



INTERNATIONAL  
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# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **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 December 11, 2025



*International Accreditation Service*  
Issued under the authority of IAS management

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

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[www.nlrc-ae.com](http://www.nlrc-ae.com)

**Contact Name** ALAA SAAD

**Contact Phone** +971-529274969

*Accredited to ISO/IEC 17025:2017*

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<b>Chemical, Microbiology and Physical</b>		
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"><li>• Benzoic Acid,</li><li>• Sorbic Acid</li><li>• Caffeine,</li><li>• Ascorbic Acid</li><li>• Citric Acid,</li><li>• Acesulfame K</li><li>• Saccharine,</li><li>• Aspartame</li><li>• Cyclamic acid</li></ul>
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

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 2 of 86

IAS/TL/100-1



# SCOPE OF ACCREDITATION

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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"> <li>1. Glycerol</li> <li>2. Fructose</li> <li>3. Glucose</li> <li>4. Sucrose</li> <li>5. Maltose</li> <li>6. Lactose</li> <li>7. Total Sugar</li> <li>8. Added Sugar</li> <li>9. Natural Sugar</li> </ol>
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"> <li>• Tartrazine (E102)</li> <li>• New Red</li> <li>• Amaranth (E123)</li> <li>• Indigo Carmine (Indigotine) (E132)</li> <li>• Ponceau 4RC (E124)</li> <li>• Sunset Yellow (E110)</li> <li>• Brilliant Black BN (E151)</li> <li>• Allura Red AC (E129)</li> <li>• Acid Red 2G (Acid Red 1) (E128)</li> <li>• Green S (Acid green 50) (E142)</li> <li>• Carmoisine (Azorubin) (E122)</li> <li>• Quinoline Yellow (E104)</li> <li>• Fast Green FCF (E143)</li> </ul>

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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"> <li>• Brilliant Blue FCF (E133)</li> <li>• Erythrosin B disodium (E127)</li> <li>• Patent Blue V (E131)</li> </ul>
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"> <li>• Determination of Total Particular Matter</li> <li>• Determination of Butt Mark</li> </ul>
	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"> <li>• Weight of the cigarette</li> <li>• Hardness (Middle Point)</li> <li>• Diameter and Circumference of cigarettes</li> <li>• Softness of cigarettes</li> <li>• Firmness of the Cigarettes</li> <li>• Depressed diameter of the Cigarettes</li> <li>• Depression of the Cigarettes</li> <li>• Point of contact diameter of the Cigarettes</li> </ul>
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	Adhesion Test
	UAE.S /GSO 1888	Blush Test
	NLRC-SOP-AL-029	
	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"> <li>• MIT</li> <li>• CMIT</li> <li>• BIT</li> </ul>

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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 –

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 6 of 86

IAS/TL/100-1



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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

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 7 of 86

IAS/TL/100-1



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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"> <li>• 4-Hydroxy Benzoic Acid</li> <li>• Methylisothiazolinone (MIT)</li> <li>• Salicylic Acid</li> <li>• Benzoic Acid</li> <li>• Methylchloroisothiazolinone (CMIT)</li> <li>• Sorbic Acid</li> <li>• 2-phenoxy ethanol</li> <li>• Dehydroxy acetic acid</li> <li>• Methyl paraben</li> <li>• Ethyl paraben</li> <li>• Propyl paraben</li> <li>• Butyl paraben</li> </ul>
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"> <li>• Hydroquinone</li> <li>• Resorcinol</li> <li>• Phenylenediamine Compounds <ul style="list-style-type: none"> <li>• Naphthol</li> <li>• Aminophenol Compounds</li> </ul> </li> </ul>
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"> <li>• Paraben (4-Hydroxy Benzoic Acid) (PHBA)</li> <li>• Methyl Paraben</li> <li>• Ethyl Paraben</li> <li>• Isopropyl Paraben</li> <li>• Propyl Paraben</li> <li>• Isobutyl Paraben</li> <li>• Butyl Paraben</li> <li>• Benzyl Paraben</li> <li>• Heptyl Paraben</li> </ul>
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

TL-1167

NATIONAL LABORATORY & RESEARCH CENTER

Effective Date December 11, 2025

Page 9 of 86

IAS/TL/100-1



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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	<b>ALLERGENS</b> <ul style="list-style-type: none"> <li>• Amyl cinnamyl alcohol</li> <li>• Amyl cinnamal</li> <li>• Anisyl alcohol</li> <li>• Benzyl Benzoate</li> <li>• Benzyl alcohol</li> <li>• Benzyl cinnamate</li> <li>• Benzyl salicylate</li> <li>• Cetone alpha (Alpha-Isomethyl ionone) <ul style="list-style-type: none"> <li>• Cinnamaldehyde (Cinnamal) <ul style="list-style-type: none"> <li>• Cinnamyl alcohol</li> <li>• b-Citronellol</li> <li>• Coumarin</li> <li>• Citral (Niral &amp; Geranial) <ul style="list-style-type: none"> <li>• D-Limonene</li> <li>• Eugenol</li> <li>• Farnesol</li> <li>• Geraniol</li> <li>• Hexylcinnamaldehyde</li> </ul> </li> </ul> </li> </ul> </li> </ul>

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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"> <li>• Hydroxycitronellal</li> <li>• Isoeugenol</li> <li>• Lilial</li> <li>• Linalool</li> <li>• Lyral</li> <li>• Methylheptyne carbonate                             <ul style="list-style-type: none"> <li>• Evernia prunastri (oak moss)</li> <li>• Evernia furfuracea (tree moss)</li> </ul> </li> </ul>
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"> <li>• Minoxidil</li> </ul>

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 11 of 86

IAS/TL/100-1



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<p>Cosmetics and Personal Care Products, Water, Beverage, Food Products and Tobacco Products (cont'd.)</p>	<p>NLRC-SOP-AL-138 (cont'd.)</p>	<ul style="list-style-type: none"> <li>• Zinc pyrithione</li> <li>• Piroctone Olamine</li> <li>• Ketoconazole</li> <li>• Climbazole</li> <li>• Ciclopirox olamine</li> <li>• Octinoxate</li> <li>• Octisalate</li> <li>• Avobenzene</li> <li>• Oxybenzone</li> <li>• Homosalate</li> <li>• Octocrylene</li> <li>• Ensulizole</li> <li>• Benzophenone</li> <li>• P-Aminobenzoic acid</li> <li>• Sulisobenzene</li> <li>• Padimate O</li> <li>• 3-Benzylidenecamphor</li> <li>• 3-(4-Methylbenzylidene)Camphor</li> <li>• Oxalic Acid</li> <li>• Propionic acid</li> <li>• Citric Acid</li> <li>• Glycolic Acid</li> <li>• Malic Acid</li> <li>• Tartaric Acid</li> <li>• Boric Acid</li> <li>• Chlorophensin</li> <li>• DMDM Hydanation</li> <li>• ImidUrea</li> <li>• Diazolidinyl Urea</li> <li>• Qauternium-15</li> <li>• Diporopylene glycol</li> <li>• Chlorhexidine</li> <li>• Chlorhexidine Digluconate</li> <li>• Catechol</li> <li>• Quinine</li> <li>• Octamethylcyclotetrasiloxane</li> </ul>
<p>Cosmetic and Personal Care Products -Wet wipes</p>	<p>UAE.S/GSO 2017</p>	<p>Disposal of perfume test &amp; Disposal of materials dissolved in water test.</p>
<p>Detergents &amp; Disinfectants, Disinfected Water, Antiseptics and Related Disinfected Products</p>	<p>NLRC-SOP-AL-031 based on GSO 801</p>	<p>Available Chlorine As (Sodium Hypochlorite Content) In Detergents and Disinfectants</p>
<p>Detergent Products &amp; Household Care Products</p>	<p>EAS 383</p>	<p>Inorganic Salts Content</p>

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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 <sub>3</sub> ) in water by using Auto Titrator.
	NLRC-SOP-AL-041 APHA 2340 B & C	Determination Of Total Hardness (mg/L As CaCO <sub>3</sub> ) 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"> <li>• Arsenic</li> </ul>	

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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"> <li>• Barium</li> <li>• Boron</li> <li>• Beryllium</li> <li>• Chromium</li> <li>• Manganese</li> <li>• Molybdenum</li> <li>• Selenium</li> <li>• Iron</li> <li>• Antimony</li> <li>• Lead</li> <li>• Nickel</li> <li>• copper</li> <li>• Zinc</li> <li>• Cobalt</li> <li>• Vanadium</li> <li>• Thallium</li> <li>• Uranium</li> <li>• Cadmium</li> <li>• Magnesium</li> <li>• Potassium</li> <li>• Sodium</li> <li>• Calcium</li> <li>• Mercury</li> <li>• Aluminum</li> <li>• Silicon</li> <li>• Strontium</li> <li>• Silver</li> </ul>
	<p>NLRC-SOP-AL-053/ APHA 4500 Cl G</p>	<p>Determination Of Chlorine (Free &amp; Total) &amp; Chloramine (Mono) In Water using UV-Visible Spectrophotometer</p> <ol style="list-style-type: none"> <li>1. Chlorine</li> <li>2. Monochloramine</li> </ol>
	<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&amp; ISO 9696</p>	<p>Determination of gross alpha, and beta-activity by Radioactivity Counter</p> <ol style="list-style-type: none"> <li>1. Gross Alpha</li> <li>2. Gross Beta</li> </ol>
	<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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	NLRC-SOP-AL-068/ APHA 6200B/ USEPA 524.3,4	Determination Of Concentration of the Volatile Organic Compounds (VOCs) In Water by GC-MS Purge and Trap. <ul style="list-style-type: none"> <li>• Vinyl chloride</li> <li>• Methylene chloride</li> <li>• trans-1,2-Dichloroethene</li> <li>• cis-1,2-dichloroethene</li> <li>• Chloroform</li> <li>• Carbon Tetrachloride</li> <li>• 1,1,1-trichloroethane</li> <li>• Benzene</li> <li>• 1,2-dichloroethane</li> <li>• 1,2-dichloropropane</li> <li>• Bromodichloromethane</li> <li>• cis-1,3-dichloropropene</li> <li>• Toluene</li> <li>• Tetrachloroethene</li> <li>• trans-1,3-dichloropropene</li> <li>• 1,1,2-trichloroethane</li> <li>• Dibromochloromethane</li> <li>• 1,2-dibromoethane</li> <li>• Ethylbenzene</li> <li>• m-Xylene+p-Xylene</li> <li>• o-Xylene</li> <li>• Styrene</li> <li>• Bromoform</li> <li>• 1,4-Dichlorobenzene</li> <li>• 1,2-Dichlorobenzene</li> <li>• 1,2-dibromo-3-chloro-propane</li> <li>• Hexachlorobutadiene</li> </ul>

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	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"> <li>• Bromoacetic acid</li> <li>• Bromochloroacetic acid</li> <li>• Bromodichloroacetic acid</li> <li>• Chloroacetic acid</li> <li>• Dibromoacetic acid</li> <li>• Dichloroacetic acid</li> <li>• Tribromoacetic acid</li> <li>• Trichloroacetic acid</li> <li>• Dibromochloro acetic acid</li> <li>• Dalapon</li> </ul>
	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"> <li>1. 2,4,6-Trichlorophenol</li> <li>2. Pentachlorophenol</li> </ol>
	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"> <li>• Di bromoacetonitrile</li> <li>• Di chloroacetonitrile</li> <li>• Bromochloroacetonitrile</li> <li>• Tri chloroacetonitrile</li> <li>• Chloral Hydrate</li> </ul>
	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"> <li>• Sodium</li> <li>• Ammonium</li> <li>• Potassium</li> <li>• Magnesium</li> <li>• Calcium</li> </ul>
	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"> <li>• Alachlor</li> </ul>	

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	<p>NLRC-SOP-PRL-011 based on Based on 6610B &amp; 6640 B</p>	<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"> <li>• Aldicarb</li> <li>• Carbofuran&amp;3-Hydroxy Carbofuran</li> <li>• Cyanazine</li> <li>• Dimethoate</li> <li>• Hydroxy atrazine</li> <li>• Molinate</li> <li>• 2,4 –Dichlorophenoxy acetic acid                             <ul style="list-style-type: none"> <li>• 2,4-Dichlorophenoxybutyric acid</li> </ul> </li> <li>• Dichloroprop</li> <li>• MCPA</li> <li>• Mecoprop</li> <li>• 2,4,5-T</li> <li>• Dicamba</li> <li>• Fenoprop</li> </ul>
<p>Electronic Nicotine Products, Heated Tobacco Products, Household Care Products, Oral and Personal Care Products</p>	<p>NLRC-SOP-AL-099</p>	<p>Determination of Triclosan and Triclorocarbon by UHPLC-MS/MS</p>
<p>Food and agricultural products, Household care products, personal care Products &amp; Cosmetics, Soils and Fertilizers, Marine</p>	<p>NLRC-SOP-AL-152 based on AOAC Method 2015.01</p>	<p>Determination of trace metals content by micro digestion by using ICP-MS, Total</p>

TL-1167

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Effective Date December 11, 2025

Page 18 of 86

IAS/TL/100-1



# SCOPE OF ACCREDITATION

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<p>Sediments, Tobacco &amp; 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"> <li>• Iron (Fe)</li> <li>• Molybdenum (Mo)</li> <li>• Selenium (Se)</li> <li>• Manganese (Mn)</li> <li>• Antimony (Sb)</li> <li>• Lead (Pb)</li> <li>• Chromium (Cr)</li> <li>• Arsenic (As)</li> <li>• Copper (Cu)</li> <li>• Nickel (Ni)</li> <li>• Cadmium (Cd)</li> <li>• Zinc (Zn)</li> <li>• Tin (Sn)</li> <li>• Cobalt (Co)</li> <li>• Silver (Ag)</li> <li>• Sodium (Na)</li> <li>• Magnesium (Mg)</li> <li>• Potassium(K)</li> <li>• Calcium (Ca)</li> <li>• Mercury (Hg)</li> <li>• Phosphorous(P)</li> <li>• Palladium (Pd)</li> <li>• Zirconium (Zr)</li> <li>• Titanium (Ti)</li> <li>• Lithium (Li)</li> <li>• Aluminum (Al)</li> <li>• Silicon</li> <li>• Iodine</li> <li>• Inorganic Tin and Arsenic</li> <li>• Methyl Mercury</li> <li>• NPK ratio, N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O (Fertilizer)</li> </ul>
<p>Food and beverage products</p>	<p>GSO 9</p>	<p>Labeling of Prepackaged Food stuffs</p>
<p>Food &amp; Beverages, 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-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"> <li>1. Palmitic acid methyl ester (C16:0)</li> <li>2. Palmitoleic acid methyl ester (C16:1)</li> <li>3. Heptadecanoic acid</li> </ol>

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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"> <li>4. cis-10-Heptadecenoic acid methyl ester (C17:1)</li> <li>5. Stearic acid methyl ester (C18:0)</li> <li>6. trans-9-octadecenoic methyl ester (C18:1n9t)</li> <li>7. Oleic acid methyl ester (C18:1n9c)</li> <li>8. Linolelaidic acid methyl ester (C18:2n6t)</li> <li>9. Linoleic acid methyl ester (C18:2n6c)</li> <li>10. Arachidic acid methyl ester (C20:0)</li> <li>11. g-Linolenic acid methyl ester (C18:3n6)</li> <li>12. Linolenic acid methyl ester (C18:3n3)</li> <li>13. cis- 11-Eicosenoic acid, methyl ester (20:1)</li> <li>14. Heneicosanoic acid methyl ester (C21:0)</li> <li>15. cis- 11,14-Eicosadienoic acid methyl ester (C20:2)</li> <li>16. Behenic acid methyl ester (C22:0)</li> <li>17. cis- 8,11,14-Eicosatrienoic acid, methyl ester (C20:3n6)</li> <li>18. cis- 11,14,17-Eicosatrienoic acid methyl ester (C20:3n3)</li> <li>19. Erucic acid methyl ester (C22:1n9)</li> <li>20. Arachidonic acid methyl ester (C20:4n6)</li> <li>21. Tricosanoic acid methyl ester (C23:0)</li> <li>22. cis-13,16-Docasadienoic acid, methyl ester (C22:2n6)</li> <li>23. cis- 5,8,11,14,17-Eicosapentaenoic acid methyl ester (C20:5n3)</li> <li>24. Lignoceric acid methyl ester (C24:0)</li> <li>25. Nervonic acid methyl</li> </ol>
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<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 &amp; NTA</p> <p>1. NTA (Nitraloacetic Acid)</p>

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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, 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-058/ APHA 4110B,4110D	Determination of inorganic anions <ul style="list-style-type: none"> <li>• Nitrate (NO<sub>3</sub><sup>-</sup>)</li> <li>• Nitrite (NO<sub>2</sub><sup>-</sup>)</li> <li>• Fluoride</li> <li>• Chlorate</li> <li>• Phosphate</li> <li>• Chloride</li> <li>• Sulfate</li> <li>• Bromide</li> <li>• Bromate</li> <li>• Chlorite</li> <li>• Perchlorate</li> </ul>
Food contact materials & Accessories Water contact materials, Cosmetics containers	NLRC-SOP-AL-125 based on EN 13130-1	Specific migration of Bisphenol- A, Bisphenol- S 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"> <li>• Overall Migration</li> </ul>
Food, Cosmetics	NLRC-SOP-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 962.09	Determination of Crude Fiber.
Food, feed, Agricultural products and Beverage Products	ISO 6865	Determination of Crude Fiber.
Food, feed, Agricultural products and Beverage Products	AOAC 985.29	Determination of Total Dietary Fiber
Food, Feed, Beverage Products, Agricultural Products, Dairy Products, Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products	NLRC-SOP-AL-004 based on AOAC999.07 AOAC 2000.03 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	NLRC-SOP-AL-151	Quantitative Analysis of Selected Phenolic Antioxidant Content by Gas Chromatography <ul style="list-style-type: none"> <li>• Butylated Hydroxy Toluene (BHT)</li> <li>• Butylated Hydroxy Anisole (BHA)</li> </ul>

TL-1167

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Effective Date December 11, 2025

Page 22 of 86

IAS/TL/100-1



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		<ul style="list-style-type: none"> <li>• Tert-ButylHydroQuinone (TBHQ)</li> <li>• Propyl Gallate (PG)</li> </ul>
Foods, feed, food products, and beverages	NLRC-SOP-AL-131/ AOAC 971.10, 995.13	Determination Of Carbohydrates and Energy
	NLRC-SOP-AL-130	Determination of Sugars By HPLC (Glucose, fructose, sucrose, lactose and maltose)
	NLRC-SOP-AL-132  ISO 712, AOAC 930.15, IS 12711 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	NLRC-SOP-AL-128  AOAC 948.22/ 920.39/945.18/ 991.36/960.39/ 922.06/963.15/ 925.12/945.44/ ISO 6492	Fat Determination - Soxhlet Method/Acid hydrolysis/Alkaline hydrolysis
Foods, feed, food products, milk products and beverages, meat products	NLRC-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	Determination Of Total Ash Content by Muffle Furnace
Food, Food Product, Feed and Infant Formula	NLRC-SOP-AL-222 based on 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	NLRC-SOP-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.	NLRC-SOP-AL-121/ AOAC 994.10	Determination Of Cholesterol
Food Products, Animal Feed and Fishery Products	NLRC-SOP-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.	NLRC-SOP-AL-013 Based on ISO 660	Determination of acid number and Free Fatty Acid content by Potentiometric Titration

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 23 of 86

IAS/TL/100-1



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Food Products and Milled Cereal Products	ISO 7305	Determination of fat acidity
Food Products, Plants, Tea products	ISO 14502-1	Total Polyphenolic Content
Germicidal liquid detergent for general purposes	GSO 1948	Stability At Low-Temperature Test
	GSO 1949	Germicidal Activity Test
		Cleaning Efficiency Test
		Stability to Hard Water Test
Honey	NLRC-SOP-AL-064 based on AOAC official methods 962.19	Determination of Free Acidity and Total Acidity in Honey by Potentiometric Titration
	NLRC-SOP-AL-087	Determination of total ash content for honey
	NLRC-SOP-AL-088	Water Insoluble Solids in Honey
Honey Products	NLRC-SOP-AL-067	Determination of Tutin in Honey Products by UHPLC-MS/MS
	NLRC-SOP-AL-095	Determination Of Diastatic Activity in Honey by Phadebas Method
Household Care Products- Air Fresheners	EOS 8283	Aerosol Flammability Test
Household Care Products, Carpet Cleaner	NLRC-SOP-AL-154 based on GSO 461	Determination Of Alkalinity of Liquid Carpet Cleaner
Household Care Products- Cosmetic and Personal Care Products -Hands Wash Liquid	UAE.S/GSO 2018	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	Rinsing Properties Test
		Brightening Agent Test
	UAE.S GSO 152	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).	NLRC-SOP-AL-001 based on AOAC Method 2015.01 US FDA Elemental Analysis Section 4.7. USDA CLG-TM3.06/ ISO 21392	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),

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Effective Date December 11, 2025

Page 24 of 86

IAS/TL/100-1



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		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	Determination of total phosphorus(V) oxide content.
	ISO 8215	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, toys, bag, footwear and components	ISO 22517	Determination of Pesticide residues by GC-MS/MS  <ul style="list-style-type: none"> <li>• BHC-alpha</li> <li>• BHC-beta</li> <li>• BHC-Gamma</li> <li>• BHC-Delta</li> <li>• Hexachlorobenzene</li> <li>• Quintozene</li> <li>• Chlorothalonil</li> <li>• Vinclozolin</li> <li>• Parathion-methyl</li> <li>• Heptachlor</li> <li>• Endrin</li> <li>• Endosulfan II (beta isomer)</li> <li>• p, p'-DDD</li> <li>• o, p-DDT</li> <li>• Endosulfan sulfate</li> <li>• p, p'-DDT</li> <li>• Resmethrin-cis (Cismethrin)</li> </ul>

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Page 25 of 86

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Leather, Textiles, toys, bag, footwear and components (cont'd.)	ISO 22517 (cont'd.)	<ul style="list-style-type: none"> <li>• Bifenthrin</li> <li>• Pyriproxyfen</li> <li>• Lambda Cyhalothrin</li> <li>• Cyfluthrin</li> <li>• Cypermethrin</li> <li>• Etofenprox (Ethofenprox)</li> <li>• Esfenvalerate</li> <li>• Fenvalerate A-alpha</li> <li>• Fenvalerate</li> <li>• Deltamethrin</li> <li>• Azinophosmethyl</li> <li>• Azinophosethyl</li> <li>• Aldrin</li> <li>• Bromophos-ethyl</li> <li>• Captafol</li> <li>• Carbaryl</li> <li>• Chlordane</li> <li>• Chlorfenvinphos</li> <li>• Coumaphos</li> <li>• 2,4-DDE</li> <li>• 4,4-DDE</li> <li>• Diazinon</li> <li>• Dicrotophos</li> <li>• Dieldrin</li> <li>• Dimethoate</li> <li>• Dinoseb and salts</li> <li>• Endosulfan-alpha</li> <li>• Heptachlor epoxide</li> <li>• Malathion</li> <li>• Methamidophos</li> <li>• Methoxychlor</li> <li>• Mirex</li> <li>• Monocrotophos</li> <li>• Parathion</li> <li>• Phosdrin / Mevinphos</li> <li>• Propetamphos</li> <li>• Profenophos</li> <li>• Quinalphos</li> <li>• Toxaphene</li> <li>• Trifluralin</li> </ul>
Lip stick	IS 9832	<p>Gluing and Warpage of Casing</p> <p>Determination of Wear of Slip (pay-off)</p>
Microbiology- Cosmetics & Personal care products	ISO 11930	Evaluation of the antimicrobial protection of a

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		Cosmetic product (Challenge test)
	ISO 16212	Enumeration of Yeast & Mould
	ISO 18416	Detection of Candida albicans
	ISO 21149	Enumeration of Aerobic Mesophilic Bacteria
	ISO 21150	Detection of E. coli
	ISO 22717	Detection of Pseudomonas aeruginosa
	ISO 22718	Detection of Staphylococcus aureus
Microbiology- Disinfectants and Antiseptics	BS EN 1276	Determination of Bactericidal activity of Chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas
	UAE.S.GSO 875	Determination of Rideal - Walker coefficient
Microbiology- Food & Food Products	NLRC-SOP-MML-091	Detection of Campylobacter Species & Campylobacter Jejuni
	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	Total Coliform, Fecal Coliform, E. coli (MPN method)
	CMMEF: Chapter 9.73	Enumeration of Total coliforms
	CMMEF Chapter 21.51	Enumeration of Yeast & Mould
	NLRC-SOP-MML-069	Enumeration of Presumptive Sulphite Reducing Clostridia
	NLRC-SOP-MML-076	Enumeration of Pseudomonas aeruginosa by colony count
	NLRC-SOP-MML-089	Qualitative Detection of Clostridium botulinum in food and food products by RT-PCR
	NLRC-SOP-MML-095	Enumeration of Lactic acid Bacteria
	NLRC-SOP-MML-096	Enumeration of Yeast and Moulds by 3M petrifilm - Rapid Method

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Page 27 of 86

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Microbiology- Food & Food Products (cont.d)	NLRC-SOP-MML-097	Detection of Listeria Monocytogens
	NLRC-SOP-MML-092	Enumeration of E. coli (Chromogenic Plate Method)
	NLRC-SOP-MML-101 based on CMMEF:2015 )	Detection of Shigella Spp. in food and feed
	ISO 6579-1	Detection & Confirmation of Salmonella
	ISO 6888-1	Enumeration of Staphylococcus aureus
	ISO 15213	Enumeration of Clostridium perfringenes
	ISO 21872	Detection of Vibrio parahaemolyticus
	Reveal test kit (997.03 Based on AOAC official method (Neogen)	Detection of Listeria Spp.
	Reveal test kit (No.2000.14) Based on AOAC official method (Neogen)	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	NLRC-SOP-MML-011	Total Bacterial Count
	NLRC-SOP-MML-012	Total Yeast and Mould count
Microbiology- Nonsterile products/Nicotine Containing Products & Nicotine Pouches	NLRC-SOP-MML-071	Enumeration of TAMC and TYMC in Non-sterile products
	NLRC-SOP-MML-072	Microbiological Detection & Enumeration of specified microorganisms in Nonsterile products
Microbiology- Personal Swab, Surface Swab, Equipment Swab Etc.	CMMEF 9.62	Enumeration of Enterobacteriaceae
	CMMEF: Chapter-9.73	Enumeration of Total coliforms
	CMMEF 9.91:2015	E. coli
	NLRC-SOP-MML-076	Enumeration of Pseudomonas aeruginosa by Colony count
	NLRC-SOP-MML-092	Enumeration of E. coli (Chromogenic Plate Method)
	NLRC-SOP-MML-097	Detection of Listeria Monocytogenes

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Page 28 of 86

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Microbiology- Personal Swab, Surface Swab, Equipment Swab Etc. (cont.d)	ISO 6579-1	Detection & Confirmation of Salmonella
	ISO 6888-1	Enumeration of Staphylococcus aureus
	Reveal test kit Based on AOAC official method (997.03) (Neogen)	Detection of Listeria Spp.
	Reveal test kit Based on AOAC official method (No.2000.14) (Neogen)	Detection of E. coli O157
	US FDA BAM Chapter 3	Aerobic Plate Count
Microbiology -Sampling	NLRC-SOP-MML-010	Sampling of Food & Food Products
	NLRC-SOP-MML-011 & 012	Sampling of In-door Air
	NLRC-SOP-MML-013	Sampling of Swimming pool Water
	NLRC-SOP-MML-014	Swab Sampling
	NLRC-SOP-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	Mojonnier method for determining crude fat
Molecular -Food, Cosmetics & Agricultural Products, Pharmaceutical & Personal Care Products	NLRC-SOP-MML-001	Pork Trace Detection
	NLRC-SOP-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-014/ 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"> <li>1. Azinphos ethyl</li> <li>2. Azinphos methyl</li> <li>3. Chlorpyrifos</li> <li>4. Chlorpyrifos methyl</li> <li>5. Diazinon</li> <li>6. EPN</li> <li>7. Fenitrothion</li> <li>8. Isazophos</li> <li>9. Phosalone</li> <li>10. Phosmet</li> <li>11. Pirimiphos ethyl</li> <li>12. Pirimiphos methyl</li> <li>13. Pyraclofos</li> <li>14. Pyrazophos</li> </ol>

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Page 29 of 86

IAS/TL/100-1



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<p>Multiple food and Beverages commodities, Cosmetics and Personal care Products, Textiles, leather, Water and Tobacco Products/Nicotine-Containing products and related Products(cont'd.)</p>	<p>In-House SOP-NLRC-PRL-014 / EN 15662:2018/ AOAC 2007.01(cont'd.)</p>	<p>153. Flucythrinate 154. tau-Fluvalinate 155. cis-Permethrin 156. trans-Permethrin 157. Phenothrin (cis &amp; trans) 158. Resmethrin 159. Tefluthrin 160. Tetramethrin 161. Transfluthrin 162. Acequinocyl 163. Bromopropylate 164. Carfentrazone ethyl 165. Chlorobenzilate 166. Chlorpropham 167. Chlozolate 168. DCPA methyl ester (Chlorthal-dimethyl) 169. Fluazifop-p-butyl 170. Metalaxyl 171. 2-Phenylphenol 172. Bromfenvinfos-methyl 173. Bromfenvinphos 174. Bromophos ethyl 175. Bromophos methyl 176. Carbophenothion 177. Chlorfenvinphos 178. Chlorthiophos 179. Coumaphos 180. Edifenphos 181. Ethion 182. Fenamiphos 183. Fenchlorphos (Ronnel) 184. Fenthion 185. Iodofenphos 186. Leptophos 187. Malathion 188. Methacrifos 189. Profenofos 190. Prothiofos 191. Sulfotepp 192. Sulprofos 193. Terbufos 194. Tetrachlorvinphos 195. Tolclofos-methyl 196. Disulfoton 197. Fonofos ( 198. Methyl parathion 199. Mevinphos</p>
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<p>Multiple food and Beverages commodities, Cosmetics and Personal care Products, Textiles, leather, Water and Tobacco Products/Nicotine-Containing products and related Products(cont'd.)</p>	<p>In-House SOP-NLRC-PRL- 014 / EN 15662:2018/ AOAC 2007.01(cont'd.)</p>	<p>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>Multiple food and beverages commodities, Egg and Egg products, Poultry Products, Meat and Meat Products, Fish and fish products, edible tissues, milk, milk products (cont'd.)</p>	<p>NLRC-SOP-AL-136</p> <p>NLRC-SOP-AL-136 (cont'd.)</p>	<p>Determination of Antibiotics Residues by LC-MS/MS</p> <ul style="list-style-type: none"> <li>• Sulfaguanidine</li> <li>• Sulfisomidine</li> <li>• Trimethoprim</li> <li>• Sulfacetamide</li> <li>• Sulfadiazine</li> <li>• Sulfapyridine</li> <li>• Sulfathiazole</li> <li>• Sulfamerazine</li> <li>• Sulfamoxole</li> <li>• Sulfamethazine</li> <li>• Sulfamethizole</li> <li>• Sulfameter</li> <li>• Sulfamonomethoxine</li> <li>• Sulfamethoxy-pyridazine</li> <li>• Sulfachloro-pyridazine</li> <li>• Sulfadimethoxine</li> <li>• Sulfamethoxazole</li> <li>• Sulfisoxazole</li> <li>• Sulfabenzamide</li> <li>• Sulfadoxine</li> <li>• Sulfaquinoxaline</li> <li>• Sulfaphenazole</li> <li>• Sulfantran</li> <li>• Chlorotetracycline</li> <li>• Demeclocycline</li> <li>• Doxycycline</li> <li>• 4-Epichlortetracycline</li> <li>• 4-Epidemeclocycline</li> </ul>

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		<ul style="list-style-type: none"> <li>• 6-Epidoxycycline</li> <li>• 4-epi-Oxytetracycline</li> <li>• 4-Epitetracycline</li> <li>• Oxytetracycline</li> <li>• Tetracycline</li> <li>• Ofloxacin</li> <li>• Pipemidic Acid</li> <li>• Enoxacin</li> <li>• Norfloxacin</li> <li>• Perfloxacinium</li> <li>• Ciprofloxacin</li> <li>• Lomefloxacin Hydrochloride</li> <li>• Danofloxacin</li> <li>• Enrofloxacin</li> <li>• Sarafloxacin</li> <li>• Cinoxacin</li> <li>• Oxolinic Acid</li> <li>• Nalidixic Acid</li> <li>• Flumequine</li> <li>• Azithromycin</li> <li>• Spiramycin</li> <li>• Troleandomycin</li> <li>• Tilmicosin</li> <li>• Erythromycin</li> <li>• Tylosin</li> <li>• Clarithromycin</li> <li>• Fluphenazine</li> <li>• Leucomycin A3</li> </ul>
Multiple food and Beverages commodities, Meat Products	NLRC-SOP-AL-135	<p>Determination of Hormones and Growth Promoters by LC-MS/MS.</p> <ul style="list-style-type: none"> <li>• Trenbolone</li> <li>• Roxarsone</li> <li>• 17-beta-Estradiol</li> <li>• Melengestrol acetate</li> <li>• Progesterone</li> <li>• Testosterone</li> </ul>
Paints, varnishes and plastics	ISO 3251	Determination of non-volatile-matter content
Perfume and Perfumery Products	NLRC-SOP-AL-014 based on UAE.S GSO 1047	Visual Inspection and Turbidity Test
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,	NLRC-SOP-AL-016	Determination of Alcohol Content (Methanol, Ethanol, Isopropanol and 1-Propanol) by gas chromatography.

TL-1167

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Effective Date December 11, 2025

Page 39 of 86

IAS/TL/100-1



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Heated Tobacco Products & Electronic Nicotine Products.		
Perfumes and Perfumery Products and Denatured Alcohol Products, Cosmetics, and Personal Care Products	NLRC-SOP-AL-052	Determination of Alcohol Denaturant in Perfumes and Perfumery Products By UHPLC-MS/MS <ol style="list-style-type: none"> <li>1. Denatonium Benzoate (Bitrex)</li> <li>2. Diethyl Phthalate</li> <li>3. Quassin (Mixture of Quassin, Isoquassi, Neoquassin)</li> <li>4. Sucrose Octaacetate (Octa-O- Acetyl D-(+)- Sucrose)</li> </ol>
Perfumes, Oils, Beverage and Industrial Solvents	NLRC-SOP-AL-139	Refractive Index Test
Perfume, Textiles, and leather comes undergarments, toys, bag, footwear and components, Cosmetics and Personal Care Products	NLRC-SOP-AL-105 based on EN ISO 16373-2	Determination Of Allergenic and Carcinogenic Dyestuffs By LC MS/MS. <ul style="list-style-type: none"> <li>• Basic Red 9</li> <li>• Direct Red 28</li> <li>• Disperse Blue 102</li> <li>• Disperse Blue 124</li> <li>• Disperse Blue 26</li> <li>• Disperse Blue 3</li> <li>• Disperse Blue 7</li> <li>• Disperse Orange 1</li> <li>• Disperse Orange 11</li> <li>• Disperse Orange 37/76</li> <li>• Disperse Red 1</li> <li>• Disperse Red 17</li> <li>• Disperse Yellow 1</li> <li>• Disperse Yellow 3</li> <li>• Disperse Yellow 9</li> </ul>
Perfumery Products, Cosmetic and Personal Care Products Household Care Products- Air Fresheners	EOS 8283	Aromatic Oils Content /Essential Oil Content
Perfumery Products, Cosmetic and Personal Care Products Household Care Products- Air Fresheners	NLRC-SOP-AL-019	Aromatic Oils Content /Essential Oil Content
Personal Care Products, Detergents, Household Care Products, Food & Dairy Products, Beverage Products & Tobacco Products	NLRC-SOP-AL-012 based on 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	<ul style="list-style-type: none"> <li>• Determination of Water-Soluble Iron Salts</li> </ul>

TL-1167

NATIONAL LABORATORY & RESEARCH CENTER

Effective Date December 11, 2025

Page 40 of 86

IAS/TL/100-1



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		<ul style="list-style-type: none"> <li>• Determination of Acid Soluble Matter</li> <li>• Determination of Boric Acid</li> <li>• Test For Carbonates</li> <li>• Determination of Acid Soluble Iron</li> <li>• Determination of Matter soluble in Water</li> <li>• Determination of Fineness</li> <li>• Identification Test for Talcum Powder</li> </ul>
Petroleum Jelly	NLRC-SOP-AL-085	Consistency for Vaseline
Phenolic Disinfectant Fluids	UAE.S GSO 874	Effect on fabrics
	UAE.S GSO 875:	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	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 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

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Sodium Hypochlorite Solution used as laundry bleacher and household disinfectant, as well as for treatment of water supplies for industrial and municipal uses	UAE.S GSO 801	Sodium hypochlorite content and available chlorine
Synthetic Detergent for Kitchen	GSO 1947	Evaluation Method for Detergency
Synthetic liquid detergents for clothing and fabrics	GSO 2060	Determination of ionic materials percentage/ anionic materials
		Total Active Material Percentage
Textile, leather, Coated paint, and polymer bag, Children's products, soothers Handle, footwear, toys, Cosmetics and Personal Care products and electronic devices comes under ROHS  Textile, leather, Coated paint, and polymer bag, Children's products, soothers Handle, footwear, toys, Cosmetics and Personal Care products and electronic devices comes under ROHS(cont'd.)	NLRC-SOP-AL-110 based on ISO 14389:2014 / IEC 62321-8.	Determination of Phthalate Content by GC-MS <ul style="list-style-type: none"> <li>• Dimethyl phthalate</li> <li>• Diethyl Phthalate</li> <li>• Di-n-butyl phthalate</li> <li>• Bis(2-methoxyethyl) phthalate</li> <li>• Diamyl Phthalate</li> <li>• Benzyl butyl phthalate</li> <li>• Dicyclohexyl phthalate</li> <li>• Bis(2-ethylhexyl) phthalate</li> <li>• Di-n-octyl phthalate</li> <li>• Diisononyl Phthalate</li> <li>• Diiso Decyl phthalate</li> <li>• Diiso butyl phthalate</li> <li>• Bis(2-ethoxyethyl) phthalate</li> <li>• Bis(4-methyl-2-pentyl) phthalate</li> <li>• Di hexyl Phthalate</li> <li>• Bis(2-n-butoxyethyl) phthalate</li> <li>• Dinonyl Phthalate</li> </ul>
	NLRC-SOP-AL-141	Screening of Polymer Residues by GC-MS
Textiles and leather, Polymer, toys, bag, footwear and components	NLRC-SOP-AL-107 ISO 17881-2	Determination of Flame Retardants (Phosphate) by LC MS/MS <ul style="list-style-type: none"> <li>• Tris (1,3-dichloropropyl-2) Phosphate</li> <li>• Tris(2-chloroethyl) phosphate</li> </ul>

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	NLRC-SOP-AL-112 based on DIN 54232 & EN 17137	Determination of Chlorobenzenes and Chlorotoluene Chloronaphthalene by GC MS <ul style="list-style-type: none"> <li>• 1,4-dichloro- Benzene</li> <li>• <math>\alpha, \alpha, \alpha</math>-Trichlorotoluene</li> <li>• 1,2-dichloro- Benzene</li> <li>• 1,2,4-Trichlorobenzene</li> <li>• 1,2,4,5-Tetrachlorobenzene</li> <li>• Pentachlorobenzene</li> <li>• Hexachlorobenzene</li> <li>• 4-Chlorotoluene</li> <li>• 2,4- Dichlorotoluene</li> <li>• <math>\alpha, \alpha, \alpha, 4</math>- Tetrachlorotoluene</li> <li>• 2,3,4,5,6 Pentachlorotoluene</li> <li>• 1-Chloronaphthalene</li> <li>• 2-Chloronaphthalene</li> </ul>
Textiles and textile products, leather and footwear materials	NLRC-SOP-AL-213 based on ISO 22744-1,2	Determination of Organotin compounds
Textiles, toys, bags, footwear, leather, Coated Paint, polymer, finger Paint and Cosmetics and Personal care products	NLRC-SOP-AL-103 based on ISO 17234-1 & ISO14362-1	Determination of Aromatic Amines Derived from Azo Colorants By GC-MS. <ul style="list-style-type: none"> <li>• O-toluidine</li> <li>• 2,6-dimethylaniline</li> <li>• 2,4-dimethylaniline</li> <li>• 2-methoxyaniline</li> <li>• 4-chloroaniline</li> <li>• 2-methoxy-5-methylaniline</li> <li>• 2,4,5-trimethylaniline</li> <li>• 4-chloro-2-methylaniline</li> <li>• 2,4-diaminotoluene</li> <li>• 2,4-diaminoanisole</li> <li>• 2-naphthylamine</li> <li>• 5-nitro-o-toluidine</li> <li>• 4-aminobiphenyl</li> <li>• P-phenylazoaniline</li> </ul>



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		<ul style="list-style-type: none"> <li>• 4-aminophenyl Ether</li> <li>• Benzidine</li> <li>• 4,4'-methylenedianiline</li> <li>• O-aminoazotoluene</li> <li>• 3,3'-dimethyl-4,4'-diaminodiphenyl methane</li> <li>• 3,3'-dimethylbenzidine</li> <li>• 4,4'-thiodianiline</li> <li>• 3,3'-dimethoxybenzidine</li> <li>• 3,3'-dichlorobenzidine</li> <li>• 4,4'-Methylenebis(2-chloroaniline)</li> </ul>
Textiles, leather metals and non-metals (polymer, plastics and glass) toys, bag, footwear, and Electronic devices comes under ROHS.	NLRC-SOP-AL-116 based on EN 16711-1 & IEC 62321-4	Determination of Heavy Metal content by ICP-MS <ul style="list-style-type: none"> <li>• Antimony (Sb)</li> <li>• Arsenic (As)</li> <li>• Lead (Pb)</li> <li>• Cadmium (Cd)</li> <li>• Chromium (Cr)</li> <li>• Cobalt (Co)</li> <li>• Copper (Cu)</li> <li>• Mercury (Hg)</li> <li>• Nickel (Ni)</li> </ul>
Textiles, Leather, plastic, metals and wood comes under garments, toys, bag, footwear and components	NLRC-SOP-AL-120 based on ISO 14184-1& ISO 17226-2	Determination of Formaldehyde by UV-VIS spectroscopy
Textiles, leather and polymer comes under garments, toys, bag, footwear and footwear components	NLRC-SOP-AL-117 based on ISO-16190 & AfPS GS 2014:010 PAK	Determination of Poly Aromatic Hydrocarbon (PAH) by GC MS/MS. <ul style="list-style-type: none"> <li>• Naphthalene</li> <li>• Acenaphthene</li> <li>• Acenaphthylene</li> <li>• Fluorene</li> <li>• Anthracene</li> <li>• Phenanthrene</li> <li>• Fluoranthene</li> <li>• Pyrene</li> <li>• Benz[a]anthracene</li> <li>• Chrysene</li> <li>• Benzo[a]pyrene</li> <li>• Benzo[b]fluoranthene</li> <li>• Benzo[k]fluoranthene</li> </ul>

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		<ul style="list-style-type: none"> <li>• Benzo[g,h,i]perylene</li> <li>• Dibenz[a,h]anthracene</li> <li>• Indeno[1,2,3-cd]pyrene</li> </ul>
Textile, metals, plastic/polymer, and Paint coated materials comes under RoHS (electronic equipment), garments, toys, bag, footwear and footwear components.	NLRC-SOP-AL-111 based on ISO 17075-1, IEC 62321-7-1 & IEC 62321-7-2	Determination of Hexavalent chromium by UV-VIS spectroscopy
Textiles (whether natural or synthetic) glass, ceramic, metallic materials, wood, fiber board, hard board, bone, leather and other solid materials	EN 71-3 Part 3: Migration of certain elements	<p>Specific Migration Of elements ICP MS</p> <ul style="list-style-type: none"> <li>• Antimony (Sb)</li> <li>• Arsenic (As)</li> <li>• Barium (Ba)</li> <li>• Beryllium (Be)</li> <li>• Cadmium (Cd)</li> <li>• Chromium (Cr)</li> <li>• Cobalt (Co)</li> <li>• Copper (Cu)</li> <li>• Iron (Fe)</li> <li>• Lead (Pb)</li> <li>• Manganese (Mn)</li> <li>• Mercury (Hg)</li> <li>• Molybdenum (Mo)</li> <li>• Nickel (Ni)</li> <li>• selenium (Se)</li> <li>• Silver (Ag)</li> <li>• strontium (Sr)</li> <li>• Thallium (Tl)</li> <li>• Tin (Sn)</li> <li>• Vanadium (V)</li> <li>• Zinc (Zn)</li> </ul>
Textiles, wood, and polymer , toys, bag, footwear and electronic devices come under ROHS.	NLRC-SOP-AL-106 based on ISO 17881-1 & IEC 62321-6	<p>Determination of Flame Retardants (brominated) by GC-MS</p> <ul style="list-style-type: none"> <li>• 2,2',4,4',5,5'-hexabromodiphenyl Ether (BDE-153)</li> <li>• 2,2',4,4',5,6'-hexabromodiphenyl Ether (bde-154)</li> <li>• 2,2',4,4',5-pentabromodiphenyl Ether (bde-99)</li> <li>• 2,2',4,4',6-pentabromodiphenyl Ether (bde-100)</li> </ul>

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		<ul style="list-style-type: none"> <li>• 2,2',4,4'-tetrabromodiphenyl Ether (bde-47)</li> <li>• 2,2',3,4,4',5',6-heptabromodiphenyl Ether (bde-183)</li> <li>• 2,4,4'-tribromodiphenyl Ether (bde-28)</li> </ul>
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.	AATCC 20 Test Method for Fiber Analysis: Qualitative	Determination of Fiber Identification
	AATCC 20A	Test Method for Fiber Analysis: Quantitative Determination of Fiber Composition of Textiles
	DIN 53160-1	Determination of the colorfastness of articles for common use - Part 1: Test with artificial saliva
	DIN 53160-2	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
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. (cont'd.)	ISO 105-E03	Textiles — Tests for colour fastness — Part E03: Colour fastness to

TL-1167

NATIONAL LABORATORY & RESEARCH CENTER

Effective Date December 11, 2025

Page 46 of 86

IAS/TL/100-1



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		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	NLRC-SOP-AL-108	Determination Of Grammage
Tissue Products, Textiles, Leather, Paper, Wipes and Board	NLRC-SOP-AL-109	Determination Of Thickness, Bulk Thickness & Apparent Bulk Density for Tissue Paper and Tissue Products
Tobacco & Tobacco Products	NLRC-SOP-CL-038 based on ISO 20193	Determination of Tobacco Cut Width using optical measurement
Tobacco and Tobacco Products (Cigarette/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses)	NLRC-SOP-CL-009	Fine tobacco content passing through 425µm sieve on wet or dry weight
	NLRC-SOP-CL-006 AOAC 966.02:1968 & Coresta Method N° 76	Moisture content
	NLRC-SOP-CL-024	Tobacco products sieve analysis passing through 600µm on wet or dry weight
	NLRC-SOP-CL-027 based on AOAC 959.04:1964	Total Nitrogen content on wet or dry weight
	ISO 1575	Total ash content on wet or dry weight
	ISO 1577	Determination of acid-insoluble ash on wet and dry

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		weight
	ISO 2817:1999 / NLRC-SOP-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)	NLRC-SOP-CL-014	Visual test
Tobacco and Tobacco Products (Cigarette/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products/ Nicotine Pouches)	NLRC-SOP-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"> <li>• Dicamba</li> <li>• 2,4-D</li> <li>• 2,4,5-T</li> </ul>
	WHO SOP 04/Coresta recommended method No. 62 NLRC-SOP-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 & Nicotine Pouches.	NLRC-SOP-CL-061	<ol style="list-style-type: none"> <li>1. Δ9-tetrahydrocanna- binol (Δ9-THC)</li> <li>2. Cannabidiol (CBD)</li> </ol>
Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds Heated Tobacco Products & Electronic Nicotine Products.	NLRC-SOP-PRL-007 based on Thermo Fischer Scientific Inc, Application Note 10333:2012	Pesticide Residues - Dithiocarbamate
Tobacco, Tobacco product & Nicotine- Containing Products & Nicotine Pouches	NLRC-SOP-CL-039 CORESTA Method No. 69/ISO 21109	Determination of pH
Tobacco, Tobacco Products, Nicotine- Containing Products and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products).	NLRC-SOP-CL-029	Essential oil extract content on wet and dry weight
	NLRC-SOP-CL-040	Determination of free-base nicotine Content in tobacco and tobacco products
	NLRC-SOP-PRL-012 based on ISO 4389	Determination of pesticide residues by using GC- MS/MS <ul style="list-style-type: none"> <li>• BHC-Alpha</li> <li>• Hexachlorobenzene</li> <li>• BHC-Beta</li> <li>• BHC-Gamma</li> <li>• BHC-Delta</li> <li>• Formothion</li> <li>• Heptachlor</li> <li>• Aldrin</li> <li>• Heptachlor exo- epoxide-Isomer B <ul style="list-style-type: none"> <li>• Heptachlor-endo- epoxide- Isomer A <ul style="list-style-type: none"> <li>• Chlordane-trans (Gamma)</li> <li>• O,P-DDE</li> </ul> </li> </ul> </li> </ul>
Tobacco, Tobacco Products, Nicotine- Containing Products and Related Products (Raw tobacco/Cigarettes/Dokha/ Tobacco Pipe/Heated Tobacco Products/Cigar/Molasses/Electronic Nicotine Products). (cont.d.)		

TL-1167

NATIONAL LABORATORY & RESEARCH CENTER

Effective Date December 11, 2025

Page 48 of 86

IAS/TL/100-1



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		<ul style="list-style-type: none"> <li>• Endosulfan-Alpha</li> <li>• Chlordane-cis</li> <li>• Dieldrin</li> <li>• P,P-DDE</li> <li>• O,P-TDE or O,P- DDD</li> <li>• Endrin</li> <li>• Endosulfan-Beta</li> <li>• P,P-DDD or P,P- TDE</li> <li>• O,P-DDT</li> <li>• P,P-DDT</li> <li>• Permethrin-Cis</li> <li>• Permethrin-Trans</li> <li>• Toxaphene</li> </ul>
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).	NLRC-SOP-CL-036 based on ISO 13110 /Coresta RM No.92 & AOAC 968.03	Menthol content
	NLRC-SOP-CL-041 based on WHO TobLabNet Official Method SOP 06 June 2016 and Coresta Method N° 60 / Coresta Method N° 81,84.	Determination of Humectants Content in tobacco and tobacco products by gas chromatography <ol style="list-style-type: none"> <li>1. Glycerol</li> <li>2. Propylene Glycol</li> <li>3. Triethylene Glycol</li> </ol>
Tobacco Products, Agricultural Products, Fertilizer, Soil, Water, Feeds, Food and Beverage Products	NLRC-SOP-CL-034	Radio-nucleide Activity Test <sup>134</sup> Cs, <sup>137</sup> Cs, <sup>40</sup> K, <sup>131</sup> I, <sup>226</sup> Ra, <sup>228</sup> Ra, Tritium, <sup>232</sup> Th.
Tobacco Products, Cigarettes and Heated Tobacco Products	NLRC-SOP-CL-046	Gravimetric and statistical analysis of cigarette parts/components and nicotine yield <ul style="list-style-type: none"> <li>• Cigarette Weight</li> <li>• Tobacco Weight</li> <li>• Non-Tobacco Mass</li> <li>• Filter Weight</li> <li>• Cigarette Paper Weight</li> </ul>
Tobacco Products, Electronic Nicotine Products, Heated Tobacco Products and Personal Care Products	NLRC-SOP-CL-098	Determination Of Ethylene Glycol and Diethylene Glycol by LC MS/MS.
Tobacco Products, Electronic Nicotine Products & Nicotine-Containing Products	NLRC-SOP-AL-082	Determination of Sorbitol Content by UHPLC-MS/MS
Tobacco Product (Fine paper-	NLRC-SOP-CL-043 based on	Determination of the air permeability on fine paper

TL-1167

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Effective Date December 11, 2025

Page 49 of 86

IAS/TL/100-1



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cigarettes paper, plug wrap paper, and tipping paper)	ISO 2965 and CORESTA Method N°40	
Tobacco Products, Heated Tobacco Products, Electronic Nicotine Products.	NLRC-SOP-CL-050	Determination of Benzoic Acid and Sorbic Acid Con- tent by HPLC
	NLRC-SOP-CL-059	Determination Of Alpha Glycerophosphoric Acid and Ortho Phosphoric Acid
Tobacco Product, Molasses	NLRC-SOP-CL-060	Estimation of Tobacco Per- centage
Tobacco products and Nicotine-Containing Products	NLRC-SOP-CL-042	Determination of phospho- rous content
Tobacco Products, Nicotine-Containing Prod- ucts, Filter Rod and Related Products (Ciga- rettes /Heated Tobacco Products /Cigar/Molas- ses/Nicotine Pouches /Electronic Nicotine Prod- ucts/Dokha) and Its Emissions test (Aerosols Test).	NLRC-SOP-CL-051 based on ISO 20714 ISO 24199 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"> <li>• Acetone</li> <li>• Methanol</li> <li>• Ethanol</li> <li>• Benzene</li> <li>• Toluene</li> <li>• Ethylene Glycol</li> <li>• Menthol</li> <li>• 1,3-Butanediol</li> <li>• Nicotine</li> <li>• Diethylene glycol</li> <li>• Triacetin</li> </ul>
Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Nicotine Pouches/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test).	NLRC-SOP-CL-047	Determination of Ammonia by using Ion Chromatog- raphy
	NLRC-SOP-CL-048	Determination of artificial sweeteners and preservatives in tobacco products & e-liquid by UHPLC MS/MS <ul style="list-style-type: none"> <li>• Benzoic Acid</li> <li>• Sorbic Acid</li> <li>• Acesulfame K</li> <li>• Aspartame</li> <li>• Saccharin</li> <li>• Cyclamic Acid</li> </ul>
Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Nicotine Pouches/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test). (cont'd.)	NLRC-SOP-CL-049 based on Afnor XP D90- 300-2,3 Coresta RM	Determination Of Selected Primary Aromatic Amines <ul style="list-style-type: none"> <li>• 1-Naphthylamine (1-Aminonaphthalene)</li> <li>• 2-Naphthylamine (2-Aminonaphthalene)</li> <li>• 4-Aminobiphenyl</li> </ul>

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Effective Date December 11, 2025

Page 50 of 86

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<p>Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Nicotine Pouches/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test). (cont'd.)</p>	<p>NLRC-SOP-CL-052 based on ISO 24211 Coresta RM No.74,86,96,109 Afnor XP D90-300-2,3</p>	<p>Determination Of Selected Carbonyl Compounds in E-Liquid Products</p> <ul style="list-style-type: none"> <li>• Acetaldehyde</li> <li>• Acetone</li> <li>• Acrolein</li> <li>• n-Butyraldehyde (Butanal)</li> <li>• Crotonaldehyde</li> <li>• Formaldehyde</li> <li>• Propionaldehyde (Propanal)</li> <li>• 2-Butanone (Methyl Ethyl Ketone)</li> <li>• Acetoin(3-hydroxy-2-Butanone)</li> <li>• Diacetyl (2,3-Butadi-one)</li> <li>• Acetyl Propionyl (2,3-Pentadione)</li> </ul>
	<p>NLRC-SOP-CL-054 based on Coresta RM 98/ Afnor XP D90-300-2,3.</p>	<p>Determination Of Trace Elements Content by ICP-MS</p> <ul style="list-style-type: none"> <li>• Mercury</li> <li>• Arsenic</li> <li>• Chromium</li> <li>• Cadmium</li> <li>• Nickel</li> <li>• Lead</li> <li>• Iron</li> <li>• Tin</li> <li>• Copper</li> </ul>
	<p>NLRC-SOP-CL-055 based on ISO 20768 ISO 24199 ISO 24197 Coresta Recommended Method No.81,99,100,101,110,107 Afnor XP D90-300-2,3/ PAS 8850:2020</p>	<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>
	<p>NLRC-SOP-CL-056 based on Coresta RM No. 70/ ISO 21330 Afnor XP D90-300-2,3</p>	<p>Determination Of Selected Volatile Organic Compounds</p> <ol style="list-style-type: none"> <li>1. Benzene</li> <li>2. Toluene</li> <li>3. Acrylonitrile</li> </ol>

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		<ol style="list-style-type: none"> <li>4. 1,3-Butadiene</li> <li>5. Isoprene</li> </ol>
	NLRC-SOP-CL-057 based on Afnor XP D90-300-2,3	Determination of Nicotine by Liquid Chromatography
<p>Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/ Cigar/ Molasses/ Electronic Nicotine Products) and Its Emissions test (Aerosols Test).</p> <p>Cosmetics and Personal Care Products, Food and Beverage products.</p> <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)</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"> <li>• Naphthalene</li> <li>• Acenaphthylene</li> <li>• Acenaphthene</li> <li>• Fluorene</li> <li>• Phenanthrene</li> <li>• Anthracene</li> <li>• Fluoranthene</li> <li>• Pyrene</li> <li>• Benzo(c)phenanthrene</li> <li>• Benz(a)anthracene</li> <li>• Chrysene</li> <li>• Benzo[b]fluoranthene</li> <li>• 7,12 Dimethylbenz[a]anthracene</li> <li>• Benzo[k]fluoranthene</li> <li>• Benzo[J]fluoranthene</li> <li>• Benzo[e]pyrene</li> <li>• Benzo[a]pyrene</li> <li>• 3-Methylchlanthrene</li> <li>• Indeno[1,2,3-cd]pyrene</li> <li>• Dibenz[a,h]anthracene</li> <li>• Benzo[g,h,i]perylene</li> <li>• Dibenz[a]pyrene</li> <li>• Dibenz[a,i]pyrene</li> <li>• Dibenz[a,h]pyrene</li> </ul>
<p>Tobacco Products, Nicotine-Containing Products and Related Products (Cigarettes /Heated Tobacco Products/Cigar /Molasses /Dokha /Nicotine Pouches /Electronic Nicotine Products) and Its Emissions test (Aerosols Test).</p>	<p>NLRC-SOP-CL-037 based on ISO 19290/ ISO 21766/ ISO 20768 &amp; Coresta Recommended Method N° 72,75,102/ Afnor XP D90-300-2,3</p>	<p>Nitrosamines (TSNAs)</p> <ol style="list-style-type: none"> <li>1. N-Nitrosornicotine (NNN)</li> <li>2. N-Nitrosornicotine ketone (NNK)</li> <li>3. N-Nitrosoanatabine (NAT)</li> <li>4. N-Nitrosoanabasine (NAB)</li> </ol>

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Effective Date December 11, 2025

Page 52 of 86

IAS/TL/100-1



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Toilet cleansers	EAS 793-1	Determination of Total acidity
Toys	EN 71-1.2,9,11,12	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
Water, Cosmetics, Food Contact Materials Food Packaging Materials	NLRC-SOP-AL-211 based on EN 13130-1 & AFPS GS 2014:01 PAK	Migration of Polycyclic Aromatic Hydrocarbons (PAHs)
	NLRC-SOP-AL-205 based on EN 13130-1	Specific migration of Phthalate <ol style="list-style-type: none"> <li>1. Dimethyl phthalate</li> <li>2. Diethyl Phthalate</li> <li>3. Di-n-butyl phthalate</li> <li>4. Bis(2-methoxyethyl) phthalate</li> <li>5. Diamyl Phthalate</li> <li>6. Benzyl butyl phthalate</li> <li>7. Dicyclohexyl phthalate</li> <li>8. Bis(2-ethylhexyl) phthalate</li> <li>9. Di-n-octyl phthalate</li> <li>10. Diisononyl Phthalate</li> <li>11. Diiso Decyl phthalate</li> <li>12. Diiso butyl phthalate</li> <li>13. Bis(2-ethoxyethyl) phthalate</li> <li>14. Di Allyl phthalate</li> <li>15. Di hexyl Phthalate</li> <li>16. Bis(2-n-butoxy-ethyl) phthalate</li> <li>17. Dinonyl Phthalate</li> </ol>
Water, Cosmetics, Food Contact Materials Food Packaging Materials (cont'.d)		

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	NLRC-SOP-AL-212 based on EN 13130-1,2,3,7,10	Migration of Terephthalic acid, Acrylonitrile, Ethylene glycol, Diethylene glycol & Acrylamide.
	NLRC-SOP-AL-200 based on EN 13130-1	Migration of Primary Aromatic Amines
	NLRC-SOP-AL-181 based on EN 13130-1	Migration of Acetaldehyde
	NLRC-SOP-AL-181 based on EN 13130-1,23	Migration of Formaldehyde
	EN 13130-1,27/	Migration of Melamine
	NLRC-SOP-AL-126 based on EN 13130-1, ISO 6486-2, ISO 7086-2 & ISO 8391-2	<p>Determination Of Heavy Metal Migration from different types Of Plastic Food Packaging Materials into food simulants using ICP-MS</p> <ul style="list-style-type: none"> <li>• Barium (Ba)</li> <li>• Copper (Cu)</li> <li>• Zinc (Zn)</li> <li>• Iron (Fe)</li> <li>• Manganese (Mn)</li> <li>• Cobalt (Co)</li> <li>• Lead (Pb)</li> <li>• Cadmium (Cd)</li> <li>• Arsenic (As)</li> <li>• Chromium (Cr)</li> <li>• Antimony (Sb)</li> <li>• Nickel (Ni)</li> <li>• Lithium (Li)</li> <li>• Aluminium (Al)</li> <li>• Magnesium (Mg)</li> <li>• Silver (Ag)</li> <li>• Tin (Sn)</li> <li>• Vanadium(V)</li> <li>• Molybdenum (Mo)</li> <li>• Titanium (Ti)</li> <li>• Mercury (Hg)</li> <li>• Calcium (Ca)</li> <li>• Potassium (K)</li> <li>• Sodium (Na)</li> <li>• Beryllium (Be)</li> <li>• Thallium (Tl)</li> <li>• Phosphorus (P)</li> <li>• Gadolinium (Gd)</li> <li>• Lanthanum (La)</li> <li>• Europium (Eu)</li> <li>• Terbium (Tb)</li> </ul>

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Water, Ground water, Wastewater, Marine and sea water and industrial Water. Potable and Non-Potable Water.	NLRC-SOP-AL-166 based on 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	Enumeration of Sulphite Reducing Clostridia by Membrane Filtration Method
	NLRC-SOP-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
	NLRC-SOP-MML-094	Detection & Enumeration of pathogens in water
	NLRC-SOP-MML-099	Detection of Parasites in water
	ISO 11731	Detection & Enumeration of Legionella in water by Membrane Filtration Method
	ISO 16266	Enumeration of Pseudomonas Aeruginosa by Membrane Filtration Method
Water, Sodium Hypochlorite Solution	GSO 801	Determination Of Chlorate, Bromate, Perchlorate Content By Chromatographic Method
Tobacco, Tobacco products, Smokeless Tobacco Products, Nicotine-Containing Products,	NLRC-SOP-CL-062	Determination of Selected Toxic

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Effective Date December 11, 2025

Page 55 of 86

IAS/TL/100-1



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<p>Oral Nicotine Products, Nicotine Pouches and Electronic Nicotine Products</p>		<p>Substances/Restricted Biologically Active Flavorings in Flavors by UHPLC-MS/MS and GC-MS/MS</p> <ol style="list-style-type: none"> <li>1. Coumarin</li> <li>2. Safrole</li> <li>3. Estragole</li> <li>4. Methyl Eugenol</li> <li>5. Beta-asarone</li> <li>6. Alpha-thujone</li> <li>7. Beta-thujone</li> <li>8. Pulegone</li> <li>9. Menthofuran</li> <li>10. Capsaicin</li> <li>11. Quassin</li> <li>12. Agaric acid</li> <li>13. Aloin A</li> <li>14. Teucrin A</li> <li>15. Hypericin</li> <li>16. N-Nitrosornicotine (NNN)</li> <li>17. 4-(N-methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)</li> <li>18. Bergamottin</li> <li>19. 6,7-Dihydroxibergamottin</li> <li>20. Colchicine</li> </ol>
<p>Tobacco, Tobacco Products, Smokeless Tobacco Products, Nicotine-Containing Products, Oral Nicotine Products, Nicotine Pouches and Electronic Nicotine Products</p>	<p>NLRC-SOP-CL-063 based on Coresta Method N° 88</p>	<p>Determination of Water Activity</p>
<p>Tobacco, Tobacco Products, Smokeless Tobacco Products, Nicotine-Containing Products, Oral Nicotine Products, Nicotine Pouches and Electronic Nicotine Products</p>	<p>NLRC-SOP-CL-064</p>	<p>Determination of Hydrocyanic Acid</p>
<p>Beverages, Food Products, Sweetened and un-sweetened Products, pharmaceuticals, Oral-Care Products, supplement products, Sugar Substitute Products, Tobacco, Tobacco Products, Smokeless Tobacco Products, Nicotine-Containing Products, Oral Nicotine Products, Nicotine Pouches and Electronic Nicotine Products</p>	<p>NLRC-SOP-CL-065</p>	<p>Determination of Steviol Glycosides (Stevia), Sugar Alcohols and Artificial Sweeteners by UHPLC-MS/MS</p> <p><u>Steviol Glycosides:</u></p> <ol style="list-style-type: none"> <li>1. Stevioside</li> <li>2. Steviolbioside</li> <li>3. Rebaudioside A</li> <li>4. Rebaudioside B</li> <li>5. Rebaudioside C</li> <li>6. Rebaudioside D</li> </ol>

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		<p>7. Rebaudioside M</p> <p><u>Sugar Alcohols:</u></p> <ol style="list-style-type: none"> <li>1. Xylitol</li> <li>2. Maltitol</li> <li>3. Mannitol</li> <li>4. Sorbitol</li> <li>5. Erythritol</li> <li>6. Iso-maltitol (Iso-malt)</li> <li>7. Lactitol</li> </ol> <p><u>Artificial Sweeteners:</u></p> <ol style="list-style-type: none"> <li>1. Acesulfame K</li> <li>2. Aspartame</li> <li>3. Saccharin</li> <li>4. Cyclamic Acid</li> <li>5. Alitame</li> <li>6. Neotame</li> <li>7. Sucralose</li> <li>8. Advantame</li> </ol>
Nicotine-Containing Products, Oral Nicotine Products, Nicotine Pouches	NLRC-SOP-CL-066	<p>Visual and Sensory Analysis of Nicotine Containing Products and Nicotine Pouches Products</p> <ol style="list-style-type: none"> <li>1. Number of Pouches Per Pack</li> <li>2. Package Seal Check</li> <li>3. Visual Inspection</li> <li>4. Organoleptic and Sensory Evaluation</li> </ol>
Cosmetic Products, Personal Care Products, Beverages, Alcoholic Beverages, Food Products, Tobacco, Tobacco Products, Smokeless Tobacco Products, Nicotine-Containing Products, Oral Nicotine Products, Nicotine Pouches and Electronic Nicotine Products	NLRC-SOP-AL-168	<p>Determination of Selected Organic Acids and Alpha Hydroxy Acids in Various Matrices by Using UHPLC-DAD</p> <ol style="list-style-type: none"> <li>1. Oxalic Acid</li> <li>2. Citric Acid</li> <li>3. Tartaric Acid</li> <li>4. Malic Acid</li> <li>5. Glycolic Acid</li> <li>6. Lactic Acid</li> <li>7. Propionic Acid</li> </ol>
Food and Food Products, Food supplements, Sea food products, Meat and, Meat products, Cosmetics and Personal Care Products, Tobacco and Tobacco Products, Nicotine Prod-	AOAC 978.18/ ISO 18787/ USP 922/ USP 1112	Determination of Water Activity

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ucts/Nicotine Pouches, Pharmaceutical Products.		
Food, Feed, Beverage Products, Agricultural Products, Dairy Products, Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products & Nicotine Products/Nicotine Pouches	NLRC-SOP-AL-004 based on AOAC 999.07, AOAC 2000.03 & AOAC 991.31	Determination of Aflatoxin-G1, G2, B1, B2, M1, Ochratoxin A, Fumonisin B1 and B2, Patulin, T-2 Toxin, Deoxynivalenol and Zearalenone
Food Contact Materials/Feeding Bottle with Teats/Thermo Flask/ Soother/Melamine Product/Tableware (Plastic / Rubber/Polymeric Coated Metal)	Resolution AP (89) 1	Color Release
Food Contact Materials/Feeding Bottle with Teats/Thermo Flask/Soother/Melamine Product/Tableware (Plastic Rubber/Polymeric Coated Metal)/ Paper	DIN 10955	Sensory Analysis
Food Contact Materials paper, Cardboard, plastics foils and kitchen utensils	BS ISO 13302	Sensory Analysis
Food Contact Materials, paper and board coated & printed materials	EN 1230-1,2	Sensory Analysis
Food Products/Honey and Honey Products	NLRC-SOP-AL-080 based on Harmonized Methods of The International Honey Commission	Determination of The Electrical Conductivity
Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board	NLRC-SOP-AL-188 based on EN 16711-2 and ISO 17072-1	Determination of Extractable Heavy metals:
Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board (cont'd.)	NLRC-SOP-AL-188 based on EN 16711-2 and ISO 17072-1 (cont'd.)	Antimony (Sb) Arsenic (As) Calcium (Ca) Chromium (Cr) Cadmium (Cd) Cobalt (Co) Copper (Cu) Lead (Pb) Mercury (Hg) Nickel (Ni) Selenium (Se) Barium (Ba) Hexavalent chromium - Cr (VI)
Leather and footwear components	ISO 17226-1	Determination of Formaldehyde by HPLC
Food packaging materials, Paper and board, Recycled paper and cardboard fibers	NLRC-SOP-AL-181 Based on EN 645 & EN 647	Determination of Intentionally Added Substances (IAS) - Migration of Formaldehyde by HPLC

TL-1167

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Effective Date December 11, 2025

Page 58 of 86

IAS/TL/100-1



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Insecticide Products Household, Aerosols, Aircraft products, Plant protection products, Pesticides technical and Formulated products	NLRC-SOP-AL-182	Determination of Active Substance (Identity, Content) by HPLC-DAD, GC-FID
	NLRC-SOP-AL-182 by HPLC, GC-FID based on CIPAC MT 46.1, 46.2, 46.3, 46.4	Determination of Active content by HPLC, GC-FID (Accelerated Storage Stability by Heating)
	CIPAC MT 39.1, 39.2, 39.3	Determination of Storage Stability at Low Temperature
Paint (Dyes) and Related products & Varnish - Emulsion paints, Oil Paint, Emulsion primer, Water based texture finishes, Paint of Red iron oxide, Solvent borne alkali resistant primer, Roof coating, Solvent based acrylic enamel paints, polyurethane sanding sealer, Polyurethane primer surface, Solvent based polyurethane paints	ISO 11890-1	Determination of Volatile Organic compound (VOC) and / or semi-volatile organic compounds (SVOC) Content Part 1: Gravimetric method for VOC determination
	ISO 3856-5	Determination of Hexavalent Chromium
	ISO 3856-1	Paints and varnishes — Determination of "soluble" metal content Part 1: Determination of lead content — Flame atomic absorption spectrometric method and dithizone spectrophotometric method
Dairy Products	ISO 17678   IDF 202	Determination of Detection of Vegetable/ Animal Fat Adulteration in milk Fat -by Triglyceride Method
Leather/Footwear/textile/outsole/Leather accessories/Garments/Leather goods	ISO 105-B02	Tests for colour fastness Part B02: Colour fastness to artificial light
Leather/Footwear/Leather accessories/Garments/Leather goods/ Textile/ Footwear	ISO 105X16,	Tests for colour fastness Part X16: Colour fastness to rubbing — Small areas
Footwear/ shoes/ boots/ sandalsFootwear.	BS EN 13515	Test methods for uppers and lining. Water vapour permeability and absorption
Footwear/ shoes/ boots/ sandals	ISO 17699	Footwear — Test methods for uppers and lining — Water vapour permeability
Leather/Footwear/Leather accessories/Garments/Leather goods	ASTM D2617	Standard Test Method for Total Ash in Leather

TL-1167

NATIONAL LABORATORY & RESEARCH CENTER

Effective Date December 11, 2025

Page 59 of 86

IAS/TL/100-1



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	ASTM D3790	Standard Test Method for Volatile Matter (Moisture) of Leather by Oven Drying
	ISO 4045	Leather — Chemical tests — Determination of pH and difference figure
	ISO 22649	Footwear — Test methods for insoles and in socks — Water absorption and desorption- (Method A)
Footwear/outsole	ISO 23529	Rubber — General procedures for preparing and conditioning test pieces for physical test methods
Footwear/ shoes/ boots/ sandals	ISO 17694	Footwear — Test methods for uppers and lining — Flex resistance
Wet wipes/Tissue paper/Facial tissue paper/ Personal Care and baby wet wipes	GSO 143 Inclusion- Clause. 8	Methods of Testing Facial Tissue Paper-Determination of pH
	GSO 143 Inclusion-Clause. 4	Methods of Testing Facial Tissue Paper-Measurement of Dimensions
Carpet shampoo, Liquid Cleaner	GSO 461:1994	Determination of Carpet Impact test
Wet wipes	GSO 2017	Determination of Visual inspection
Facial tissue paper	GSO 575	Determination of Visual inspection
Tissue paper	GSO 143	Determination of Visual inspection
Wet wipes/Tissue paper/Facial tissue paper	GSO 2017/GSO 575	Determination of Tensile strength
Wet wipes/Tissue paper/Facial tissue paper/Paper/ Paperboard/Container-board/ Carton /Related Materials	ISO 12625-4	Tissue paper and tissue products Part 4: Determination of tensile strength
	ISO 534	Determination of Thickness
Baby Diaper	GSO 1833:2017	Single-use Disposable Baby Diapers- Determination of Inspection of Components, Inclusion Clause :7.2.2
	GSO 750	Single-use Disposable Baby Diapers- Determination of Absorption

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 60 of 86

IAS/TL/100-1



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		Filter Inclusion Clause :7.2.3
	GSO 750	Single-use Disposable Baby Diapers- Determination of Absorption Rate Inclusion Clause :7.2.1
	GSO 1833	Single-use Disposable Baby Diapers- Determination of Visual Inspection Inclusion Clause :4.3
	GSO 143	Single-use Disposable Baby Diapers- Determination of Visual Inspection Inclusion Clause :3
Sanitary pads/Baby Diaper	GSO 750	Ladies and Diapers for Babies-Determination of Measurement of Dimensions
Facial Tissue	GSO 143	Determination of the Number of Plies in Facial Tissue Paper
Sanitary pads/Baby Diaper	GSO 750	Methods of Testing Sanitary Pads for Ladies and Diapers for Babies- Determination of Absorbency
Textile/Fabric/Garments/Bags/Footwear Textile/Fabric/Garments/Bags/Footwear (cont'd.)	ASTM-D-1424 -21	Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus
	EN 14682	Safety of children's clothing - Cords and drawstrings on children's clothing
	ISO 7211-2	Textiles — Methods for analysis of woven fabrics construction Part 2: Determination of number of threads per unit length
Leather/Footwear/Leather accessories/Garments/Leather goods	ASTMD 4705	Standard Test Method for Stitch Tear Strength of Leather, Double Hole
Food and Food products, Food contact materials/Feeding Bottle with Teats/Thermo Flask/Soother/Melamine Product/Tableware (Plastic / Rubber/Polymeric Coated Metal)/Silicon	N 1400:2013+A2	Child use and care articles - Soothers for babies and young children - Safety requirements and test methods

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 61 of 86

IAS/TL/100-1



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		Determination of Volatile Compounds Content Clause No.10.8
Food contact materials/Feeding Bottle with Teats/Thermo Flask/Soother/Melamine Product/Tableware (Plastic / Rubber/Polymeric Coated Metal)	EN 646	Paper and board intended to come into contact with foodstuffs - Determination of colour fastness of dyed paper and board
Food contact materials/Feeding Bottle with Teats/Thermo Flask/Soother/Melamine Product/Tableware (Plastic / Rubber/Polymeric Coated Metal)/Paper	EN 645	Paper and board intended to come into contact with foodstuffs - Preparation of a cold water/extract
	EN 647	Paper and board intended to come into contact with foodstuffs - Preparation of a Hot water extract
Plastic package	GSO 1863	Food packages - Part 2: Plastic package – General requirements  Determination of Visual Inspection Clause 4.0
	GSO 1863	Food Packages - Part 1: General Requirements  Determination of Size measurement
Paper/Paperboard/Containerboard/Carton/Related Materials	ISO 1924	Determination of Tensile strength
	ISO 287	Paper and board — Determination of moisture content of a lot — Oven-drying method
	ISO 6588-1	Paper, board and pulps — Determination of pH of aqueous extracts Part 1: Cold extraction
Toys, Textile and Textile products and accessories	16 CFR 1501	Method For Identifying Toys and Other Articles Intended for Use by Children Under 3 Years of Age Which Present Choking, Aspiration, Or Ingestion Hazards Because Of Small Parts
	16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 62 of 86

IAS/TL/100-1



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		intended for use by children under 8 years of age.
	16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.
Toys, Textile products, accessories, Decorative and Functional items	ASTM D7142	Standard Test Method for Holding Strength of Prong-Ring Attached Snap Fasteners  Determination of Tension test
Packaging materials, laminated material, Carton Board, Corrugated board, Paper and Paper Products	ASTM D6988-21	Standard Guide for Determination of Thickness of Plastic Film Test Specimens Determination of Thickness
Fruits and Vegetables	NLRC-SOP-AL-195 based on ISO 763	Determination of Acid Insoluble Ash
	ISO 2173	Determination of Soluble solid Content - Refractometer method
	FSSAI Manual of Fruits and Vegetables	Determination of Fruit Content
	NLRC-SOP-AL-090	Determination of Dried Fruits- Fruits and Vegetables Blemished unit/Mouldy fruit/Damage caused by pests/Foreign matter/Extraneous vegetable material (DEFECTS)
Cereals and Pulses/Flours	AOAC Official Method 939.05	Determination of Acidity of Extracted Fat
Herbs, Spices and Condiments	NLRC-SOP-AL-090 based on ISO 927	Determination of Extraneous Matter
	NLRC-SOP-AL-025 based on AOAC Official Method 2001.12	Determination of Moisture Content by Karl Fischer Method(By Seasoning Powder)
Animal Feed	ISO 13906	Determination of Acid Detergent Fiber and Acid Detergent Lignin Content
	ISO 16472	Determination of Neutral Detergent Fiber Content
Herbs, Spices and Condiments	FSSAI Method No: 10.012:2021(Manual of	Determination of Non-Volatile Ether Extract

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 63 of 86

IAS/TL/100-1



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	Spices, Herbs and Condiments)	
	FSSAI Method No: 10.019:2021(Manual of Spices, Herbs and Condiments)	Determination of the percentage of Light Berries in Whole Black/ White Pepper
	NLRC-SOP-AL-195	Determination of Acid Insoluble Ash
Dairy and Dairy Products	AOAC 990.21	Determination of Solids-Not-Fat Content
	FSSAI Method No: 01.054.2022(Manual on Dairy and Dairy Products)	Determination of Milk Protein in Milk Solids Not Fat
Oils and Fats	FSSAI Method No: 02.012:2021(Manual of Oils and Fats)	Determination of Bellier Test (turbidity temperature) acetic acid method
	AOAC Official method 929.08 Salad oils (refined, winterized). Cold Test	Determination of Test for Refined Winterized Salad Oils – Cold Test
	AOAC Method 945.102	Oil (mineral) in Fats
	FSSAI Method No: 02.052:2021(Manual of Oils and Fats)	Spectrophotometric method for determination of gamma Oryzanol in Rice bran oil and other vegetable oils
Food Grade Salts	IS 7224	Determination of Sodium Chloride Content
	AOAC 925.55-D	Determination of Matter Insoluble in Acid
Food Grade Salts(cont'd.)	AOAC 925.55-C	Determination of Insoluble Matter in Water
	AOAC 925.55 -F	Determination of Sulphate Content
	AOAC 925.55-B	Determination of The Loss on Drying (Conventional Moisture)
	AOAC 925.56	Determination of Iodine Content
Cereals and Pulses/Flours	FSSAI Method No: 03.013:2023(Manual of Cereals and Pulses)	Determination of Gluten Content
Shrimp, Fish & Fish Products, Milk & Milk Products, Honey & Honey Products, Meat & Meat Products, Animal Feed, Fish Feed, Sea Foods, Food and Food Products	NLRC-SOP-AL-174	Determination of Nitrofurans and it's Metabolites <ol style="list-style-type: none"> <li>1. Furazolidone</li> <li>2. Furaltadone</li> <li>3. Nitrofuazone</li> <li>4. Nitrofurantoin</li> </ol>

TL-1167

NATIONAL LABORATORY & RESEARCH CENTER

Effective Date December 11, 2025

Page 64 of 86

IAS/TL/100-1



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		<ol style="list-style-type: none"> <li>5. Semicarbazide(SEM)</li> <li>6. 1-Aminohydantion(AHD)</li> <li>7. Nitrofuraf</li> <li>8. AOZ</li> </ol>
	NLRC-SOP-AL-175	<p>Determination of Nitroimidazoles</p> <ol style="list-style-type: none"> <li>1. Dimetridazole</li> <li>2. Metronidazole</li> <li>3. Ronidazole</li> </ol>
	NLRC-SOP-AL-176	<p>Determination of Chloramphenicol Groups</p> <ol style="list-style-type: none"> <li>1. Chloramphenicol</li> <li>2. Florfenicol</li> <li>3. Thiamphenicol</li> </ol>
Water	NLRC-SOP-AL-197 based on US EPA 533 and US EPA 537	<p>Determination of Per- and Polyfluoroalkyl Substances</p> <ol style="list-style-type: none"> <li>1. Perfluoro-n-butanoic acid</li> <li>2. Perfluoro-n-pentanoic acid</li> <li>3. Perfluorobutane-1-sulfonic acid</li> <li>4. 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 Fluorotelomer Sulfonic Acid)</li> <li>5. Perfluoro-n-hexanoic acid</li> <li>6. Perfluoropentanesulfonic acid</li> <li>7. Perfluoro-n-heptanoic acid</li> <li>8. Perfluorohexane-1-sulfonic acid</li> <li>9. 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 Fluorotelmoer Sulfonic Acid)</li> <li>10. Perfluoro-n-octanoic acid</li> <li>11. Perfluoroheptanesulfonic acid</li> <li>12. Perfluoro-n-nonanoic acid</li> </ol>
Water(cont'd.)	NLRC-SOP-AL-197 based on US EPA 533 and US EPA 537.(cont'd.)	

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		<ol style="list-style-type: none"> <li>13. Perfluorooctane-1-sulfonic acid</li> <li>14. 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 Fluorotelmoer Sulfonic Acid)</li> <li>15. Perfluoro-n-decanoic acid</li> <li>16. Perfluorononane-sulfonic acid</li> <li>17. N-methylperfluoro-1-octanesulfonamidoacetic acid</li> <li>18. Perfluorodecane-1-sulfonic acid</li> <li>19. N-ethylperfluoro-1-octanesulfonamidoacetic acid</li> <li>20. Perfluorooctane sulfonamide</li> <li>21. Perfluoro-n-undecanoic acid</li> <li>22. Perfluoro-n-dodecanoic acid</li> <li>23. Perfluoro-n-tridecanoic acid</li> <li>24. Perfluoro-n-tetradecanoic acid</li> </ol>
Cosmetics & Personal care Products/Food and Food products	NLRC-SOP-AL-178	Determination of Polymer Residues <ol style="list-style-type: none"> <li>1. Acrylamide</li> <li>2. Acrylic Acid</li> <li>3. Methacrylic Acid</li> </ol>
Cosmetics & Personal care Products, Hair Colour dyes, Henna Hair dyes & it's Products.	NLRC-SOP-AL-155	Determination of Bandrowski's Base
Cosmetics & Personal care Products, Perfumes, ,Perfumery products	NLRC-SOP-AL-156	Determination of Nitro-Musks <ol style="list-style-type: none"> <li>1. Musk Ambrette</li> <li>2. Musk Tibeten</li> <li>3. Musk Moskene</li> <li>4. Musk Xylene</li> <li>5. Musk Ketone</li> </ol>
Soil/Sediments/Sludges	NLRC-SOP-AL-190 based on ISO 18400-205	Determination of Soil-Sampling procedure
	NLRC-SOP-AL-192 based on ISO 10390	Determination of pH at 25°C



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	NLRC-SOP-AL-193 based on ISO 11265	Determination of Electrical conductivity at 25°C
	NLRC-SOP-AL-221 based on ISO 11465	Determination of Moisture (water content)
	NLRC-SOP-AL-220 based on BS 1377	Determination of Bulk Density
Soil	INLRC-SOP-AL-198 based on ISO 10694 & LCK 380	Total Organic Carbon & Total Carbon
Soil/Sediments/Sludges	NLRC-SOP-AL-198 based on ISO 10694/LCK 380	Determination of Total organic matter
Water & Wastewater	NLRC-SOP-AL-160 based on APHA 3500 Cr <sup>-6</sup> /B/ HACH 8023	Determination of Hexavalent chromium
Water & Wastewater(cont'd.)	NLRC-SOP-AL- 185based on USEPA 8015 C/ 3540	Determination of Total petroleum Hydrocarbons (C7-C40)
Water & Wastewater(cont'd.)	NLRC-SOP-AL-183 based on APHA 6431	Determination of Polychlorinated Biphenyls (PCB's)
Water & Wastewater(cont'd.)	NLRC-SOP-AL-183 based on APHA 6431(cont'd.)	<ol style="list-style-type: none"> <li>1. 2, 4'-Dichlorobi- phenyl (PCB 8)</li> <li>2. 2,2',5-Trichlorobi- phenyl (PCB 18)</li> <li>3. 2,4,4'-Trichlorobi- phenyl (PCB 28)</li> <li>4. 2,2',3,5'-Tetrachlo- robiphenyl (PCB 44)</li> <li>5. 2,2',5,5'-Tetrachlo- robiphenyl (PCB 52)</li> <li>6. 3,3',4,4'-Tetrachlo- robiphenyl (PCB 77)</li> <li>7. 2,3',4,4'-Tetrachlo- robiphenyl (PCB 66)</li> <li>8. 3,3',4,4',5-Penta- chlorobiphenyl (PCB 126)</li> <li>9. 2,3,3',4,4'-Penta- chlorobiphenyl (PCB 105)</li> <li>10. 2,2',4,5,5'-Penta- chlorobiphenyl (PCB 101)</li> </ol>



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		<ol style="list-style-type: none"> <li>11. 2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)</li> <li>12. 2,3',4,4',5-Pentachlorobiphenyl (PCB 118)</li> <li>13. 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)</li> <li>14. 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)</li> <li>15. 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)</li> <li>16. 2,2',3,4,4',5,5'-Hexachlorobiphenyl (PCB 180)</li> <li>17. 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)</li> <li>18. 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)</li> <li>19. 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)</li> <li>20. Decachlorobiphenyl (PCB 209)</li> </ol>
<p>Water &amp; Wastewater(cont'd.)</p>	<p>NLRC-SOP-AL-184 based on USEPA 1613 B</p>	<p>Determination of Dioxins</p> <ol style="list-style-type: none"> <li>1. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)</li> <li>2. 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)</li> <li>3. 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin-(1,2,3,4,7,8-HxCDD)</li> <li>4. 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin-(1,2,3,4,6,7,8-HpCDD)</li> <li>5. Octachlorodibenzo-p-dioxin-(OCDD)</li> </ol>



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	NLRC-SOP-AL-216 based on USEPA 8041 A & APHA 5530	Determination of Phenols  1. 2,4,6-Trichlorophenol 2. 4-Chloro-3-methylphenol 3. 2-Chlorophenol 4. 2,4-Dichlorophenol 5. 2-Nitrophenol 6. 4-Nitrophenol 7. 2,4-Dinitrophenol 8. 2-Methyl-4,6-dinitrophenol 9. Pentachlorophenol 10. Phenol 11. 2,4-Dimethylphenol
Tobacco, Nicotine Pouches, Tobacco Products, Nicotine-Containing Products, Oral Nicotine Products, Smokeless tobacco products and Related Products (Cigarettes /Filter Rods/Heated Tobacco Products/ Cigar/ Molasses/ Electronic Nicotine Products)	Coresta Recommended Method N° 103	Determination of Nitrate in Tobacco and Tobacco products by IC
	NLRC-SOP-CL-067	Determination of Sulfur and Potash in Tobacco and Tobacco Products
Cigarettes - Non-Filter Tipped and Filter-Tipped Cigarettes	EAS 110	Determination of burning quality for cigarettes
	NIS 463	Determination of End Stability of Cigarettes
Cigarettes - Filter Tipped Cigarettes	ISO 4388	Determination of the smoke condensate retention index of a filter - Direct spectrometric method / Filter Filtration Efficiency
Tobacco, Nicotine Pouches, Tobacco Products, Nicotine-Containing Products, E-liquids, E-vape, Oral Nicotine Products, Smokeless tobacco products and Related Products (Cigarettes /Filter Rods/Heated Tobacco Products/ Cigar/ Molasses/ Electronic Nicotine Products)	NLRC-SOP-CL-068	Determination of Qualitative Screening analysis for selected drugs of abuse (Narcotics, Stimulants, Hallucinogens, Depressants, Anesthetics, Inhalants) by LC-MS/MS and GC-MS/MS with MRM triggered product ion scanning

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 69 of 86

IAS/TL/100-1



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Cigarette Filter Rods	Coresta Recommended Method N° 59	Determination of Triacetin in Filter Rods by Gas Chromatographic Analysis
Cosmetics, Shampoo Products, Hair serum, Hair Lotion and Personal Care Products	NLRC-SOP-AL-167	Determination of Selected Anti-Dandruff Agents by UHPLC-DAD <ol style="list-style-type: none"> <li>1. Zinc Pyrithione</li> <li>2. Ketoconazole</li> <li>3. Climbazole</li> <li>4. Piroctone Olamine</li> <li>5. Ciclopirox Olamine</li> </ol>
Sunscreen Products, Sunscreen Cream, Sunscreen Lotion, Sunscreen Spray, Sunscreen Lip balm, Cosmetic products and Personal Care Products	NLRC-SOP-AL-169	Determination of Selected UV Sunscreen Agents by UHPLC-DAD <ol style="list-style-type: none"> <li>1. Octinoxate (Octyl methoxy cinnamate/ethylhexyl methoxycinnamate)</li> <li>2. Octisalate (2-Ethylhexyl salicylate/octyl salicylate)</li> <li>3. Avobenzene (Butyl methoxydibenzoylmethane)</li> <li>4. Oxybenzone (Benzophenone-3)</li> <li>5. Homosalate (Homomenthyl Salicylate)</li> <li>6. Octocrylene</li> <li>7. Ensulizole (Phenylbenzimidazole sulfonic acid)</li> <li>8. Benzophenone</li> <li>9. P-Aminobenzoic acid</li> <li>10. Sulisobenzene (Benzophenone-4)</li> <li>11. Padimate O (2-Ethylhexyl 4-(dimethylamino)benzoate/Octyl dimethyl PABA)</li> <li>12. 3-Benzylidenecamphor</li> <li>13. 3-(4-Methylbenzylidene)Camphor (Encamene)</li> </ol>
Sunscreen Products, Sunscreen Cream, Sunscreen Lotion, Sunscreen Spray, Sunscreen Lip balm, Cosmetic products and Personal Care Products(cont'd.)	NLRC-SOP-AL-169 (cont'd.)	
	NLRC-SOP-AL-170	Determination of Ammonia

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Cosmetic Products, Shampoo Products, Hair Dye Products, Hair dye Cream, Hair Dye Shampoo, Hair Spray, Hair color mixture and Personal Care Products	NLRC-SOP-AL-173	Determination of Selected Additives by UHPLC-DAD <ol style="list-style-type: none"> <li>1. Catechol</li> <li>2. Minoxidil</li> <li>3. Chlorhexidine Digluconate</li> <li>4. Quinine</li> <li>5. Chlorhexidine</li> </ol>
Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board, Packaging	NLRC-SOP-AL-208 based on ISO 17070, EN 17134-2	Determination of OPP & Chlorophenols <ol style="list-style-type: none"> <li>1. Pentachlorophenol-PCP</li> <li>2. Tetra chlorophenols- TeCP</li> <li>3. Trichlorophenols-TCP</li> <li>4. Dichlorophenols-DCP</li> <li>5. Monochlorophenols- MCP</li> <li>6. o-Phenylphenol – OPP</li> </ol>
Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board	ISO 18254-1	Determination of AlkylPhenol Ethoxylates (APEO) by LCMSMS <ol style="list-style-type: none"> <li>1. Octylphenoethoxylates-OPEO</li> <li>2. Nonylphenoethoxylates-NPEO</li> </ol>
Garments, Footwear, Metallic accessories, Coated metal, Toys, Children's products, Soother holder	BS EN 1811/ EN12472	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin
	EN 12471	Determination of Nickel Spot test
Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board	NLRC-SOP-AL-203 based on ISO 10580	Determination of VOC by GC-MS/HS
Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board, Packaging	NLRC-SOP-AL-223 based on ISO-15318 & Resolution AP (89) 1	Determination of Polychlorinated Biphenyls (PCB's) <ol style="list-style-type: none"> <li>1. 2,4'-Dichlorobiphenyl (PCB 8)</li> </ol>

TL-1167

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Effective Date December 11, 2025

Page 71 of 86

IAS/TL/100-1



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<p>Textile, Leather, Polymer, Coated paint, toys, bag, footwear and its components, Paper and carton board, Packaging (cont'd.)</p>	<p>NLRC-SOP-AL-223 based on ISO-15318 &amp; Resolution AP (89) 1 (cont'd.)</p>	<ol style="list-style-type: none"> <li>2. 2,2',5-Trichlorobiphenyl (PCB 18)</li> <li>3. 2,4,4'-Trichlorobiphenyl (PCB 28)</li> <li>4. 2,2',3,5'-Tetrachlorobiphenyl (PCB 44)</li> <li>5. 2,2',5,5'-Tetrachlorobiphenyl (PCB 52)</li> <li>6. 3,3',4,4'-Tetrachlorobiphenyl (PCB 77)</li> <li>7. 2,3',4,4'-Tetrachlorobiphenyl (PCB 66)</li> <li>8. 3,3',4,4',5-Pentachlorobiphenyl (PCB 126)</li> <li>9. 2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)</li> <li>10. 2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)</li> <li>11. 2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)</li> <li>12. 2,3',4,4',5-Pentachlorobiphenyl (PCB 118)</li> <li>13. 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)</li> <li>14. 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)</li> <li>15. 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)</li> <li>16. 2,2',3,4,4',5,5'-Hexachlorobiphenyl (PCB 180)</li> <li>17. 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)</li> <li>18. 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)</li> <li>19. 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl</li> </ol>
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		(PCB 206) 20. Decachlorobiphenyl (PCB 209)
Food contact material, Water contact material, Cosmetic container, Food packaging materials, Paper and board, Recycled paper and cardboard fibers, Additives	NLRC-SOP-AL-206 based on EN 645 & EN 647	Determination of Intentionally added substances (IAS) - Extraction of Isothiazolinones biocides.  1. Benzisothiazolinone (BIT) 2. Methylisothiazolinone (MIT) 3. Methylchloroisothiazolinone (CMIT)
Paper, cardboard or paperboard (fresh and recycled fiber pulp, as well as production aids, refining agents, coatings, ink, adhesives, and other additives used throughout the papermaking process)	NLRC-SOP-AL-200 based on EN 645, EN 647, BS EN 17163 & Resolution AP (89) 1	Determination of Intentionally added substances (IAS) - Migration of Primary Aromatic Amines (PAA) and Primary un-sulphonated aromatic amines  1. 1,4-Phenylenediamine 2. 2,4-Diaminoanisole 3. 2,4-Diaminotoluene 4. 4,4-Oxydianiline 5. 4,4-Diaminodiphenylmethane 6. Benzidine 7. Aniline 8. 4,4-Methylene-bis-(2-methylaniline) 9. o-Anisidine 10. 2,4 dimethylaniline (isomer) 11. o-Dianisidine 12. o-Toluidine 13. 3,3-Dimethylbenzidine 14. 2-Methoxy-5-methylaniline 15. 2,4,5-Trimethylaniline 16. 4,4-Diaminodiphenyl sulfide 17. 2-Naphthylamine 18. 4-Chloroaniline 19. 2,6-Dimethylaniline 20. 4-Aminobiphenyl
Paper, cardboard or paperboard (fresh and recycled fiber pulp, as well as production aids, refining agents, coatings, ink, adhesives, and other additives used throughout the papermaking process) (cont'd.)	NLRC-SOP-AL-200 based on EN 645, EN 647, BS EN 17163 & Resolution AP (89) 1 (cont'd.)	

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		<p>21. 4-Chloro-2-methyl-aniline</p> <p>22. 5-nitro-o-toluidine</p> <p>23. 3,3-Dichlorobenzidine</p> <p>24. 4-Aminoazobenzene</p> <p>25. 4,4-Methylene-bis-(2-chloroaniline)</p> <p>26. o-aminoazotoluene</p>
Food packaging materials, Paper and board, Recycled paper and cardboard fibers & food Contact Materials	NLRC-SOP-AL-202 based on EN 13130-1 & EN 15519	<p>Determination of non-Intentionally added substances (NIAS) - Migration of</p> <ol style="list-style-type: none"> <li>4,4'-Bis(dimethylamino)- benzophenone (Michler's ketone)</li> <li>4,4'-Bis(diethylamino)- benzophenone (Ethyl Michler's ketone)</li> </ol>
<p>Food packaging materials, Paper and board, Recycled paper and cardboard fibers</p> <p>Food packaging materials, Paper and board, Recycled paper and cardboard fibers(cont'd.)</p>	<p>NLRC-SOP-AL-205 based on EN 13130-1 &amp; EN 15519</p> <p>NLRC-SOP-AL-205 based on EN 13130-1 &amp; EN 15519 (cont'd.)</p>	<p>Determination of non-Intentionally added substances (NIAS) - Migration of Phthalates</p> <ul style="list-style-type: none"> <li>• Dimethyl phthalate</li> <li>• Diethyl phthalate</li> <li>• Di-n-butyl phthalate</li> <li>• Bis(2-methoxyethyl) phthalate</li> <li>• Diamyl phthalate</li> <li>• Benzyl butyl phthalate</li> <li>• Dicyclohexyl phthalate</li> <li>• Bis(2-ethylhexyl) phthalate</li> <li>• Di-n-octyl phthalate</li> <li>• Diisononyl phthalate</li> <li>• Diiso decyl phthalate</li> <li>• Diiso butyl phthalate</li> <li>• Bis(2-ethoxyethyl) phthalate</li> <li>• Diallyl phthalate</li> <li>• Di hexyl phthalate</li> <li>• Bis(2-n-butoxyethyl) phthalate</li> <li>• Dinonyl phthalate</li> </ul>
Food contact material, Water contact material, Cosmetic container, Food packaging materials,	NLRC-SOP-AL-207 Based on EN 13130-1 & EN 15519	Migration of Benzophenone

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Paper and board, Recycled paper and cardboard fibers		<ol style="list-style-type: none"> <li>2-methylbenzophenone,</li> <li>3-methylbenzophenone,</li> <li>4-methylbenzophenone</li> </ol>
Food packaging materials, Paper and board, Recycled paper and cardboard fibers	NLRC-SOP-AL-125 based on EN 15519, EN 645, EN 647	Determination of non-Intentionally added substances (NIAS) - Migration of Bisphenol A (BPA) Bisphenol S (BPS)
Insecticide Products Household, Aerosols, Aircraft products, Plant protection products, Pesticides technical and Formulated products	CIPAC MT 191	Determination of Acidity or Alkalinity of Formulations
	CIPAC MT 75.1, 75.2, 75.3	Determination of pH Values
	CIPAC MT 42.1, 42.2, 59.1, 59.4, 170, 182, 167	Determination of Particle size distribution
	CIPAC MT 148, 148.1	Determination of Pourability
	CIPAC MT 47.1, 47.2, 47.3	Determination of Persistent foam
	CIPAC MT 160, 174	Determination of Spontaneity of dispersion
	CIPAC MT 184.1, 161, 168, 15.1, 177	Determination of Suspensibility
	CIPAC MT 185	Determination of Wet Sieve Test
	CIPAC MT 53.3	Determination of Wettability
	CIPAC MT 174	Determination of Dispersibility of Water Dispersible Granules
	CIPAC MT 172	Determination of Degree of Flowability
	CIPAC MT 180	Determination of Dispersion Stability
	CIPAC MT 3.1	Determination of Density
	OCSP 830.6302, 830.6303, 830.6304	Determination of Visual Inspection <ol style="list-style-type: none"> <li>Colour</li> <li>Odour</li> <li>Physical state</li> </ol>
Insecticide Products Household, Aerosols, Aircraft products	ASTM D3074/ ASTM D3063	Determination of Internal pressure
	ASTM D3074	Determination of Clogging of Aerosol dispenser valves
Food and Food products, Raw material	NLRC-SOP-AL-218	Determination of Mono Sodium Glutamate - MSG
Fruits And Vegetables /Processed Fruits and Vegetables	FSSAI Manual 2012 Of Fruits and Vegetables 2012/ AOAC 968.30-1968	Determination of Drained Weight

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Effective Date December 11, 2025

Page 75 of 86

IAS/TL/100-1



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Non-Newtonian Materials/ Liquids Pesticides, Insecticides & Aerosols	Rotational Viscometer Method -ASTM D2196/ CIPAC MT 192	Determination of Viscosity
Pesticides, Insecticides and Aerosols	CIPAC MT 17	Determination of Loss in Weight
	CIPAC MT 12	Determination of Flash point
	ASTM D 93	Determination of Flash point
	CIPAC MT 5	Determination of Material Solubility in Organic Solvent
Cereals And Pulses/Flours	AOAC Official Method 965.22Sorting Corn Grits Sieving Method First Action 1965 Final Action 1966	Determination of Granularity in Maida (Refined Wheat flour): Sieving Method
	AOAC Method No. 970.24	Determination of Uric Acid
Herbs, Spices and Condiments  Herbs, Spices and Condiments (cont'd.)	ASTA Method 2.0/ AOAC 2000 Official Method 986.21	Determination of Moisture Content(Dean and Stark Distillation Method)
	ASTA Method 12.1/ AOAC 2000 Official Method 987.07, Piperine in Pepper Preparations, Spectrophotometric Method	Determination of Piperine content of black pepper by UV-VIS spectrophotometry
	ASTA Method 21.3/ AOAC 995.03	Determination of Capsaicin, Scoville heat unit
	ASTA Method 20-1	ASTA Colour Value
	ASTA Method 18.0	Determination of Total Curcuminoid content of Turmeric and Oleoresins by UV-VIS Spectrophotometry
	FSSAI Method No:10.031:2021(Manual of Spices, Herbs and Condiments)	Determination of Total Curcuminoid content of Turmeric and Oleoresins by UV-VIS Spectrophotometry
	ASTA Method 5.2/ AOAC Official Method 962.17	Determination of Volatile Oil
	NLRC-SOP-AL-219	Determination of Sudan dyes

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Dairy and Dairy Products	FSSAI Manual of Dairy and Dairy Products (Method No: FSSAI 01.007:2022)	Detection of Sulphates in Milk
Meat and Meat Products/Sea food	IS 5960: Part 3: 1970	Determination of TVBN
Meat and Meat Products	FSSAI Manual on Cereal & Cereal Products Method No. FSSAI 03.047.2023	Determination of Starch content
	AOAC 945.57: Agar in Meat	Determination of Agar
Food and food products, Food contact materials/ Feeding Bottle with Teats/ Thermo Flask/ Soother holder /Melamine Product/ Tableware (Plastic /Rubber/ Polymeric Coated Metal)/ Silicon/ Paper and carton board	NLRC-SOP-AL-204	Determination of Vinyl chloride monomer by GCMS-HS
Oils and Fats  Oils and Fats (cont'd.)	AOAC Official method 893.01-Oil (sesame) in Oils	Determination of Test for presence of Sesame Oil (Baudouin test)
	AOAC Official method 925.41 Acids (volatile) in oils and fats.	Determination of Reichert-Meissl and Polenske Value
	AOAC Official method 197.02-oil (cottonseed) in oils and fats	Determination of presence of Cottonseed Oil (Halphen's test)
	FSSAI Method No:02.015:2021(Manual of Oils and Fats)	Determination of Cloud Point in Palmolein (and test for presence of palmolein in other oils)
	FSSAI Method No:02.016:2021(Manual of Oils and Fats)	Determination of Test for presence of Rice Bran Oil
	FSSAI Method No:02.017:2021(Manual of Oils and Fats)	Determination of Test for presence of Linseed Oil (Hexabromide test)
	ISO 3656	Determination of Oil Purity and Degree of Oxidation  1. K 232nm, 2. K 266nm, 3. K 270nm, 4. K 274nm, Delta K"
	EC Regulation 2568/91	Determination of Oil Purity and Degree of Oxidation  5. K 232nm, 6. K 266nm, 7. K 270nm, 8. K 274nm, Delta K"

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<p>Oil &amp; Oil Products, Sea Foods, Feed, Food and Food Products, Water, Wastewater, Cosmetics, Food contact materials, Food ware Article, Food packaging materials, Thermoplastic, plastic, Rubber</p>	<p>NLRC-SOP-AL-177 based on USEPA 533 &amp; 537.1, ISO 25101, ISO 21675 &amp; FDA C-010.03</p>	<p>Determination of Per- and Polyfluoroalkyl Substances</p> <ol style="list-style-type: none"> <li>1. Perfluoro-n-butanoic acid</li> <li>2. Perfluoro-n-pentanoic acid</li> <li>3. Perfluorobutane-1-sulfonic acid</li> <li>4. 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 Fluorotelomer Sulfonic Acid)</li> <li>5. Perfluoro-n-hexanoic acid</li> <li>6. Perfluoropentanesulfonic acid</li> <li>7. Perfluoro-n-heptanoic acid</li> <li>8. Perfluorohexane-1-sulfonic acid</li> <li>9. 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 Fluorotelmer Sulfonic Acid)</li> <li>10. Perfluoro-n-octanoic acid</li> </ol>
<p>Oil &amp; Oil Products, Sea Foods, Feed, Food and Food Products, Water, Wastewater, Cosmetics, Food contact materials, Food ware Article, Food packaging materials, Thermoplastic, plastic, Rubber (cont'd.)</p>	<p>NLRC-SOP-AL-177 based on USEPA 533 &amp; 537.1, ISO 25101, ISO 21675 &amp; FDA C-010.03 (cont'd.)</p>	<ol style="list-style-type: none"> <li>11. Perfluoroheptanesulfonic acid</li> <li>12. Perfluoro-n-nonanoic acid</li> <li>13. Perfluorooctane-1-sulfonic acid</li> <li>14. 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 Fluorotelmer Sulfonic Acid)</li> <li>15. Perfluoro-n-decanoic acid</li> <li>16. Perfluorononanesulfonic acid</li> <li>17. N-methylperfluoro-1-octanesulfonamidoacetic acid</li> <li>18. Perfluorodecane-1-sulfonic acid</li> <li>19. N-ethylperfluoro-1-octanesulfonamidoacetic acid</li> <li>20. Perfluorooctane sulfonamide</li> </ol>



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		187) 18. 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195) 19. 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206) 20. Decachlorobiphenyl (PCB 209)
	NLRC-SOP-AL-179	Determination of Dioxines Groups by GCMSMS  1. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) 2. 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD) 3. 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD) 4. 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD) 5. Octachlorodibenzo-p-dioxin-(OCDD)
Food and Agricultural Products	International journal of Scientific and Research Publications, Volume 9, Issue 5 May 2019-ISSN 2250-3153	Determination of Total Flavonoids
Cereals and Pulses/Flours	AOAC Official Method 941.16 Filth in Grain Products and Brewer's Grits	Determination of Rodent Excreta and Hair & Light Filth
	AOAC Official method 993.26 Light filth in Whole Wheat Flour	Determination of Light Filth in Whole Wheat Flour
	FSSAI Manual of Cereals and Pulses (Method No: FSSAI 03.015:2023)	Determination of Alcoholic Acidity in Cereal and Grain Flours
Cosmetics and Personal care products- Skin cream, Body lotion	NLRC-SOP-CL-047	Determination of Ammonia as NH3
Honey	NLRC-SOP-AL-217	Determination of MGO
Foodstuffs	AOAC 994.10	Determination of Cholesterol
Insecticide Products Household, Aerosols, Aircraft products, Plant protection products,	CIPAC MT 36.3	Determination of Emulsion characteristics of

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Page 80 of 86

IAS/TL/100-1



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Pesticides technical and Formulated products		emulsifiable concentrates(Emulsion Stability and Re-emulsification)
	CIPAC MT 2	Determination of Melting point
	CIPAC MT 179	Determination of Dissolution degree and Solution Stability
Pesticides, Insecticides and Aerosols	CIPAC MT 3	Determination of Density, Specific gravity and weight per milliliter
	CIPAC MT 15	Determination of Suspensibility of wettable powders in water
Edible Common Salt [Iodized Salt, Iron Fortified Common Salt, Iron Fortified Iodized Salt]	AOAC 925.55-D	Determination of Insoluble Matter in Acid
Animal Feed	ISO 13906	Acid Detergent Fiber Content
Milk	ISO 15323   IDF 173	Whey Protein Nitrogen Index -WPNI
Milk & Milk Products	AOAC:970.33	Boric Acid-Qualitative Parameters
Soil, Sediments & Sludges  Soil, Sediments & Sludges (cont'd.)	NLRC-SOP-AL-191	Determination Of Total Petroleum Hydrocarbons (C7-C40) by GC-MS
	NLRC-SOP-AL-194	Determination Of Polynuclear Aromatic Hydrocarbons (PAH's) by GC-MS/MS
	NLRC-SOP-AL-187	Determination Of Polychlorinated biphenyls (PCB's) by GC MS MS
	NLRC-SOP-AL-196 based on ISO/TS 22171:2023	Determination Of Cation Exchange Capacity (CEC) by ICP MS
Emulsion paints, oil Paints & Varnishes	NLRC-SOP-AL-215 based on ASTM D4457	Determination of Halogenated Hydrocarbon by GC-FID (Dichloromethane and 1,1,1-Trichloroethane)
Fuel oil/ Bunker Oil/ Distillate Fuels/ Mineral Oil/ Naphtha/ Lubricating Base Oils/ Transformer Oil/ Light hydrocarbons / Spark Ignition engine Fuel	NLRC-SOP-AL-214 based on UAE.S 477, BS EN 590, ASTM D 4294, ISO 13032m & ISO 20847	Determination of Sulfur by EDXRF

TL-1167

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Effective Date December 11, 2025

Page 81 of 86

IAS/TL/100-1



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Solids, Liquid, Powder materials, Metals & Alloys, Rocks, Mining minerals, Drill cores, Building materials, Cement, Clinker, Limestone, Gemstones, Glass & Ceramics, Bricks, Gypsum, Fly ash, Blast furnace slags, Tiles, Micro silica, Kaolin clay	NLRC-SOP-AL-210 based on ISO 29581-2/ ASTM C114-24	Determination of Chemical analysis of Oxides and Elemental Composition by EDXRF
Electrotechnical products, Plastic and polymer, electronic devices comes under ROHS/ WEEE/ELV	ICE 62321-3-1	Screening-Determination of Lead, Mercury, Cadmium, Total chromium, Antimony, Chlorine and Total Bromine by X-ray fluorescence spectrometry (ED-XRF)
	ASTM F2617-15	Screening-Determination of Lead, Mercury, Cadmium, Total chromium, Antimony, Chlorine and Total Bromine by X-ray fluorescence spectrometry (ED-XRF)
Plastics and polymer, Preform	NLRC-SOP-AL-209 based on ASTM-F2013	Determination of Acetaldehyde Content by GC MS-HS
Tissue Paper	GSO 143	Number of Tissues in Box
Chemical Disinfectants and Antiseptics	EN 1650	Quantitative Suspension Test for the Evaluation of Fungicidal or Yeastocidal Activity of Chemical Disinfectants and Antiseptics
	NLRC-SOP-MML-107	Quantitative Suspension Test for the Evaluation of Fungicidal or Yeastocidal Activity of Chemical Disinfectants and Antiseptics
Water, Human & Animal Parenteral drugs, Biological Products and Medical Devices	NLRC-SOP-MML-112	Detection of Endotoxin in Water-Gel Clot Assay Method
Food, Feeds, Beverages, Cosmetics, Personal Care Products, Tobacco Products, Nicotine Containing Products, Nicotine Pouches and other Non - Sterile Products	NLRC-SOP-MML-074	Determination of accelerated & Real Time shelf life in food, feed, pharmaceuticals and other non-sterile products
Food & Food Products, Feeds, Beverages, & Swabs	NLRC-SOP-MML-110	Standard operating procedure for the determination of Gluten by ELISA method
Paper and Board materials and Articles intended for food contact	DIN EN 1104	Determination of the transfer of antimicrobial constituents Paper and board intended to contact with foodstuffs.

TL-1167

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Effective Date December 11, 2025

Page 82 of 86

IAS/TL/100-1



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Microbiology- Food & Food Products, Beverages, Feeds & Swabs	NLRC-SOP-MML-109	Detection of Gluten by Lateral Flow Kit Method
	NLRC-SOP-MML-108	Screening of salmonella spp. in food & food products based on real-time polymerase chain reaction (RT-PCR) method
	NLRC-SOP-MML-115	Detection of Milk Allergens by Lateral Flow Kit Method
	NLRC-SOP-MML-116	Detection of Egg Allergens by Lateral Flow Kit Method
	NLRC-SOP-MML-119	Determination of Milk by ELISA method
	NLRC-SOP-MML-120	Determination of Egg Allergens by ELISA Kit Method
	NLRC-SOP-MML-122	Determination of Sesame by ELISA Kit Method
	NLRC-SOP-MML-121	Determination of Hazelnut Allergens by ELISA method
	NLRC-SOP-MML-123	Determination of Pistachio Allergens by ELISA method
Water & Wastewater	NLRC-SOP-MML-105	Detection of Helminth Egg in Water & Wastewater
	NLRC-SOP-MML-113	Detection of water borne Parasites ,algae, Worms, insects, arthropods, maggots by Microscopy
Food, Food Products, Feeds and Beverages	C.C.F.R.A.:2.10.1: 2007	Enumeration of Lipolytic Bacteria
	NLRC-SOP-MML-114	Enumeration of Lipolytic Bacteria
	CCFRA .2.11.1:2007	Enumeration of Hydrogen Sulphide producing Bacteria/Shewanella Putrefaciens
	NLRC-SOP-MML-106	Enumeration of Hydrogen Sulphide producing Bacteria/Shewanella Putrefaciens

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	NLRC-SOP-MML-134	Detection of Listeria Spp. & Listeria Monocytogenes by Lateral Flow kit Method
	NLRC-SOP-MML-131	Enumeration of Alicyclobacillus Spp.
	NLRC-SOP-MML-104	Enumeration of Acetic Acid Bacteria
Toilet Soap	EAS 766	Detection of Antibacterial Activity in solid toilet soap
Organic fertilizers	GSO 556	Detection of coliform group, pathological colon bacteria and salmonella
Food & Food Products	EN 15111	Foodstuffs - Determination of trace elements - Determination of iodine by ICP-MS (inductively coupled plasma mass spectrometry)
Leather/Footwear/outsole/Leather accessories/ Garments/Leather goods	ISO 2589	Leather – Physical and mechanical tests- Determination of Thickness
Leather/Footwear/outsole/Leather accessories/ Garments/Leather goods (cont'd.)	ASTM D1813-13	Standard test method for Measuring Thickness of Leather Test Specimens
	ISO 3376	Leather -Physical and Mechanical tests- Determination of 12625 strength and percentage elongation
	ISO 11640	Leather – Test for color fastness – color fastness to cycles of to-and-fro rubbing
	ISO 3377-1	Leather – Physical and mechanical tests- Determination of tear load Part 1: Single edge tear
Footwear/ shoes/ boots/ sandals/ slippers	ISO 17700:2019	Footwear – Test methods for Upper components and in socks- color fastness to rubbing and bleeding Inclusion – Method A
Footwear/outsole	ASTM D1052-09	Standard Test Method for Measuring Rubber Deterioration- Cut Growth Using Ross Flexing Apparatus

TL-1167

**NATIONAL LABORATORY & RESEARCH CENTER**

Effective Date December 11, 2025

Page 84 of 86

IAS/TL/100-1



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	ISO 48-4	Rubber, Vulcanized or thermoplastic- Determination of hardness – Part 4: Indentation hardness by durometer method (shore hardness) Shore A & Shore D
	ISO 9407	Footwear sizing- Mondopoint system of sizing and marking
	BS 5131: SECTION 2.1	Method of test for Footwear and footwear materials Part 2. Soling Section 2.1 Ross flexing Method for cut growth resistance of Soling materials
	ISO 2781	Rubber, vulcanized or thermoplastic – Determination of density Inclusion – Method A
Paper/ Paperboard/Containerboard/Carton/Related Materials	ISO 535	Paper and board – Determination of water absorptiveness- Cobb Method
	ISO 1974	Paper – Determination of tearing resistance – Elmendorf Method
Shoe, Footwear, midsole-outsole	ISO 17708	Footwear – Test methods for whole shoe- Upper sole adhesion
Textile, garments, accessories, Toys, Decorative and Functional items	16 CFR 1500.53	Test Method for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age
Plastic package	GSO 1863	Gulf Technical Regulation Food Packages – Part 2 : Plastic package – General requirement – Determination of Drop Impact Resistance Inclusion – 4.7
Leather/Footwear/Leather accessories/Garments/Leather goods	ISO 5402-1	Leather- Determination of flex resistance Part 1 – Flexometer method
	ISO 14268	Leather – Physical and mechanical tests- Determination of water vapour permeability

TL-1167

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Effective Date December 11, 2025

Page 85 of 86

IAS/TL/100-1



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		Inclusion – Method A – Standard Test Method
Wet wipes/Tissue paper/Facial tissue paper/Paper and paper bags	GSO 458	Wrapping Paper and Paper Bags Inclusion – Dimension of Wrapping paper (clause .4)
	GSO 575	Facial Tissue – Paper Inclusion – Measurement of Dimensions (clause 6.2.2.1)

