



Accreditation Scope

National Laboratory and Research Center, NAL 074

Testing Laboratory, (ISO/IEC 17025:2017)

Freezone II, Fujairah UAE , Fujairah, United Arab Emirates

Issue Date: 31/07/2026

Expiry Date: 20/07/2029

Issue No: 5

Testing Field	Materials/ Products Tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical	Cigarette	Carbon Monoxide Yield , Puff Number/Count	ISO 8454:2024 ed.4	P
Chemical	Cigarette	Nicotine yield	ISO 10315:2021 ed.4	P
Chemical	Cigarette	Tar yield , Total Particular Matter yield	ISO 4387:2019 ed.4	P
Chemical	cigarette	Draw resistance of cigarettes withfilter (PD Open & Close)	ISO 6565:2015 ed.5	P
Chemical	cigarette	Apparent density of the cigarettes	NLRC-SOP-CL-004,Rev. 2, dated 26/11/2016	P
Chemical	cigarette	Length of tobacco column for filter-tipped cigarettes	ISO 4387:2019 ed.4	P
Chemical	cigarette	Circumference of the cigarettes	ISO 2971:2013 ed.4	P
Chemical	cigarette	Loss of tobacco from cigarettes end for filter tipped cigarettes on wet or dry weight	ISO 3550-1:1997 ed.1	p
Chemical	cigarette	Basic weight of wrapped paper of the cigarettes	NLRC-SOP-CL-015,Rev. 2, dated 26/11/2016	P
Chemical	cigarette	Determination of ventilation (Tip,Envelope, Total)	ISO 9512:2019, ed.3	P
Chemical	Cigarette	Weight of the cigarette by analytical balance	NLRC-SOP-CL-023,Rev. 2, dated 26/11/2016	P

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Chemical	cigarette	Weight of the cigarette using Quantum Neo Hardness (Middle Point) , Diameter of cigarettes, Circumference of the Cigarettes, Softness of the cigarettes , Firmness of the Cigarettes, Softness of the cigarettes , Firmness of the Cigarettes , Depressed diameter of the Cigarettes ,Depression of the Cigarettes , Point of contact diameter of the Cigarettes.	NLRC-SOP-CL-005, Rev. 4, dated 16/08/2023	P
Chemical	Tobacco & Tobacco Product (Cigarette/Molasses/Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products	Moisture content	NLRC-SOP-CL-006,Rev. 4, dated 16/08/2023 based on AOAC 966.02:1968 & Coresta Method N° 76:01-07-2017	P
Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products	Total ash content on wet or dry weight	ISO 1575:1987 ed.3	P
Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe , Heated Tobacco Products	Fine tobacco content passing through 425µm sieve on wet or dry weight	NLRC-SOP-CL-009,Rev. 3, dated 13/07/2023	P

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Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products,Nicotine pouches , nicotine-containing products and its emission yield and consistency	Nicotine content in wet or dry weight	WHO SOP 04:2014/ NLRC-SOP-CL-022, Rev.8 dated 26/04/2025	P
Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products	Determination of Nicotine in Tobacco Products and Electronic Nicotine Products BY UHPLC & LC-MS/MS	NLRC-SOP-CL-057 Rev 3, dated 10/04/2024	P
Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe,Heated Tobacco Products & Electronic Nicotine Products	Visual test	NLRC-SOP-CL-014,Rev. 4, dated 13/07/2023	P
Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe Heated Tobacco Products	Determination of acid insoluble ash on wet or dry weight	ISO 1577:1987 ed.2	P
Chemical	Tobacco and Tobacco Product (Cigarette /Molasses /Dokha/ Tobacco Pipe)	Silicated residues insoluble in HCl (Sand content) on wet or dry weight	ISO 2817:1999 ed.2	P
Chemical	Tobacco and Tobacco Product (Cigarette /Molasses /Dokha/ Tobacco Pipe)"	Total Nitrogen content on wet or dry weight	NLRC-SOP-CL-027,Rev. 5, dated 09/04/2017 based on AOAC 959.04:1964	P

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Chemical	Tobacco and Tobacco Product (Cigarette /Molasses /Dokha/ Tobacco Pipe)"	Tobacco products sieve analysis passing through 600µm on wet or dry weight	NLRC-SOP-CL-024,Rev. 2, dated 26/11/2016	P
Chemical	Tobacco and Tobacco products,(Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products)	Determination of Herbic acid pesticides -Dicamba , -2.4-D , -2.4,5-T	NLRC-SOP-PRL- 004, Rev. 7, dated 13/07/2023 Based on AOAC International, Volume98, Number 2: 2015 & UCT (DCN-311110-287:2013)	P
Chemical	Tobacco and Tobacco products,(Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products)	Essential oil extract content on wet or dry weight	NLRC-SOP-CL-029,Rev. 4, dated 13/07/2023	P
Chemical	Tobacco and Tobacco products,(Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products)	Menthol Content	NLRC-SOP-CL-036,Rev. 5, dated 25/10/2024 based on ISO 13110 - 2012 & AOAC 968.03:1970	P
Chemical	Tobacco and Tobacco products , (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products , Electronic Nicotine Products & Nicotine pouches) and it emmissions	Nitrosamines (TSNAs) 1.N-Nitrosornicotine (NNN) 2.N-Nitrosornicotine ketone (NNK) 3. N-Nitrosoanatabine (NAT) 4. N-Nitrosoanabasine (NAB)	NLRC- SOP-CL-037, Rev. 6, dated 18/04/2025 based on ISO 19290:2016 & Coresta Recommended Method N°72: 2017	P

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Chemical	Tobacco and Tobacco products, Home care products, Food, Beverage, Agricultural Products, Fertilizer, and Cosmetics	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), Antimony (Sb), Iron (Fe), Tin (Sn)	NLRC- SOP-AL- 001, Rev. 6, dated 26/06/2026	P
Chemical	Food, Beverage, Tobacco products and Agricultural Products	Detection of Aflatoxin-G1, G2, B1, B2, M1 and Ochratoxin	NLRC- SOP-AL-004, Rev. 2, dated 22/6/2020 based on AOAC 999.07:2008 & LC Tech Application Note and Agilent Application Note"	P
Chemical	Cosmetics and Personal Care Products, & Edible Oil	Determination of Peroxide Value	NLRC-SOP-AL-008, Rev. 3, dated 22/06/2026 based on ISO 3960:2017 and ISO 27107:2008	P
Chemical	Cosmetics and Personal Care Products, & Edible Oil	Determination of Hydrogen Peroxide Content	NLRC- SOP-AL-011, Rev. 2,dated 07/07/2019, based on ISO 3961:2013 and AOAC Official Method 993.20:1996	P
Chemical	Detergent and washing powder	Determination of Active Oxygen Content	NLRC- SOP-AL-010, Rev. 1, dated 30/01/2018 based on ASTM D 2180 – 89 (Reapproved 2008) & UAE.GSO ISO 4321:1994	P
Chemical	Personal Care Product, Detergents and Tobacco Products, Food products	Determination of Chloride Content by Potentiometric Titration	NLRC-SOP-AL-012, Rev. 4 dated 15/08/2023 based on AOAC 963.05:1946, ISO 457 ed.2-1983 and ISO 4323, ed.1 -1977	P
Chemical	Edible Oil, Cosmetics and Personal Care Product	Determination of Acid number and Free Fatty Acid content by Potentiometric Titration	NLRC- SOP-AL-013,Rev.3 dated 07/04/2020 based on ISO 660:2009	P
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of Total Coliform	APHA 9222B, 24th Edition (2023)	P

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Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of Fecal Coliform	APHA 9222D, 24th Edition (2023)	P
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of E. coli	APHA 9222 B & H, 24th Edition (2023)	P
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of Pseudomonas aeruginosa	ISO 16266:2006	P
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Heterotrophic Plate Count	APHA 9215B, 24th Edition (2023)	p
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of Fecal Streptococcus	APHA 9230 C, 24th Edition (2023)	p
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of Total coliform, Fecal coliform & E. coli	APHA 9221B, APHA 9221E & APHA 9221F, 24th Edition (2023)	P
Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Detection & Enumeration of Legionella	ISO 11731:2017	p

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Microbiology	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Enumeration of Yeast & Mould	APHA 9610 D, 24th Edition (2023)	p
Microbiology	Food & Food Products	Total Coliform, Fecal Coliform, E. coli (MPN method)	CMMEF 9.71; 9.81 & 9.91:2015, 5th Edition	p
Microbiology	Food & Food Products	Enumeration of Bacillus cereus	US FDA BAM Chapter 14 October 2020	p
Microbiology	Food & Food Products	Detection of Listeria Spp.	Reveal test kit (997.03):2009 Based on AOAC official method (Neogen)	p
Microbiology	Food & Food Products	Detection of E. coli O157: H7	Reveal test kit (No.2000.14) Based on AOAC official method (Neogen):2008	p
Microbiology	Cosmetics	Enumeration of Yeast & Mould	ISO 16212:2017	P
Microbiology	Cosmetics	Detection of Pseudomonas aeruginosa	ISO 22717:2015	P
Microbiology	Surface swab & Hand Swab	Detection of Listeria Spp	Reveal test kit Based on AOAC official method (997.03) (Neogen): 2016	p
Microbiology	Surface swab & Hand Swab	Detection of E. coli O157: H7	Reveal test kit Based on AOAC official method (No.2000.14) (Neogen) :2016	P
Microbiology & Molecular	Food, Cosmetics & Agricultural Products, Pharmaceutical & Personal Care Products	Pork Trace Detection	NLRC- SOP-MML-001, Rev. 4, dated 18/12/2023	p
Microbiology & Molecular	Food, Cosmetics & Agricultural Products, Pharmaceutical & Personal Care Products	Determination of Porcine Gelatin in food, cosmetics and pharmaceutical products by LC-MS/MS	NLRC-SOP- MML-009,Rev. 1 Datedd 04/12/2018	p
Microbiology & Molecular	Food, Cosmetics & Agricultural Products, Pharmaceutical & Personal Care Products	Screening of regulatory GMO markers in food based on Real time Polymerase Chain reaction	NLRC- SOP-MML-070, Rev. 2 Datedd 30/11/2024	p

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Tobacco and Tobacco products & nicotine containing products and related products in retail packaging	Tobacco and Tobacco products & nicotine containing products and related products in retail packaging	Sampling of products in retail packaging	NLRC-WI-12,Rev.2, dated 18/06/2019	S
Chemical	Tobacco & Tobacco Products	Determination of Tobacco Cut Width Using Optical Measurement	NLRC- SOP-CL-038, Rev.1, dated 01/04/2018 based on ISO 20193:2012 ed.1	p
Chemical	Tobacco, Tobacco Products, Heated Tobacco Products & Electronic Nicotine Products	Determination of Humectants Content in Tobacco And Tobacco Products By Gas Chromatography 1.Glycerol 2.Propylene Glycol 3.Triethylene Glycol	NLRC-SOP-CL-041 ,Rev.6, dated 25/10/2024 based on WHO TobLabNet Official Method SOP 06 June 2016 and Coresta Method N° 60, June 2019/ Coresta Method N° 84, October 2021	p
Chemical	Tobacco, Tobacco Products, (Heated Tobacco Products & Electronic Nicotine Products) and its emission yield and consistency	Chemical Composition and Impurities Analysis by Gas Chromatography	NLRC-SOP-CL-051, Rev.3, dated 25/10/2024	p
Chemical	Tobacco & Tobacco product	Determination of Sorbitol Content in Tobacco & Tobacco Products By UHPLC-MS/MS	NLRC-SOP-AL- 082, Rev.2,dated 07/07/2019	p
Chemical	Tobacco product (Fine paper-Cigarette paper,Plug wrap paper,Tipping paper)	Determination of The AirPermeability on Fine Paper(Cigarettes Paper, Plug Wrap Paper and Tipping Paper)	NLRC- SOP-CL-043, Rev.2, dated 17/08/2023 based on ISO 2965: 2019 ed.4 and CORESTA Method N°40,01-10-1994	p
Chemical	Tobacco ,Tobacco product, Nicotine Pouches & nicotine-containing products	Determination of PH of Tobacco and Tobacco Products	NLRC- SOP-CL-039, Rev. 4,dated 20/04/2025 based on CORESTA Method No. 69, July 2017	p

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Chemical	Tobacco product, Electronic nicotine Products & Heated Tobacco Products	Determination of Artificial Sweeteners and Preservatives In Tobacco Products & E - Liquid by UHPLC MS/MS 1.Benzoic Acid 2.Sorbic Acid 3.Acesulfame K 4.Aspartame 5.Saccharin 6.Cyclamic Acid	NLRC-SOP-CL-048, Rev.3, dated 22/04/2025	p
Chemical	Tobacco product (Molasses)	Estimation of Tobacco Percentage in Molasses Products	NLRC-SOP-CL-060, Rev.1, dated 03/11/2020	p
Chemical	Perfume and Perfumery Products	Visual Inspection and Turbidity Test for Perfume and Perfumery Products	NLRC-SOP-AL-014, Rev.2 ,dated 09/01/2020 based on UAE.S GSO 1047	p
Chemical	Cosmetics, Detergent and Personal Care Product	Determination of 1,4-Dioxane in Cosmetics, Detergent and Personal Care Products By using GC-MS/MS	NLRC-SOP-AL-015, Rev.2, dated 24/08/2023	p
Chemical	Perfume and perfumery product,alcoholic and non-alcoholic beverage, food, beverage and cosmetics, personal care product, detergent and disinfectant solutions, and tobacco products & Electronic nicotine Products (e- liquid (Vape))	Determination Of Alcohol Content (Methanol, Ethanol And 1-Propanol) By Gas Chromatography – FID	NLRC-SOP-AL-016, Rev. 2,dated 30/11/2024	p
Chemical	Cosmetics, personal care, detergents, perfumes, food and beverages	Determination of Density, Specific Gravity & Brix Content by Using Mettler Toledo Density Meter Dm40	NLRC-SOP-AL-021, Rev.1, dated 01/05/2019 based on ASTM D 4052 – 96 (Reapproved 2002) and GSO 802 andUAE.S GSO 1209.	p

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Chemical	Cosmetics, Personal care, Detergent, Soap and Disinfectants, Beverage & Food	Determination of PH Value by Using T9 Auto Titrator with pH Electrode	NLRC-SOP-AL- 020, Rev. 3, dated 20/12/2024 based on UAE.S/GSO 1153 :2011,UAE.S GSO 1202 :2002,UAE.S GSO 2239 :2012, UAE.S GSO ISO 4316:1994. UAE.S GSO691 :1997, UAE.S GSO 427 :2009, UAE.S/GSO 2064 :2010, UAE.S GSO 395 :2011, UAE.S GSO 2062 :2010, UAE.S GSO 1155 :2002, UAE.S GSO 1098 :2002, UAE.S/GSO 2060 :2010, UAE.S GSO 1196 :2002, UAE.S GSO 875 :1997, UAE.S GSO 1218 :2002, UAE. GSO 2017:2010 UAE.S GSO 1947 :2009, UAE.S GSO 2242 :2012, UAE.S/GSO 1949 :2010, UAE.S/GSO 2018 :2010	p
Chemical	Beverage products and carbonated water	Determination of Carbon Dioxide Content in Beverage by Potentiometric Titration	NLRC-SOP-AL-038, Rev. 1,dated 01/05/2019 based on AOAC Official Method 988.07 and Application Note: M011, Mettler Toledo	P
Chemical	Cosmetics, Personal care, Household care- detergent products	Determination of Free Formaldehyde Content in Cosmetics, Personal Care and Detergent Products by UsingUHPLC-DAD	NLRC-SOP-AL-039 ,Rev.2, dated 13/07/2023	p
Chemical	Cosmetics, personal care and detergents products	Determination of Isothiazolinone Biocide in Cosmetic, Personal Care and Detergent Product by Using UHPLC-MS/MS 1.MIT 2.CMIT	NLRC-SOP-AL-042, Rev.1 dated 01/05/2019	p
Chemical	Perfumes and perfumery products and denatured alcohol product	Determination of Alcohol Denaturant in Perfumes and Perfumery Products by Using UHPLC-MS/MS 1.Denatonium Benzoate (Bitrex) 2. Diethyl Phthalate 3. Quassin (Mixture of Quassin, Isoquassin and Neoquassin) 4. Sucrose Octaacetate (Octa-O-Acetyl D-(+)-Sucrose)	NLRC-SOP-AL-052, Rev. 1, dated 01/05/2019	P

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Chemical	Cosmetics, Personal care, Detergent, Tobacco, Food&Beverage	Determination of Water Content in Cosmetics, Personal Care, Detergent, Tobacco, Food&Beverage Products by KF Volumetric Titration	NLRC -SOP-AL-025, Rev. 2, dated 07/04/2025	p
Chemical	All beverage, food products, Electronic nicotine Products& Heated Tobacco Products	Determination of Colorants Content in Various Matrices by Using UHPLC- DAD 1.Tartrazine (E102) 2.New Red 3.Amaranth (E123) 4.Indigo Carmine (Indigotine) (E132) 5.Ponceau 4RC (E124) 6.Sunset Yellow (E110) 7.Brilliant Black BN (E151) 8.Allura Red AC (E129) 9.Acid Red 2G (Acid Red 1) (E128) 10.Green S (Acid green 50) (E142) 11.Carmoisine (Azorubin) (E122) 12.Quinoline Yellow (E104) 13.Fast Green FCF (E143) 14.Brilliant Blue FCF (E133) 15.Erythrosin B disodium (E127) 16.Patent Blue V (E131)	NLRC-SOP-AL-084, Rev. 2 dated 13/07/2023	p
Chemical	Beverage, Food, Tobacco products, Electronic nicotine Products & Heated Tobacco Products	Determination of Total Sugar Content, Added Sugar Content, Natural Sugar and Glycerol Content in Beverage, Food and Tobacco Products by Using UHPLC-RID 1.Glycerol 2.Fructose 3.Glucose 4.Sucrose 5.Maltose 6.Lactose	NLRC-SOP-AL-077, Rev.4 ,dated 20/12/2024	p

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Chemical	Beverage products, Cigarette, Tobacco products, Electronic nicotine Products & Heated Tobacco Products	Determination of Water-Soluble Vitamins in Beverage Product, Tobacco Products and Electronic Nicotine Product by Using UHPLC-MS/MS 1. Thiamine (Vitamin B1) 2.Riboflavin (Vitamin B2) 3.Niacin (Vitamin B3) 4.Niacinamide (Nicotinamide) (Vitamin B3) 5.Calcium-d-Pantothenate (Vitamin B5) 6.Pyridoxine (Vitamin B6) 7.Biotin (Vitamin B7) 8.Folic Acid (Vitamin B9)	NLRC-SOP-AL-078, Rev.2 ,dated 13/07/2023	p
Chemical	Beverage and food products, cosmetics products, personal care products, detergent products, perfume products, Heated Tobacco Products & Electronic Nicotine Products	Determination of Preservatives and Biocides In Various Matrices By Using UHPLC-DAD 1.4-Hydroxy Benzoic Acid 2.Methylisothiazolinone (MIT) 3.Salicylic Acid 4.Benzoic Acid 5.Methylchloroisothiazolinone (CMIT) 6.Sorbic Acid 7.2-phenoxy ethanol 8.Dehydroxy acetic acid 9.Methyl paraben 10.Ethyl paraben 11.Propyl paraben 12.Butyl paraben	NLRC-SOP-AL-081, Rev.3, dated 13/07/2023	P
Chemical	Beverage, food products	Determination of Food Additives and Artificial Sweeteners in Beverage And Food Products By Using UHPLC-DAD 1.Benzoic Acid 2.Sorbic Acid 3.Caffeine 4.Ascorbic Acid 5.Citric Acid 6.Acesulfame K 7.Saccharine 8.Aspartame 9.Cyclamic acid	NLRC-SOP-AL-083, Rev.1, dated 01/05/2019	P
Chemical	Cosmetics and personal care products	Determination of Urea Content in Cosmetics and Personal Care Products by Using UHPLC-DAD	NLRC-SOP-AL-062, Rev.1, dated 01/05/2019	p

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Chemical	Tobacco and tobacco products	Determination of Free-Base Nicotine Content in Tobacco and Tobacco Products	NLRC-SOP-CL-040, Rev.1 ,dated 16/09/2019	p
Chemical	Tobacco and tobacco product	Determination of Pesticide Residues in Tobacco and Tobacco Products Using Quechers Method by Using GC-MS/MS 1. 1.BHC-Alpha 2. Hexachlorobenzene 3. BHC-Beta 4. BHC-Gamma 5. BHC-Delta 6. Formothion 7. Heptachlor 8. Aldrin 9. Heptachlor exo-epoxide-Isomer B 10. Heptachlor-endo-epoxide-Isomer A 11. Chlordane-trans (Gamma) 12. O, P-DDE 13. Endosulfan-Alpha 14. Chlordane-cis 15. Dieldrin 16. P, P-DDE 17. O,P-TDE or O,P-DDD 18. Endrin 19. Endosulfan-Beta 20. P,P-DDD or P,P-TDE 21. O,P-DDT 22. P,P-DDT 23. Permethrin-Cis 24. Permethrin-Trans 25. Toxaphene	NLRC-SOP-PRL-012, Rev.1, dated 01/05/2019	p
Chemical	Water	Determination of Gross Alpha, Beta-Activity By Radioactivity Counter (Qualitative) 1. Gross Alpha (Qualitative) 2. Gross Beta (Qualitative)	NLRC-SOP-AL-055, Rev.4, dated 25/06/2026	p
Chemical	Honey	Determination of Total Ash Content for Honey	NLRC-SOP-AL--087, Rev.1 ,dated 01/06/2019	p
Chemical	Water	Determination of pH In Water Using pH Meter	NLRC-SOP-AL-045, Rev.3, dated 29/11/2023 based APHA method4500-H+ B. potentiometric pH determination of water, 24th edition (2023)	p
Chemical	Water	Determination of Color of Water By Using UV-Visible Spectrophotometer	NLRC-SOP-AL-044, Rev.3,dated 28/11/2023 2120 C Spectrophotometric-Single wavelength method(Proposed), APHA 24th edition (2023)	p

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Accreditation Scope

National Laboratory and Research Center, NAL 074

Testing Laboratory, (ISO/IEC 17025:2017)

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Chemical	Water	Determination of Odour & Taste In Drinking Water	NLRC-SOP-AL-075, Rev.1, dated 01/05/2019 based on APHA 2150 B & 2160 B, APHA 24th edition (2023)	p
Chemical	Water	Determination of Total Dissolved Solids (Dried At 180 oC)	NLRC-SOP-AL-047, Rev.4, dated 06/12/2025 based on APHA METHOD 2540C.TOTAL DISSOLVED SOLIDS AT180°C (Gravimetric dried), APHA 24th edition (2023)	P
Chemical	Water	Determination of Total Hardness (mg/L As CO3) In Water By EDTA Titrimetric Method	NLRC-SOP-AL-041, Rev.3, dated 27/11/2023 based on APHA 2340 C 23rd Edition, GSO 641/1996 and IS 3025(Part 21): 2009 (Titration), APHA 24th edition (2023)	p
Chemical	Water	Determination of Alkalinity (As mg/L CaCO3) In Water by Using Auto Titrator	NLRC-SOP-AL-040, Rev.2, dated 01/12/2023 based on APHA, 2320 B, EPA 310.1 and Application Note: M011 Mettler Toledo, APHA 24th edition (2023)	p
Chemical	Water	Determination of Turbidity of Water By Using Turbidimeter	NLRC-SOP-AL-057, Rev.4, dated 24/06/2026 based on APHA,2130 B(Turbidimeter), APHA 24th edition (2023)	p
Chemical	Water	Determination of Specific Conductivity of Water by Using Conductivity Meter	NLRC-SOP-AL-059, Rev.3, dated 28/11/2023 based on APHA, 2510 B. Conductivity Laboratory Method (Conductivity meter), APHA 24th edition (2023)	p
Chemical	water	Determination of Total Solids in Water (Dried At 103-105°C)	NLRC-SOP-AL-046, Rev.2, dated 29/11/2023 based on APHA METHOD 2540 B TOTAL SOLIDS AT 103-105 °C(Gravimetric dried), APHA 24th edition (2023)	p
Chemical	Water	Determination of Total Suspended Solids in Water (Dried At 103-105°C)	NLRC-SOP-AL-048, Rev.2, dated 29/11/2023 based on APHA 2540 D. TOTAL SUSPENDED SOLIDS AT 103-105 °C (Gravimetric dried), APHA 24th edition (2023)	P
Chemical	Water	Determination of Carbonates and Bicarbonates	NLRC-SOP-AL-043, Rev.1, dated 01/05/2019 based on AOAC OFFICIAL METHOD920.194 CARBONATES AND BICARBONATES(Titration)	P

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Chemical	Water	Determination of Inorganic Anions In Water By Ion Chromatography 1. Nitrate (NO ₃ ⁻) 2. Nitrite(asNo ₂ ⁻) 3. Fluoride 4. Chlorate 5. Phosphate 6. Chloride 7. Sulfate 8. Bromide 9. Bromate 10. Chlorite	NLRC-SOP-AL-058, Rev.5, dated 26/06/2026 based on EPA 300.1, Inorganic Anions in water by Ion Chromatography	P
Chemical	Water	Determination of Pesticide Residues in Water By Liquid-Liquid Extraction Using GasChromatography/Mass Spectrometry (GC-MS/MS 1. Alachlor 2. Aldrin and dieldrin 3. Atrazine 4. Chlordane – Trans (Gamma) 5. Chlordane – Cis (Alpha) 6. Chlorpyrifos 7. Endrin 8. Chlorotoluron 9. Isoproturon 10. Lindane 11. Methoxychlor 12. Metolachlor 13. Molinate 14. Pyriproxyfen 15. Pendimethalin 16. Simazine 17. Terbutylazine 18. Trifluralin 19. DDT Metabolites	NLRC-SOP-PRL-010, Rev.1, dated 01/05/2019 based on Organochlorine pesticides APHA 6630 B and EPA 525.2	P
Chemical	Water	Multi-Residue Pesticide Analysis In Water By Multiple Reaction Monitoring (MRM) using TRIPLE QUADRUPOLE LC-MS/MS 1. Aldicarb 2. Carbofuran&3-Hydroxy Carbofuran 3. Cyanazine 4. Dimethoate 5. Hydroxy atrazine 6. Molinate 7. 2,4 –Dichlorophenoxy acetic acid 8. 2,4- Dichlorophenoxybutyric acid. 9. Dichloroprop 10. MCPA 11. Mecoprop 12. 2,4,5-T 13. Dicamba 14. Fenoprop	NLRC-SOP-PRL- 011, Rev.2, dated 06/07/2026 pesticide residues in water	P
Chemical	Water	Determination of Cyanide in Water and Waste Water by Using UV-VISIBLE SPECTROPHOTOMETER	NLRC-SOP-AL-092, Rev.2, dated 18/08/2023	P

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Chemical	Water	Determination Of Chlorine (Free & Total) & Chloramine (Mono) In Water by Using UV-VISIBLESPECTROPHOTOMETER 1. Chlorine 2. Monochloramine	NLRC-SOP-AL-053, Rev.2, dated 27/11/2023	P
Chemical	Water	Determination of Haloacetic Acids (HAA's) In Water by UsingTRIPLE QUADRUPOLE LC- MS/MS. 1. Di chloroacetate 2. Monochloroacetate 3. Trichloroacetate	NLRC-SOP-AL-070, Rev.3, dated 06/07/2026	P
Chemical	Water	Determination of Chlorinated Solvents/ Haloacetoneitrile's (Han's) In Water by SOLID PHASE EXTRACTION AND GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC- MS/MS). 1. Dibromoacetoneitrile 2. Dichloroacetoneitrile	NLRC-SOP-AL-073, Rev.1, dated 01/05/2019	P
Chemical	Water	Determination of Semivolatile Organic Chemicals (Smvoc's) In Water by SOLID PHASE EXTRACTION AND GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC- MS/MS)DEHP Benzo (a) pyrene	NLRC-SOP-AL-069, Rev.1, dated 01/05/2019	P
Chemical	Water	Determination of Chlorinated Phenols in Water by Using TRIPLE QUADRUPOLE LC-MS/MS 1. 2,4,6- Trichlorophenol 2. Pentachlorophenol	NLRC-SOP-AL-071, Rev.2, dated 06/07/2026	P
Chemical	Water	Determination of EDTA & NTA In Water by Using TRIPLEQUADRUPOLE LC- MS/MS. 1. NTA (Nitriloacetic Acid) 2. EDTA	NLRC-SOP-AL-072,Rev.2, dated 06/07/2026	P

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Chemical	water	Determination Of 1,4-Dioxane In Water by Solid Phase Extraction (Spe) Using GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC-MS/MS)	NLRC-SOP-AL-060, Rev.1, dated 01/05/2019	P
Chemical	Water & Waste Water	Estimation of Trace Metals Content in Drinking Water, Waste Water And Ground Water Using Microwave Digestion By ICP-MS 1. Arsenic 2. Barium 3. Boron 4. Beryllium 5. Chromium 6. Manganese 7. Molybdenum 8. Selenium 9. Iron 10. Antimony 11. Lead 12. Nickle 13. copper 14. Zinc 15. Cobalt 16. Strontium 17. Silver 18. Vanadium 19. Thallium 20. Uranium 21. Cadmium 22. Magnesium 23. Potassium 24. Sodium 25. Calcium 26. Mercury	NLRC-SOP-AL-049, Rev.4, dated 06/07/2026 based on (APHA) -23rd EDITION METHOD (3125) and AOAC 993.14	p
Chemical	Water & Waste Water	Determination of Chemical Oxygen Demand in Water & Waste Water ByUsing PHOTOMETER	NLRC-SOP-AL-056, Rev.2, dated 01/12/2023	p
Chemical	Water & Waste Water	Determination of Total Organic Carbon (TOC) In Water &Waste Water By Using UV-VISIBLESPECTROPHOTOMETER	NLRC-SOP-AL-074, Rev.2, dated 28/11/2023	p
Chemical	HONEY PRODUCTS	DETERMINATION OF DIASTATIC ACTIVITY IN HONEY BY PHADEBASMETHOD	NLRC-SOP-AL-095, Rev.1, dated 28/11/2019	p
Chemical	Honey Products, Beverage Products, Food Products	Determination Of HMF In Beverage And Food Products By UHPLC-DAD	NLRC-SOP-AL-051, Rev.3, dated 23/08/2023 based on International Honey Commission (2009), IOSR Journal of Applied Chemistry (IOSR-JAC) e1 ISSN: 2278-5736.Volume 7, Issue 7 Ver. I. (July. 2014), PP 62-67 and Iranian Journal of Toxicology Vol 10, No 5, September-October 2016	p

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Chemical	Beverage & Food Products	Determination of Total Acidity in Beverage & Food Products by END POINT/EQUIVALENCE POINT POTENTIOMETRIC TITRATION	NLRC-SOP-AL-063, Rev.1, dated 01/05/2019 based on AOAC Official Method 935.57,950.15, 942.15 and MettlerToledo Application Notes	P
Chemical	Honey	Determination of Free Acidity and Total Acidity in Honey by POTENTIOMETRIC TITRATION	NLRC-SOP-AL-064, Rev.1, dated 01/05/2019 based on AOAC official methods 962.19	P
Chemical	Beverage Products, Food Products	Determination of Sulfur Dioxide (Sulfiting Agent) In Beverage Products By UHPLC-MS/MS	NLRC-SOP-AL-065,Rev.2 dated 27/04/2023	p
Chemical	Beverage Products	Determination Of Ascorbic Acid In Beverage Products By UHPLC-MS/MS	NLRC-SOP-AL-066, Rev.1, dated 01/05/2019	p
Chemical	Beverage Products	Determination of Cyanocobalamin (Vitamin B12) In Beverage Products By UHPLC-MS/MS	NLRC-SOP-AL-079, Rev.1, dated 01/05/2019	P
Chemical	Foods, food products, and beverages	Determination Of Nitrogen and Protein Content	NLRC-SOP-AL-122, Rev.3 dated 24/06/2026 AOAC Method	P
Chemical	Cigarette	Determination of Water in Total Particulate Matter from main stream Smoke	ISO 10362-1,2	P
Chemical	Foods, food products and beverages	Determination Of Carbohydrates and Energy	NLRC-SOP-AL-131, Rev.3, dated 27/06/2026	P
Chemical	Foods, food products and beverages	Crude Fat Determination - Soxhlet Method Based on AOAC Official Method 948.22	NLRC-SOP-AL-128, Rev.2, dated 06/05/2024	P
Chemical	Foods, food products and beverages	Determination Of Cholesterol By HPLC	NLRC-SOP-AL-121, Rev.2, dated 18/03/2025	P
Chemical	Perfumes, Oils, Beverage, and Industrial Solvents	Refractive Index Test	NLRC-SOP-AL-139, Rev.1, dated 19/12/2022	P

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Chemical	Electronic Nicotine Products, Heated Tobacco Products Household Care Products, Oral and Personal Care Products	Determination of Triclosan and Triclorocarban by UHPLC-MS/MS	NLRC-SOP-AL-099, Rev.1, dated 29/12/2019	P
Chemical	Water and Food Products	Acrylamide By Using Quechers Workflow	NLRC-SOP-AL-096 ,Rev.2, dated 06/07/2026	P
Chemical	Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap, Food, Dairy Products, Agricultural Products, Feeds and Fertilizer Products and Beverage Products	Moisture & Volatile Matter, Non-Volatile Matter and Total Solids	NLRC-SOP-AL-113, Rev.1, dated 06/10/2020	p
Chemical	Food contact materials, Water contact materials, Cosmetics contact materials & Accessories	Materials and articles in contact with foodstuffs, Plastics ,Test methods for overall migration.	IS 9845 and BS EN 1186 (1-15)	p
Chemical	Food contact materials & Accessories	Specific migration of Bisphenol- A, LC-MS-MS based on EN 13130-1,13	NLRC-SOP-AL-125, Rev.3, dated 12/07/2025	p
Chemical	Foods, food products and beverages	Determination Of Total Ash Content by Muffle Furnace	NLRC-SOP-AL-127, Rev.2, dated 06/05/2024 based on AOAC 942.05, 930.22, 900.02 & 920.108, ISO 2171:2007	p
Chemical	Water And Wastewater	Determination Of Oil and Grease in Water and Wastewater by Using Extraction Method	NLRC-SOP-AL-104, Rev.2, dated 01/12/2023	p
Chemical	Cosmetics and Personal Care Products	Determination of Selected Nitrosamines By LC-MS/MS 1. N-Nitrosodiethanol Amine (NDELA) 2. N-Nitrosodiisopropanol Amine (NDIPLA)	NLRC-SOP-AL-115, Rev.1, dated 25/03/2021	p

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Chemical	Water	Determination Of Dichloroisocyanurate By LC-MS/MS	NLRC-SOP-AL-119, Rev.2, dated 06/07/2026	P
Chemical	Tobacco Products, Heated Tobacco Products, Electronic Nicotine Products and its emissions (Aerosols)	Determination Of Selected Primary Aromatic Amines • 1-Naphthylamine (1-Aminonaphthalene) • 2-Naphthylamine (2-Aminonaphthalene) • 4-Aminobiphenyl	NLRC-SOP-CL-049, Rev.1, dated 01/06/2019	P
Chemical	Tobacco products, Heated Tobacco Products, Electronic Nicotine Products and its emissions (Aerosols)	Determination Of Selected Carbonyl Compounds in E-Liquid Products • Acetaldehyde • Acetone • Acrolein • n-Butyraldehyde (Butanal) • Crotonaldehyde • Formaldehyde • Propionaldehyde (Propanal) • 2-Butanone (Methyl Ethyl Ketone) • Acetoin(3-hydroxy-2-Butanone) • Diacetyl (2,3-Butadione) • Acetyl Propionyl (2,3-Pentadione I	NLRC-SOP-CL-052, Rev.2, dated 19/04/2023 based on Coresta RM No.74/86/96.	P

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Chemical	Tobacco Products, Heated Tobacco Products, Electronic Nicotine Products, and its emissions (Aerosols), Cosmetics and Personal Care Products, Food and Beverage products, Water.	Determination Of Polycyclic Aromatic Hydrocarbon (PAHs) By GC-MS/MS 1. Naphthalene 2. Acenaphthylene 3. Acenaphthene 4. Fluorene 5. Phenanthrene 6. Anthracene 7. Fluoranthene 8. Pyrene 9. Benzo(c)phenanthrene 10. Benz(a)anthracene 11. Chrysene 12. Benzo[b]fluoranthene 13. Dimethylbenz[a]anthracene, 7,12- 14. Benzo[k]fluoranthene 15. Benzo[j]fluoranthene 16. Benzo[e]pyrene 17. Benzo[a]pyrene 18. 3-Methylchlanthrene 19. Indeno[1,2,3-cd]pyrene 20. Dibenz[a,h]anthracene 21. Benzo[g,h,i]perylene 22. Dibenz[a]pyrene 23. Dibenz[a,i]pyrene 24. Dibenz[a,h]pyrene	NLRC-SOP-CL-053 , Rev.1, dated 03/02/2022 Coresta Recommended method NO. 91	P
Chemical	Cosmetics And Personal Care Products, Household Care Products & Soap Products	Determination of Selected Organic Compounds Content by HPLC 1. Hydroquinone 2. Resorcinol 3. Phenylenediamine Compounds	NLRC-SOP-AL-150,Rev.1, dated 15/02/2023	P
Chemical	Tobacco products, Heated Tobacco Products, Electronic Nicotine Products, and its emissions (Aerosols)	Determination Of Trace Elements Content by ICP-MS • Mercury • Arsenic • Chromium • Cadmium • Nickel • Lead • Iron • Tin	NLRC-SOP-CL-054, Rev.2, dated 06/07/2026 based on Coresta RM 98	P
Chemical	Tobacco products, Heated Tobacco Products, Electronic Nicotine Products and its emissions (Aerosols)	Determination of Dry Particulate Matter, Aerosol Condensed Mass, Aerosol Vaporized Mass, Nicotine, Nicotine Consistency, Carbon Monoxide and Nitrogen Oxides Yield	NLRC-SOP-CL-055, Rev.3, dated 23/04/2026 based on ISO 20768:2018/24199:2022/24197:2022/Coresta Recommended Method No.81,99,100,101,108,110/Afnor XP D90-300-2,3/ PAS 8850:2020	P

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Chemical	Tobacco Products, Heated Tobacco Products, Electronic Nicotine Products, and its emissions (Aerosols)	Determination Of Selected Volatile Organic Compounds 1. Benzene 2. Toluene 3. Acrylonitrile 4. 1,3-Butadiene 5. Isoprene	NLRC-SOP-CL-056, Rev.1, dated 29/12/2019/Coresta RM No. 70/ISO 21330:2018	P
Chemical	Multiple food and Beverages commodities, Cosmetics and Personal care Products.	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. Cyromazine, Methamidophos, Formetanate, Carbofuran, Methabenzthiazuron, Acephate, Pymetrozine, Aminocarb, Propamocarb, Omethoate, Dinotefuran, Aldicarb sulfoxide, Butoxycarboxim, Nitenpyram, Aldicarb sulfone, Carbendazim, Oxamyl, Flonicamid, Methomyl, Thiabendazole, Thiamethoxam, Fuberidazole, Monocrotophos, Mexacarbate, Dioxacarb, Dicrotophos, Imidacloprid, Clothianidin, Fenuron, Trichlorfon, Dimethoate, 3-Hydroxycarbofuran, Vamidothion, Mevinphos, Acetamiprid, Propoxur, Ethirimol, Cymoxanil, Thiacloprid, Pirimicarb, Aldicarb, Tricyclazole, Oxadixyl, Carbetamide, Simetryn, Thiophanate-methyl, Thidiazuron, Bendiocarb, Imazalil, Prometon, Metribuzin, Secbumeton, Terbumeton, Sulfentrazone, Pyracarbolid, Tebuthiuron, Carbaryl, Carboxin, Monolinuron, Fluometuron, Diuron, Ethiofencarb, Ametryn, Chlorotoluron, Metobromuron, Propham,	NLRC-SOP-PRL-013, Rev.1, dated 29/12/2022 based on EN 15662-2018/ AOAC 2007.01	P

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		Flutriafol, Methoprottryne, Forchlorfenuron, Isoprocab, Fenpropimorph, Isocarbophos, Isoproturon, Desmedipham, Phenmedipham, Spiroxamine, Pyrimethanil, Metalaxyl, Chlorantraniliprole, Cycluron, Prometryn, Linuron, Thiofanox, Fenobucarb, Azoxystrobin, Diethofencarb, Ethofumesate, Ethiprole, Fludioxonil, Methiocarb, Siduron, Halofenozide, Fenamidone, Furalaxyl, Acibenzolar-S-methyl, Nuarimol, Dimethomorph, Boscalid, Mandipropamid, Flutolanil, Promecarb, Paclobutrazol, Triadimenol, Mepronil, Cyproconazole, Myclobutanil, Chloroxuron, Bupirimate, Methoxyfenozide, Triadimefon, Bifenazate, Cyprodinil, Mefenacet, Mepanipyrim,		
Chemical	Water, Cosmetics, Food Contact Materials Food Packaging Materials	Determination Of Heavy Metal Migration from different types Of Plastic Food Packaging Materials into food simulants using ICP-MS • Barium (Ba) • Copper (Cu) • Zinc (Zn) • Iron (Fe) • Manganese (Mn) • Cobalt (Co) • Lead (Pb) • Cadmium (Cd) • Arsenic (As) • Chromium (Cr) • Antimony (Sb) • Nickel (Ni) • Lithium (Li) • Aluminium (Al)	EN 13130-1/ISO 6486-2, /ISO 7086-2/ISO 8391-2/ NLRC-SOP-AL-126, Rev.4, dated 26/06/2026	P

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Chemical	Food and agricultural products, Household care products, personal care Products & Cosmetics, drinking water, wastewater & Ground water, Soils and Fertilizers Tobacco & tobacco products	Determination of trace metals content by micro digestion by using ICP-MS • Iron (Fe) • Molybdenum (Mo) • Selenium (Se) • Manganese (Mn) • Antimony (Sb) • Lead (Pb) • Chromium (Cr) • Arsenic (As) • Copper (Cu) • Nickel (Ni) • Cadmium (Cd) • Zinc (Zn) • Tin (Sn) • Cobalt (Co) • Silver (Ag) • Sodium (Na) • Magnesium (Mg) • Potassium(K) • Calcium (Ca) • Mercury (Hg) • Phosphorous(P) • Palladium (Pd) • Zirconium (Zr) • Titanium (Ti) • Lithium (Li) • Aluminum (Al)	NLRC-SOP-AL-152, Rev.3 dated 26/06/2026	P
Microbiology	Water microbiology (Water- Domestic water, Recreational water, Potable water, bottled drinking water, Swimming pool water, wastewater, Sea Water)	Enumeration of Sulphite Reducing Clostridia by Membrane Filtration Method	Standing Committee of Analysts-The Microbiology of Drinking Water (2021) – Part 6 – Methods for the isolation and enumeration of sulphite-reducing clostridia and Clostridium perfringens by membrane filtration	P
Microbiology	Water microbiology (Water- Domestic water, Recreational water, Potable water, bottled drinking water, Swimming pool water, wastewater, Sea Water)	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-093, Rev.1 dated 18/09/2022	p
Chemical	Tobacco and Tobacco Product (Cigarette /Molasses /Dokha/ Tobacco Pipe)"	Sorbic acid and Benzoic acid on wet or dry weight	NLRC-SOP-CL-025,Rev. 3, dated 15/3/2017	P

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Accreditation Scope

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Chemical	Tobacco products , Agricultural Products, Fertilizer, Water, Feed, Food and Beverage Products	Radio-nucleide Activity Test Cesium(134Cs), Cesium (137Cs), Potassium (40K)	NLRC-SOP-CL-034, Rev. 5, dated 16/08/2023, based on Gamma Activity Monitor user manual and Procedure	P
Chemical	Cosmetics and Personal Care Products, Heated Tobacco Products & Electronic Nicotine Products	Allergens, 1. Amyl cinnamyl alcohol (CAS no. 101.85.9) 2. Amyl cinnamal (CAS no. 122.40.7) 3. Anisyl alcohol(CAS no. 105.13.5) 4. Benzyl Benzoate (CAS no. 120.51.4) 5. Benzyl alcohol (CAS no. 100.51.6) 6. Benzyl cinnamate (CAS no. 103.41.3) 7. Benzyl salicylate (CAS no. 118.58.1) 8. Cetone alpha (Alpha- Isomethyl ionone)(CAS no 127.51.5) 9. Cinnamaldehyde (Cinnamal) (CAS no. 104.55.2) 10. Cinnamyl alcohol (CAS no. 104.54.1) 11. b- Citronellol (CAS no. 106.22.9) 12. Coumarin(CAS no. 91.64.5) 13. Citral (Niral & Geranial) (CAS no. 5392.40.5) 14. D-Limonene(CAS no. 5989.27.5) 15. Eugenol (CAS no. 97.53.0) 16. Farnesol(CAS no. 4602.84.0) 17. Geraniol(CAS no. 106.24.1) 18. Hexylcinnamaldehyde(CAS no. 101.86.0) 19. Hydroxycitronellal (CAS no. 107.75.5) 20. Isoeugenol(CAS no. 97.54.1) 21. Lilial(CAS no. 80-54-6) 22. Linalool(CAS no. 78.70.6) 23. Lyrall(CAS no. 31906-04-4) 24. Methylheptyne carbonate (CAS no. 111.12.6)	NLRC-SOP-AL-005,Rev. 5, dated 16/08/2023	P
Chemical	Cosmetics and Personal Care Products, & Edible Oil	Determination of Iodine Value	NLRC-SOP-AL-009, Rev. 2,dated 07/07/2019 based on ISO 3961:2013 and AOAC Official Method 993.20:1996	P

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Microbiology	Cosmetics	Enumeration of Aerobic Mesophilic Bacteria	ISO 21149:2017	P
Microbiology	Cosmetics	Detection of Candida albicans	ISO 18416:2015	P
Microbiology	Cosmetics	Detection of E. coli	ISO 21150:2015	P
Microbiology	Cosmetics	Detection of Staphylococcus aureus	ISO 22718:2015	P
Microbiology	Non-Sterile products	Enumeration of TAMC and TYMC in non-sterile products	NLRC-SOP-MML-071, Rev 2 dated 26/04/2025	P
Microbiology	Air and Environment	Yeast and Mould	NLRC-SOP-MML- 012, Rev.2 dated 28/07/2023	P
Microbiology	Air and Environment	Total Bacterial Count	NLRC-SOP-MML- 011, Rev.2 dated 28/07/2023	P
Microbiology	Surface swab & Hand Swab	E. coli	CMMEF 9.91:2015 5th Edition	P
Chemical	Tobacco & Tobacco products	Gravimetric and Statistical Analysis of Cigarette Parts/Components And Nicotine Yield 1. Cigarette Weight 2.Tobacco Weight 3.Non-Tobacco Mass 4.Filter Weight 5. Cigarette Paper Weight	NLRC-SOP-CL-046, Rev.1 ,dated 01/05/2019	P
Chemical	Tobacco products, Beverage, Food, Electronic nicotine Products , Heated Tobacco Products Nicotine Pouches and Nicotine-containing Products	Determination of Caffeine, Taurine, Inositol and Glucuronolactone in Beverage and Tobacco Products by UHPLC-Ms/MS	NLRC-SOP-AL-037, Rev. 3 ,dated 10/03/2025	P
Chemical	Tobacco & Tobacco Products & Electronic nicotine Products (e-liquid (Vape))	Ammonia in Tobacco & Tobacco Products & Electronic Nicotine Products by using Ion Chromatography	NLRC-SOP-CL-047,Rev.1, dated 01/05/2019	P
Chemical	Water	Microcystin-LR in Water Using Quechers Workflow	NLRC-SOP-AL-097, Rev.2, dated 06/07/2026	P

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Microbiology	Food & Food Products	Aerobic Plate Count	US FDA BAM Chapter 3, Jan 2026	P
Microbiology	Food & Food Products	Enumeration of Staphylococcus aureus	ISO 6888-1:2021/Amd 1:2023	P
Microbiology	Food & Food Products	Detection & Confirmation of Salmonella	ISO 6579-1:2017/AMD 1:2020	P
Microbiology	Food & Food Products	Detection of Vibrio parahaemolyticus	ISO 21872:2017 Amd 1:2023	P
Microbiology	Food & Food Products	Enumeration of Total coliforms	CMMEF: Chapter-9.73.	P
Microbiology	Food & Food Products	Enumeration of Yeast & Mould	CMMEF Chapter 21.5	P
Microbiology	Food & Food Products	Enumeration of Enterobacteriaceae	CMMEF Chapter 9.6	P
Microbiology	Food & Food Products	Qualitative Detection of Clostridium botulinum in food and food products by RT-PCR	NLRC-SOP-MML-089, Rev.1 dated 09/05/2022	P
Microbiology	Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	Aerobic Plate Count	US FDA BAM Chapter 3	P
Microbiology	Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	Enumeration of Staphylococcus aureus	ISO 6888-1:2021/Amd 1:2023	P
Microbiology	Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	Enumeration of Total coliforms	CMMEF: Chapter-9.73	P
Microbiology	Food, Cosmetics	Detection of Lard DNA in cosmetics & food based on Real-time Polymerase Chain Reaction (RT-PCR) Method	NLRC-SOP-MML-073, Rev.3 dated 08/05/2023	P
Microbiology	Microbiology -Sampling Sampling of Food & Food Products	Sampling of Food & Food Products	NLRC-SOP-MML-010,Rev.1 dated 12/11/2017	P

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Microbiology	Microbiology -Sampling Sampling of Swimming pool Water	Sampling of Swimming pool Water	NLRC-SOP-MML-013,Rev.1 dated 12/11/2017	P
Microbiology	Microbiology -Sampling Swab Sampling	Swab Sampling	NLRC-SOP-MML-014,Rev.2 dated 20/09/2020	P
Microbiology	Microbiology -Sampling Sampling of Potable water	Sampling of Potable water	NLRC-SOP-MML-066,Rev.1 dated 12/11/2017	P
Microbiology	Microbiology -Sampling Sampling of In-door Air	Sampling of In-door Air	NLRC-SOP-MML-011 & 012,Rev.2 dated 28- 07-2023	P
Chemical	Water & Wastewater	Determination Of Inorganic Cations by Ion Chromatography • Sodium • Ammonium • Potassium • Magnesium • Calcium	NLRC-SOP-AL-114 Rev.4 dated 26/06/2026	P
Chemical	Water & Wastewater	Determination of Biochemical Oxygen Demand in water	NLRC-SOP-AL-054,Rev.4, dated 20/06/2026	P
Chemical	Food and Beverages, Soft Drinks and Juices,Honey, Honey-based products, Sauces and Syrups	Food authenticity –Determination of Carbon isotope ratio ($\delta^{13}C$) of Sugars and Sugar alcohols by using liquid chromatography– isotope ratio mass spectrometry (LC-IRMS)	EN 17958:2024	P
Chemical	Honey, Honey-based Products	Detecting C-4 Plant Sugar susing elemental analyser– isotope ratio mass spectrometry (EA-IRMS)	AOAC 998.12	P

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Chemical	Food and Beverages, Soft Drinks and Juices, Honey, Honey-based Products, Sauces and Syrups	Food authenticity – Determination of Carbon isotope ratio ($\delta^{13}C$) of Sugars and Sugar alcohols by using liquid chromatography–isotope ratio mass spectrometry (LC-IRMS), and Determination of Carbon isotope ratio ($\delta^{13}C$) analysis of C4 sugar, $\Delta \delta^{13}C$ by using elemental analyser–isotope ratio mass spectrometry (EA-IRMS)	NLRC-SOP-AL-2261 Rev.1 dated 8/02/2026 based on EN 17958 /EN 18054 / & AOAC 998.12	P
Chemical	Nicotine products , Nicotine pouches , Tobacco & Tobacco products	Determination of Water Activity	NLRC-SOP-CL-063 Rev.2 dated 02/07/2026 based on Coresta Method N° 88	P
Chemical	E Liquids & Nicotine Pouches	Determination of selected metals in e-liquids and nicotine pouches. · Arsenic (As) · Cadmium (Cd) · Chromium (Cr) · Copper (Cu) · Iron (Fe) · Lead (Pb) · Nickel (Ni) · Silver (Ag) · Tin (Sn) · Zinc (Zn)	NLRC-SOP-CL-067, Rev.2 dated 06/07/2026 based on Coresta Method N° 98	P
Microbiology	Food & Food Products	Detection of Campylobacter Species	ISO 10272-1:2017/Amd 1:2023	P
Microbiology	Food & Food Products	Enumeration of Presumptive Sulphite Reducing Clostridia	ISO 15213-1:2023	P
Microbiology	Food & Food Products	Enumeration of Clostridium perfringens	ISO 15213-2:2023	P
Microbiology	Food & Food Products	Enumeration of E. coli (Chromogenic Plate Method)	ISO 16649-2:2001	P
Microbiology	Food & Food Products	Detection of Listeria Monocytogens	ISO 11290-1:2017/Amd 1	P
Microbiology	Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	Enumeration of E. coli (Chromogenic Plate Method)	ISO 16649-2:2001	P
END				

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