 • Propyl paraben • Butyl paraben
Cosmetics, Perfume, Personal care, Household Care Products, Detergent, Soap, Disinfectants, Fertilizer, Beverage & Food products	NLRC-SOP-AL-020 based on UAE.S/GSO1153 UAE.S GSO1202 UAE.S GSO2239 UAE.S GSO ISO 4316 UAE.S GSO 691 UAE.S GSO 427 UAE.S/GSO2064 UAE.S GSO 395 UAE.S GSO 2062 UAE.S GSO 1155 UAE.S GSO 1098 UAE.S/GSO 2060 UAE.S GSO 1196 UAE.S GSO 875 UAE.S GSO 1218 GSO 2017 UAE.S GSO 1947 UAE.S GSO 2242 UAE.S/GSO 1949	Determination of pH Value by Using T9 Auto Titrator with pH Electrode



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	UAE.S/GSO 2018	
Cosmetics, Personal care, Detergents, Perfumes, food, and beverages, Electronic Nicotine Products, essential oil and Industrial solvents liquids.	NLRC-SOP-AL-021 Based on ASTM D4052 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.	NLRC-SOP-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	NLRC-SOP-AL-25	Determination of Water Content by KF Volumetric Titration
Cosmetics And Personal Care Products, Household Care Products & Soap Products	NLRC-SOP-AL-150	Determination of Selected Organic Compounds Content by HPLC <ul style="list-style-type: none"> • Hydroquinone • Resorcinol • Phenylenediamine Compounds • Naphthol • Aminophenol Compounds
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).	NLRC-SOP-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	Method of test for Lip Sticks Inclusion – Breaking Load Test (Clause 5)
Cosmetics & Personal Care Products, Lipstick slave	NLRC-SOP-AL-022 Based on UAE.S /GSO 2019 UAE.S /GSO 1896 ASTM D2265	Determination of dropping and softening point by using Mettler Toledo dropping point system Dp70



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Cosmetics and Personal Care Products/Household care Products/Liquid Glass Cleaner	UAE.S GSO 883	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.	ISO 13736	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	NLRC-SOP-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/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test).	NLRC-SOP-AL-005 Based on International Fragrance Association (IFRA), Bruker Application Note GC-MS 08 & GL Sciences Application Note:113/ Afnor XP D90-300-2,3	ALLERGENS <ul style="list-style-type: none"> • Amyl cinnamyl alcohol • Amyl cinnamal • Anisyl alcohol • Benzyl Benzoate • Benzyl alcohol • Benzyl cinnamate • Benzyl salicylate • Cetone alpha (Alpha-Isomethyl ionone) • Cinnamaldehyde (Cinnamal) • Cinnamyl alcohol • b-Citronellol • Coumarin • Citral (Niral & Geranial) • D-Limonene • Eugenol • Farnesol • Geraniol • Hexylcinnamaldehyde



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Cosmetics and Personal Care Products, Perfumery 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). (cont'd.)		<ul style="list-style-type: none"> Hydroxycitronellal Isoeugenol Lilial Linalool Lylal Methylheptyne carbonate Evernia prunastri (oak moss) Evernia furfuracea (tree moss)
Cosmetics and Personal Care Products, Petroleum Jelly	NLRC-SOP-AL-086	Sulphur And Sulphides Test
Cosmetic and Personal Care Products -Vaseline (Petroleum Jelly)	GSO 1118	Determination Of Consistency test and sulphated ash
Cosmetic and Personal Care Products-Shaving Soap	GSO 886	Measurement of lather volume
Cosmetic and Personal Care Products -Skin Cream	GSO 1153	Determination of Total Content of Fatty Substances (Fatty Matter)
	EAS 786	Determination of Total Content of Fatty Substances (Fatty Matter)
	NLRC-SOP-AL-050 based on ISO 24443	Determination of Sun Protection Factor (SPF)
Cosmetics, Personal Care Products & Soap	NLRC-SOP-AL-102 based on Directive 95/32/EC Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis	Determination of Hydroquinone and related compounds.
Cosmetics and Personal Care Products, Thioglycolic Acid Containing Products	NLRC-SOP-AL-094	Determination of Thioglycolic Acid
Cosmetics and Personal Care Products, Urea Containing Products.	NLRC-SOP-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	NLRC-SOP-AL-138	Determination of Selected Organic Compounds, Anti-dandruff Substances and UV filters, Alpha-Hydroxy Acid (AHAs) and Formaldehyde Releaser Preservatives <ul style="list-style-type: none"> Minoxidil



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Cosmetics and Personal Care Products, Water, Beverage, Food Products and Tobacco Products (cont'd.)	NLRC-SOP-AL-138 (cont'd.)	<ul style="list-style-type: none"> • Zinc pyrithione • Piroctone Olamine • Ketoconazole • Climbazole • 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	Disposal of perfume test & Disposal of materials dissolved in water test.
Detergents & Disinfectants, Disinfected Water, Antiseptics and Related Disinfected Products	NLRC-SOP-AL-031 based on GSO 801	Available Chlorine As (Sodium Hypochlorite Content) In Detergents and Disinfectants
Detergent Products & Household Care Products	EAS 383	Inorganic Salts Content

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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	NLRC-SOP-AL-010 Based on ASTM D 2180 – 89 & UAE. GSO ISO 4321	Determination of Active Oxygen Content (Perborate Content)
Disinfectants	NLRC-SOP-AL-032 based on UAE S and 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)	NLRC-SOP-AL-159/ 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
	NLRC-SOP-AL-040/ APHA 2320 B	Determination Of Alkalinity (as mg/L CaCO ₃) in water by using Auto Titrator.
	NLRC-SOP-AL-041 APHA 2340 B & C	Determination Of Total Hardness (mg/L As CaCO ₃) In Water By EDTA, Titrimetric Method
	NLRC-SOP-AL-043 APHA 2320B	Determination of Carbonates and Bicarbonates
	NLRC-SOP-AL-044/ APHA 2120 C Spectrophotometric- Single wavelength method	Determination of color of water by using uv-visible spectrophotometer
	NLRC-SOP-AL-045/ APHA method 4500-H+ B.	Determination of pH in water using pH meter
	NLRC-SOP-AL-046 APHA METHOD 2540 B	Determination of total solids in water
	NLRC-SOP-AL-047/ APHA Method 2540 C.	Determination of Total Dissolved Solids
	NLRC-SOP-AL-048/ APHA 2540 D	Determination of total suspended solids in water
NLRC-SOP-AL-049/ 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 	



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<p>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) (cont'd.)</p>		<ul style="list-style-type: none"> • Barium • Boron • Beryllium • Chromium • Manganese • Molybdenum • Selenium • Iron • Antimony • Lead • Nickel • copper • Zinc • Cobalt • Vanadium • Thallium • Uranium • Cadmium • Magnesium • Potassium • Sodium • Calcium • Mercury • Aluminum • Silicon • Strontium • Silver
	<p>NLRC-SOP-AL-053/ APHA 4500 Cl G</p>	<p>Determination Of Chlorine (Free & Total) & Chloramine (Mono) In Water using UV-Visible Spectrophotometer</p> <ol style="list-style-type: none"> 1. Chlorine 2. Monochloramine
	<p>NLRC-SOP-AL-054/ APHA 5210 B</p>	<p>Determination of Biochemical Oxygen Demand in water.</p>
	<p>NLRC-SOP-AL-055 ISO 9697& ISO 9696</p>	<p>Determination of gross alpha, and beta-activity by Radioactivity Counter</p> <ol style="list-style-type: none"> 1. Gross Alpha 2. Gross Beta
	<p>NLRC-SOP-AL-056/ APHA 5220 D</p>	<p>Determination of Chemical Oxygen Demand by Using Photometer</p>
	<p>NLRC-SOP-AL-057/ APHA 2130 B</p>	<p>Determination of turbidity of water by using Turbidimeter</p>
	<p>NLRC-SOP-AL-059 APHA 2510 B/2520B ISO 7888</p>	<p>Determination of specific conductivity of water by using Conductivity Meter.</p>

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<p>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) (cont'd.)</p>	<p>NLRC-SOP-AL-060/ EPA 522</p>	<p>Determination of 1,4-Dioxane in Water by Solid Phase Extraction (SPE) using Gas Chromatography/Mass Spectrometry (GC-MS/MS)</p>
	<p>NLRC-SOP-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

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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) (cont'd.)	NLRC-SOP-AL-069 based on USEPA 525.3, USEPA 8270D & USEPA 550.1	Determination of Semivolatile Organic Chemicals in Water by Solid Phase Extraction and Gas Chromatography/ Mass Spectrometry (GC-MS/MS) <ol style="list-style-type: none"> 1. DEHP 2. Benzo (a) pyrene 3. Bisphenol- A
	NLRC-SOP-AL-070 based on EPA 557 & USEPA 552.2	Determination of Haloacetic Acids (HAA's) In Water by using Triple Quadrupole LC-MS/MS. <ul style="list-style-type: none"> • Bromoacetic acid • Bromochloroacetic acid • Bromodichloroacetic acid • Chloroacetic acid • Dibromoacetic acid • Dichloroacetic acid • Tribromoacetic acid • Trichloroacetic acid • Dibromochloro acetic acid • Dalapon
	NLRC-SOP-AL-071 based on 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
	NLRC-SOP-AL-073 based on 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
	NLRC-SOP-AL-074/ APHA 5310B	Determination of Total Organic Carbon (TOC) In Water by Using UV-Visible



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	NLRC-SOP-AL-075/ APHA 2150 B & 2160 B	Determination of odour & taste in Drinking water
	NLRC-SOP-AL-091	Determination Of Epichlorohydrin by GC-MS Purge and Trap
	NLRC-SOP-AL-092 based on HACH 8027	Determination Of Cyanide using UV-Visible Spectrophotometer
	NLRC-SOP-AL-096	Determination of Acrylamide in water using Quechers Workflow by Triple Quadrupole LC MS/MS
	NLRC-SOP-AL-097 based on EPA 544	Determination of Microcystin-LR in Water Using Quechers Workflow by Triple Quadrupole LC MS/MS
	NLRC-SOP-AL-104/ APHA 5520B	Determination Of Oil and Grease in Water by Using Extraction Method
	NLRC-SOP-AL-114	Determination Of Inorganic Cations by Ion Chromatography <ul style="list-style-type: none"> • Sodium • Ammonium • Potassium • Magnesium • Calcium
	NLRC-SOP-AL-118 based on APHA 5540, HACH LCK332 & HACH 8025	Determination of Surface Active Agent in Water by using UV – Visible Spectrophotometer.
	NLRC-SOP-AL-119 based on WHO SDE WSH 07.01/3	Determination of Cyanuric acid in water by Triple Quadrupole by LC-MS/MS
	NLRC-SOP-AL-133	Determination Of N-nitrosodimethylamine
	NLRC-SOP-PRL-010 based on USEPA 525.2	Determination Of Pesticide Residues in Water by Liquid-Liquid Extraction Using Gas Chromatography/Mass Spectrometry (GC-MS/MS) <ul style="list-style-type: none"> • Alachlor



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	NLRC-SOP-PRL-011 based on Based on 6610B & 6640 B	Multi-Residue Pesticide Analysis in Water by Multiple Reaction Monitoring (MRM) Using Triple Quadrupole LC-MS/MS <ul style="list-style-type: none"> • Aldicarb • Carbofuran&3-Hydroxy Carbofuran • Cyanazine • Dimethoate • Hydroxy atrazine • Molinate • 2,4 –Dichlorophenoxy acetic acid <ul style="list-style-type: none"> • 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	NLRC-SOP-AL-099	Determination of Triclosan and Triclorocarban by UHPLC-MS/MS
Food and agricultural products, Household care products, personal care Products & Cosmetics, Soils and Fertilizers, Marine	NLRC-SOP-AL-152 based on AOAC Method 2015.01	Determination of trace metals content by micro digestion by using ICP-MS, Total

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<p>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>US FDA Elemental Analysis Section 4.7. USDA CLG-TM3.06/ ISO 21392</p>	<p>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/Mo-lasses/Nicotine Pouches/Electronic Nicotine Products) and Its Emissions test (Aerosols Test)</p>	<p>NLRC-SOP-AL-037</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>NLRC-SOP-AL-153 based on ISO 12966-4/AOAC 996.06 Determination of fatty acid methyl esters, Saturated fat, Unsaturated fat</p>	<p>Fatty Acids methyl ester</p> <ol style="list-style-type: none"> 1. Palmitic acid methyl ester (C16:0) 2. Palmitoleic acid methyl ester (C16:1) 3. Heptadecanoic acid



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<p>Food and beverage products, vegetables and animal fats and oils (cont'd.)</p>	<p>and trans-fat by capillary gas chromatography</p>	<p>methyl ester (17:0)</p> <ol style="list-style-type: none"> 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. Linoleic 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-Docosadienoic 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
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<p>Food and beverage products, vegetables and animal fats and oils (cont'd.)</p>	<p>NLRC-SOP-AL-153 based on ISO 12966-4/AOAC 996.06 Determination of fatty acid methyl esters, Saturated fat, Unsaturated fat and trans-fat by capillary gas chromatography (cont'd.)</p>	<p>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 (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/ Nicotine Pouches/Electronic Nicotine Products) and Its Emissions test (Aerosols Test).</p>	<p>NLRC-SOP-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,</p>	<p>NLRC-SOP-AL-072 based on WHO SDR WSH 03.04/58</p>	<p>Determination of EDTA & NTA</p> <p>1. NTA (Nitraloacetic Acid)</p>