



Accreditation Scope

National Laboratory & Research Center, NAL 074 Testing Laboratory, (ISO/IEC 17025:2017)

Fujairah Free Zone, Fujairah, UAE

Issue Date: 24/10/2023

Expiry Date: 20/07/2026

Issue No: 08

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)
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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 8454:2007 ed.3 Amd.2:2019	P
		Nicotine yield	ISO 10315:2021 ed.4	
		Tar yield, Total Particular Matter yield	ISO 4387:2019 ed.4	
		Draw resistance of cigarettes with filter (PD Open & Close)	ISO 6565:2015 ed.5	
		Apparent density of the cigarettes	In house SOP-NLRC-CL-004,, Rev.2 dated: 26/11/2016	
		Length of tobacco column for filter-tipped cigarettes	ISO 4387:2019 ed.4	
		Circumference of the cigarettes	ISO 2971:2013 ed.4	
		Loss of tobacco from cigarettes end for filter tipped cigarettes on wet or dry weight	ISO 3550-1:1997 ed.1	
		Basic weight of wrapped paper of the cigarettes	In house SOP-NLRC-CL-015, Rev. 2, dated: 26/11/2016	
		Determination of ventilation (Tip, Envelope, Total)	ISO 9512:2019, ed.3	
		Weight of the cigarette by analytical balance	In house SOP-NLRC-CL-023, Rev. 2, dated: 26/11/2016	
		Weight of the cigarette using Quantum Neo	In house SOP-NLRC-CL-005, Rev. 3, dated 20/01/2018	
		Hardness (Middle Point)	In house SOP-NLRC-CL-005, Rev. 3, dated 20/01/2018	
Diameter of cigarettes	In house SOP-NLRC-CL-005, Rev. 3, dated 20/01/2018			



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Chemical		<ul style="list-style-type: none"> Softness of the cigarettes Firmness of the Cigarettes Depressed diameter of the Cigarettes Depression of the Cigarettes Point of contact diameter of the Cigarettes Circumference of the Cigarettes 	In House SOP-NLRC-CL-005, Rev. 4, dated 16/08/2023	P
	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe	Moisture content	In house SOP-NLRC-CL-006, Rev.4, Dated on 16-08-2023 based on AOAC 966.02:1968 & Coresta Method N° 76: July 2017	
	Heated Tobacco products & Electronic Nicotine products)	Total ash content on wet or dry weight	ISO 1575:1987 ed.3	
	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco products)	Fine tobacco content passing through 425µm sieve on wet or dry weight	In house SOP-NLRC-CL-009, Rev. 3, dated: 13-07-2023	



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	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco products & Electronic Nicotine products and its emission yield and consistency	Nicotine content in wet or dry weight	WHO SOP 04:2014/ In house SOP-NLRC-CL-022, Rev.6 Dated on 17/08/2023	
	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	In house SOP-NLRC-CL-057, Rev.2 dated: 13-07-2023	
		Visual test	In house SOP-NLRC-CL-014, Rev. 4 dated :13-07-2023	
	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	
	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	/Molasses /Dokha/ Tobacco Pipe)	Sorbic acid and Benzoic acid on wet or dry weight	In house SOP-NLRC-CL-025, Rev. 3, dated: 15/3/2017	P



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		Total Nitrogen content on wet or dry weight	In house SOP-NLRC-CL-027, Rev. 5, dated: 09/04/2017 based on AOAC 959.04:1964	
		Tobacco products sieve analysis passing through 600µm on wet or dry weight	In house SOP-NLRC-CL-024, Rev. 2, dated 26/11/2016	
	Tobacco and Tobacco products, Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine Products)	Determination of Herbic acid pesticide -Dicamba -2.4-D -2.4,5-T	In house SOP-NLRC-PRL-004, Rev. 7, dated 13-07-2023 Based on AOAC International, Volume 98, Number 2: 2015 & UCT (DCN-311110-287:2013)	P
		Essential oil extract content on wet or dry weight	In house SOP-NLRC-CL-029, Rev. 4, dated 13-07-2023	
		Menthol Content	In House SOP-NLRC-CL-036, Rev. 4, dated 13-07-2023 based on ISO 13110 - 2012 & AOAC 968.03:1970	
Chemical	Tobacco and Tobacco products ,Food, Agricultural Products and Cosmetics (Cigarette /Molasses /Dokha / Tobacco Pipe, Heated Tobacco Products & Electronic Nicotine	Nitrosamines (TSNAs) 1.N-Nitrosornicotine (NNN) 2.N-Nitrosornicotine ketone (NNK) 3. N-Nitrosoanatabine (NAT) 4. N-Nitrosoanabasine (NAB)	In House SOP-NLRC-CL-037, Rev. 5, dated 15-08-2023 based on ISO 19290:2016 & Coresta Recommended Method N° 72: 2017	P



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	Products) and it emmissions)			
	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)	In House SOP-NLRC AL-001, Rev. 5, dated 22/06/2020	
	Food, Beverage, Tobacco products and Agricultural Products	Detection of Aflatoxin-G ₁ , G ₂ , B ₁ , B ₂ , M ₁ and Ochratoxin	In House SOP-NLRC-AL-004, Rev. 2, dated 22/6/2020 Based on AOAC 999.07:2008 & LC Tech Application Note and Agilent Application Note	P
Chemical	Tobacco products , Agricultural Products, Fertilizer, Water, Feed, Food and Beverage Products	Radio-nucleide Activity Test Cesium(¹³⁴ Cs), Cesium (¹³⁷ Cs), Potassium (⁴⁰ K)	In House SOP-NLRC-CL-034, Rev. 5- dated on 16-08-2023, based on Gamma Activity Monitor user manual and Procedures	P
	Tobacco and Tobacco Products and Food, Fruits &	Pesticide Residues- Dithiocarbamate	In House SOP-NLRC-PRL-007, Rev. 3, dated 24/03/2018 based on Thermo Fischer Scientific	



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Chemical	Vegetables, Agricultural Products, Feeds		Inc, Application Note 10333:2012		
	Cosmetics and Personal Care Products, & Heated Tobacco Products & Electronic Nicotine Products	Allergens		In House NLRC-AL-005, Rev. 5, dated 16-08-2023 Based on International Fragrance Association (IFRA), Version 3, 12th September 2007, Bruker Application Note GC-MS 08 & GL Sciences Application Note :113	P
		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)					



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Chemical		(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. Lyril (CAS no. 31906-04-4)		
		24. Methylheptyne carbonate (CAS no. 111.12.6)		
	Cosmetics and Personal Care Products, & Edible Oil	Determination of Fluoride content	In House NLRC-AL-006, Rev. 2, dated 26/08/2023 Based on Application Note M706, M707, M102 Metler Toledo	P
		Determination of Peroxide Value	In House NLRC-AL-008, Rev. 2, dated 01/08/2020	



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			Based on ISO 3960:2017 and ISO 27107:2008	
		Determination of Iodine Value	In House NLRC-AL-009, Rev. 2, dated 07/07/2019 Based on ISO 3961:2013 and AOAC Official Method 993.20:1996	
		Determination of Hydrogen Peroxide Content	In House NLRC-AL-011, Rev. 2, dated 07/07/2019, Based on ISO 3961:2013 and AOAC Official Method 993.20:1996	
Chemical	Detergent and washing powder	Determination of Active Oxygen Content	In House NLRC-AL-010, Rev. 1, dated 30/01/2018 Based on ASTM D 2180 – 89 (Reapproved 2008) & UAE.GSO ISO 4321:1994	P
	Personal Care Product, Detergents and Tobacco Product, Canned Food, Food products	Determination of Chloride Content by Potentiometric Titration	In House NLRC-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	
	Edible Oil, Cosmetics and Personal Care Product	Determination of Acid number and Free Fatty Acid content by Potentiometric Titration	In House NLRC-AL-013, Issued 07.04.2020 (Rev.3) Based on ISO 660:2009	



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Microbiological	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Heterotrophic Plate Count	APHA 9215B, 24 th Edition:2023	P
		Enumeration of Total Coliform	APHA 9222B, 24 th Edition:2023	
		Enumeration of Fecal Coliform	APHA 9222D, 24 th Edition:2023	
		Enumeration of E. coli	APHA 9222 B & H, 24 th Edition:2023	
		Enumeration of Pseudomonas aeruginosa	ISO 16266:2006	
		Enumeration of Fecal Streptococcus	APHA 9230 C, 24 th Edition:2023	
		Enumeration of Total coliform, Fecal coliform & E. coli	APHA 9221B, APHA 9221E & APHA 9221F, 24 th Edition:2023	
		Detection & Enumeration of Legionella	ISO 11731:2017	
		Enumeration of Yeast & Mould	APHA 9610 D, 24 th Edition:2023	
		Total Coliform, Fecal Coliform, E. coli (MPN method)	CMMEF 9.71; 9.81 & 9.91: 2015, 5th Edition	P
		Enumeration of Bacillus cereus	US FDA BAM Chapter 14 Feb 2012	
		Detection of Listeria Spp	Reveal test kit (997.03):2009 Based on AOAC official method (Neogen)	
		Detection of E. coli O157	Reveal test kit (No.2000.14) Based on AOAC official method (Neogen):2008	



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		Detection of Campylobacter Species	In-house SOP-NLRC-MML-068, Rev.1 dated on 06-10-2018		
		Enumeration of Presumptive Sulphite Reducing Clostridia	In-house SOP -NLRC-MML-069, Rev.1 dated on 14-10-2018		
	Cosmetics		Enumeration of Aerobic Mesophilic Bacteria	ISO 21149:2017	P
			Enumeration of Yeast & Mould	ISO 16212:2017	
			Detection of Candida albicans	ISO 18416:2015	
			Detection of E. coli	ISO 21150:2015	
			Detection of Pseudomonas aeruginosa	ISO 22717:2015	
	Non-Sterile		Detection of Staphylococcus aureus	ISO 22718:2015	
			Enumeration of TAMC and TYMC in Non-Sterile Products	In-house SOP NLRC-MML-071 Issue 01.04.2019 (Rev 1)	
	Microbiology Testing	Air and Environment	Yeast and Mould	In-house SOP NLRC-MML-012 Issued 28-07-2023 (Rev.2)	P
Total Bacterial Count			In-house SOP NLRC-MML-011 Issued 28-07-2023 (Rev.2)		
Food & Food products		E. coli	CMMEF 9.91: 5th Edition, 2015		
		Detection of Listeria Spp	Reveal test kit Based on AOAC official method (997.03) (Neogen): 2016		



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Microbiology Testing	Food & Food products	Detection of E. coli O157	Reveal test kit Based on AOAC official method (No.2000.14) (Neogen) : 2016	P
Halal Testing	Food, Cosmetics & Agricultural Products, Pharmaceutical & Personal Care Products	Pork Trace Detection	In House SOP-NLRC-MML-001, Rev. 3, dated 07/01/2018 Based on Thermo Fisher Scientific Kit user manual 4466336, A24392 & A24399	P
		Determination of Porcine Gelatin in food, cosmetics and pharmaceutical products by LC-MS/MS	In House SOP-NLRC-MML-009 Issued 04/12/2018 (Rev. 1)	P
		Screening of regulatory GMO markers in food based on Real time Polymerase Chain reaction method	In House SOP-NLRC-MML-070 Issued 22/01/2019 (Rev. 1)	P
Sampling	Tobacco and Tobacco products & nicotine containing products in retail packaging	Sampling of products in retail packaging	NLRC-WI-12 Issued 18.06.2019 (Rev. 2)	S
Chemical	Tobacco & Tobacco Products	Determination of Tobacco Cut Width Using Optical Measurement	In-House SOP-NLRC-CL-038, Issued 01/04/2018 (Rev. 1) based on ISO 20193:2012 ed.1	P
	Tobacco, Tobacco Products	Determination of Humectants Content in Tobacco and	In-house SOP-NLRC-CL-041, Rev.5 Dated on 16-08-2023	



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	Heated Tobacco Products & Electronic Nicotine Products	Tobacco Products by Gas Chromatography 1.Glycerol 2.Propylene Glycol 3.Triethylene Glycol	based on WHO TobLabNet Official Method SOP 06 June, 2016 and CORESTA METHOD N° 60, June 2019/ Coresta Method N° 84, October 2021	
	Tobacco product and nicotine containing product	Determination of Phosphorous Content in Tobacco & Tobacco Products Using Microwave Digestion By ICP-MS	In-house SOP-NLRC-CL-042, Issued 01/05/2019 (Rev. 1) based on UAE/S CAC 193 :2013- General Standard for contaminants & toxins in food & feed	
	Tobacco, Tobacco Products, (Heated Tobacco Products & Electronic Nicotine Products) and its emission yield and consistency	Chemical Composition and Impurities Analysis of E-Liquid Products by Gas Chromatography	In-House SOP NLRC-CL-051, Rev.2 Dated on 16-08-2023	
	Tobacco & Tobacco products	Determination of Sorbitol Content in Tobacco & Tobacco Products By UHPLC-MS/MS	In-house SOP-NLRC-AL-082, Issued 07/07/2019 (Rev. 2)	
Chemical	Tobacco product (Fine Paper - Cigarettes Paper, Plug Wrap Paper and Tipping Paper)	Determination of The Air Permeability on Fine Paper (Cigarettes Paper, Plug Wrap Paper and Tipping Paper)	In-house SOP-NLRC-CL-043, Issued 17/08/2023 (Rev. 2) based on ISO 2965: 2019 ed.4 and CORESTA Method N°40, October 1994	P
	Tobacco & Tobacco products	Determination of PH of Tobacco and Tobacco Products	In-house SOP-NLRC-CL-039, Issue 22/06/2020 (Rev. 2)	



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Chemical			based on CORESTA Method No. 69, July 2017	
	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	In-house SOP-NLRC-CL-048, Issued on 13/07/2023 (Rev. 2)	
	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	In-House SOP-NLRC-CL-046, Issued 01/05/2019 (Rev. 1)	P
	Tobacco products, Beverage & Electronic nicotine Products Heated Tobacco Products	Determination of Caffeine, Taurine, Inositol and Glucuronolactone in Beverage and Tobacco Products by UHPLC-Ms/Ms	In-House SOP-NLRC-AL-037, Issued 13/07/2023 (Rev. 2)	P
	Tobacco product (Molasses)	Estimation of Tobacco Percentage in Molasses Products	In-House SOP -NLRC-CL-060, Issued 03.11.2020 (Rev. 1)	P



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	Tobacco & Tobacco Products & Electronic nicotine Products (e-liquid (Vape))	Ammonia in Tobacco & Tobacco Products & Electronic Nicotine Products by using Ion Chromatography	In-House SOP-NLRC-CL-047 - Issued 01/05/2019 (Rev. 1)	
	Perfume and Perfumery Products	Visual Inspection and Turbidity Test for Perfume and Perfumery Products	In-House SOP-NLRC-AL-014, Issued 09.01.2020 (Rev .2) based on UAE.S GSO 1047	
	Cosmetics, Detergent and Personal Care Product	Determination of 1,4-Dioxane in Cosmetics, Detergent and Personal Care Products By using GC-MS/MS	In-House SOP-NLRC-AL-015, issued 07/07/2018 (Rev. 1) Issued 24/08/2023 (Rev. 2)	
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	In-House SOP-NLRC-AL-016, Issued 07/07/2018 (Rev. 1)	P
	Perfumes and perfumery products	Determination of Denatonium Benzoate (Bitrex) in Perfumes and Perfumery Products	In-House SOP-NLRC-AL-017, Issued 07/07/2018	P



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			(Rev. 1) using UHPLC MS/MS	
	Perfumes and perfumery products	Determination of Diethyl Phthalate in Perfumes and Perfumery Products	In-House SOP-NLRC-AL-018, Issued 07/07/2018 (Rev. 1) using GC-MS/MS	
Chemical	Cosmetics, Personal care, Detergent, Soap and Disinfectants, Beverage & Food	Determination of PH Value by Using T9 Auto Titrator with pH Electrode	In-House SOP-NLRC-AL-020, Issued 16.04.2020, (Rev. 2) based on UAE.S/GSO 1153 :2011, UAE.S GSO 1202 :2002, UAE.S GSO 2239 :2012, UAE.S GSO ISO 4316:1994. UAE.S GSO 691 :1997, UAE.S GSO 427 :2009, UAE.S/GSO 2064 :2010, UAE.S GSO 395 :2011, UAE.S GSO 2062 :2010, UAE.S GSO 1155 :2002, UAE.S GSO 1098 :2002, UAE.S/GSO 2060 :2010, UAE.S GSO 1196 :2002, UAE.S GSO 875 :1997, UAE.S GSO 1218 :2002, 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
	Cosmetics, personal care, detergents,	Determination of Density, Specific Gravity & Brix Content	In-House SOP-NLRC-AL-021, Issued 01/05/2019 (Rev. 1) based on ASTM D	P



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	perfumes, food and beverages	by Using Mettler Toledo Density Meter Dm40	4052 – 96 (Reapproved 2002) and GSO 802 and UAE.S GSO 1209.	
Chemical	Lipstick salve, cosmetics & personal care	Determination of Dropping and Softening Point by Using Mettler Toledo Dropping Point System Dp70	In-House SOP-NLRC-AL-022, Issued 01.05.2019 (Rev. 1) based on UAE.S /GSO 2019:2010 and UAE.S /GSO 1896 :2009 and ASTM D 2265 - 00	P
	Cosmetics & personal care	Determination of Melting and Boiling Point by Using Mettler Toledo Mp80	In-House SOP-NLRC-AL-026, Issued 01/05/2019 (Rev. 1)	
	Beverage products and carbonated water	Determination of Carbon Dioxide Content in Beverage by Potentiometric Titration	In-House SOP-NLRC-AL-038, Issued 01/05/2019 (Rev. 1) based on AOAC Official Method 988.07 and Application Note: M011, Mettler Toledo	
	Cosmetics, personal care and Household care-detergent products	Determination of Free Formaldehyde Content in Cosmetics, Personal Care and Detergent Products by Using UHPLC-DAD	In-House SOP-NLRC-AL-039, Issued 04/05/2019 (Rev. 1) Rev.2 Issued on 13/07/2023	P
	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	In-House SOP-NLRC-AL-042, Issued 01/05/2019 (Rev 1)	



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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	Perfumes and perfumery products and denatured alcohol products	Determination of Alcohol Denaturant in Perfumes and Perfumery Products by Using UHPLC-MS/MS	In-House SOP-NLRC-AL-052 using, Issued 01/05/2019 (Rev. 1)	P
		1. Denatonium Benzoate (Bitrex)		
		2. Diethyl Phthalate		
		3. Quassin (Mixture of Quassin, Isoquassin and Neoquassin)		
Cosmetics, Personal care, Detergent, Tobacco, Food& Beverage	Determination of Water Content in Cosmetics, Personal Care, Detergent, Tobacco, Food& Beverage Products by KF Volumetric Titration	In-House SOP-NLRC-AL-025 Issued 01/05/2019 (Rev. 1)		
	All beverage, food products, and Electronic nicotine Products Heated Tobacco Products	Determination of Colorants Content in Various Matrices by Using UHPLC-DAD	In-House SOP-NLRC-AL-084, Issued 13/07/2023 (Rev. 2)	
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)				



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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)
		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)		
Chemical	Beverage, Food, Tobacco products, Electronic nicotine Products Heated Tobacco Products	Determination of Total Sugar Added Sugar Content, Natural Sugar content 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	In-House SOP-NLRC-AL-077, Issued 13/07/2023 (Rev.3)	P
	Beverage product, tobacco product and 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)	In-House SOP-NLRC-AL-078, Issued 13/07/2023 (Rev.2)	P



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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)
		3.Niacin (Vitamin B3) 4.Niacinamide (Nicotinamide) (Vitamin B3) 5.Calcium-d-Pantothenate (Vitamin B5) 6.Pyridoxine (Vitamin B6) 7.Pyridoxamine (Vitamin B6) 8.Pyridoxal (Vitamin B6) 9.Biotin (Vitamin B7) 10.Folic Acid (Vitamin B9)		
Chemical	Beverage and food products, cosmetics products, personal care products, detergent products, perfume products, Heated Tobacco Products and 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.Methylchlorisothiazolinone (CMIT) 6.Sorbic Acid 7.2-phenoxy ethanol 8.Dehydroxy acetic acid 9.Methyl paraben 10.Ethyl paraben 11.Propyl paraben 12.Butyl paraben	In-House SOP-NLRC-AL-081, Issued 13/07/2023 (Rev.3)	P
	Beverage, food products	Determination of Food Additives and Artificial Sweeteners in Beverage And	In-House SOP-NLRC-AL-083, Issued 01/05/2019 (Rev.1)	P



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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)	
		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			
Chemical	Cosmetics and personal care products	Determination of Urea Content in Cosmetics and Personal Care Products by Using UHPLC-DAD	In-House SOP-NLRC-AL-062, Issued 01/05/2019 (Rev.1)	P	
	Tobacco and tobacco product	Determination of Free-Base Nicotine Content in Tobacco and Tobacco Products	In-House SOP-NLRC-CL-040, Issued 16/09/2019 (Rev.1)		
	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	In-House SOP-NLRC-PRL-012, Issued 01/05/2019 (Rev.1)	P
			2. Hexachlorobenzene		
			3. BHC-Beta		
			4. BHC-Gamma		
		5. BHC-Delta			
		6. Formothion			
		7. Heptachlor			



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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		8. Aldrin		P
		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				
Chemical (Radioactivity)	Water	Determination of Gross Alpha, Beta-Activity by Radioactivity Counter (Qualitative) 1. Gross Alpha (Qualitative) 2. Gross Beta (Qualitative)	In-House SOP-NLRC-AL-055, Issued 25/07/2019 (Rev.3)	
Chemical	Honey	Determination of Total Ash Content for Honey	In-House SOP-NLRC-AL-087, Issued 01/06/2019 (Rev.1)	P



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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)
	Water	Determination of pH In Water Using pH Meter	In-House SOP-NLRC-AL-045, Issued 07/07/2019 (Rev.2) based APHA method 4500-H+ B. potentiometric pH determination of water	P
	Water	Determination of Color of Water By Using UV-Visible Spectrophotometer	In-House SOP-NLRC-AL-044, Issued 07/07/2019 (Rev.2) based APHA 23rd Edition.2120 C Spectrophotometric-Single wavelength method (Proposed).	P
Chemical	Water	Determination of Odour & Taste In Drinking Water	In-House SOP-NLRC-AL-075, Issued 01/05/2019 (Rev.1) based on APHA 2150 B & 2160 B.	P
	Water	Determination of Total Dissolved Solids (Dried At 180 °C)	In-House SOP-NLRC-AL-047, Issued 16/08/2023 (Rev.2) based on APHA METHOD 2540C.TOTAL DISSOLVED SOLIDS AT 180°C (Gravimetric dried),	
	Water	Determination of Total Hardness (mg/L As CO ₃) In Water by EDTA Titrimetric Method	In-House SOP-NLRC-AL-041, Issued 07/07/2019 (Rev.2) based on APHA 2340 C 23rd Edition, GSO 641/1996 and IS 3025 (Part 21): 2009 (Titration),	



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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)
	Water	Determination of Alkalinity (As mg/L CaCO ₃) In Water by Using Auto Titrator	In-House SOP-NLRC-AL-040, Issued 01/05/2019 (Rev.1) based on APHA, 2320 B, EPA 310.1 and Application Note: M011 Mettler Toledo,	
	Water	Determination of Turbidity of Water By Using Turbidimeter	In-House SOP-NLRC-AL-057, Issued 01/05/2019 (Rev.1) based on APHA,2130 B (Turbidimeter),	
	Water	Determination of Specific Conductivity of Water by Using Conductivity Meter	In-House SOP-NLRC-AL-059, Issued 07/07/2019 (Rev.2) Based on APHA, 2510 B. Conductivity Laboratory Method (Conductivity meter)	
Chemical	Water	Determination of Total Solids in Water (Dried At 103-105°C)	In-House SOP-NLRC-AL-046, Issued 01/05/2019 (Rev.1) based on APHA METHOD 2540 B TOTAL SOLIDS AT 103-105 °C (Gravimetric dried)	P
	Water	Determination of Total Suspended Solids in Water (Dried At 103-105°C)	In-House SOP-NLRC-AL-048 Issued 01/05/2019 (Rev.1) based on APHA 2540 D. TOTAL SUSPENDED SOLIDS AT 103-105 °C (Gravimetric dried)	
	Water	Determination of Carbonates and Bicarbonates	In-House SOP-NLRC-AL-043, Issued 01/05/2019	



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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)
			(Rev.1) based on AOAC OFFICIAL METHOD 920.194 CARBONATES AND BICARBONATES (Titration)	
	Water	Determination of Nitrogen Nitrate (No3 -) In Water by UV-Visible Spectrophotometer.	In-House SOP-NLRC-AL-035, Issued 01/05/2019 (Rev.1) based on APHA, 4500 NO3-. B UV-Visible Spectrophotometer	
	Water	Determination of Inorganic Anions In Water By Ion Chromatography	In-House SOP-NLRC-AL-058, Issued 07/07/2019 (Rev.2) based on EPA 300.1, Inorganic Anions in water by Ion Chromatography	
Chemical	Water	1. Nitrate (NO3 -)		
		2. Nitrite(asNo2-)		
		3. Fluoride		
		4. Chlorate		
		5. Phosphate		
		6. Chloride		
		7. Sulfate		
		8. Bromide		
		9. Bromate		
		10. Chlorite		
		Determination of Pesticide Residues in Water By Liquid-Liquid Extraction Using Gas Chromatography/Mass Spectrometry (GC-MS/MS)	In-House SOP-NLRC-PRL-010, Issued 01/05/2019 (Rev.1) based on Organochlorine pesticides APHA 6630 B and EPA 525.2	P
		1. Alachlor		
		2. Aldrin and dieldrin		
		3. Atrazine		P



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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		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						
		Water			Water	Multi-Residue Pesticide Analysis In Water By Multiple Reaction Monitoring (MRM) using TRIPLE QUADRUPOLE LC-MS/MS	In-House SOP-NLRC-PRL-011, Issued 01/05/2019 (Rev.1) pesticide residues in water	P
						1. Aldicarb		P
						2. Carbofuran&3-Hydroxy Carbofuran		
3. Cyanazine								
4. Dimethoate								
5. Hydroxy atrazine								
6. Molinate								



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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		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		
	Water	Determination of Cyanide in Water and Waste Water by Using UV-VISIBLE SPECTROPHOTOMETER	In-House SOP-NLRC-AL-092, Issued 18/08/2023 (Rev.2)	P
		Determination Of Chlorine (Free & Total) & Chloramine (Mono) In Water by Using UV-VISIBLE SPECTROPHOTOMETER	In-House SOP-NLRC-AL-053, Issued 01/05/2019 (Rev.1)	
		1. Chlorine	In-House SOP-NLRC-AL-070, Issued 01/05/2019 (Rev.1)	
		2. Monochloramine		
		Determination of Haloacetic Acids (HAA's) In Water by Using TRIPLE QUADRUPOLE LC-MS/MS.		
		1. Di chloroacetate		
2. Monochloroacetate				
3. Tricholoroacetate				
	Determination of Chlorinated Solvents / Haloacetonitrile's			



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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	Water	(Han's) In Water by SOLID PHASE EXTRACTION AND GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC-MS/MS).	In-House SOP-NLRC-AL-073, Issued 01/05/2019 (Rev.1)	P
		1. Di bromoacetonitrile		
		2. Di chloroacetonitrile	In-House SOP-NLRC-AL-069, Issued 01/05/2019 (Rev.1)	
		Determination of Semivolatile Organic Chemicals (Smvoc's) In Water by SOLID PHASE EXTRACTION AND GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC-MS/MS)		
		1. DEHP		
		2. Benzo (a) pyrene		
Chemical	Water	Determination of Chlorinated Phenols in Water by Using TRIPLE QUADRUPOLE LC-MS/MS.	In-House SOP-NLRC-AL-071, Issued 01/05/2019 (Rev.1)	P
		1. 2,4,6- Trichlorophenol		
		2. Pentachlorophenol	In-House SOP-NLRC-AL-072, Issued 01/05/2019 (Rev.1)	
		Determination of EDTA & NTA In Water by Using TRIPLE QUADRUPOLE LC-MS/MS.		
		1. NTA (Nitraloacetic Acid)		
		2. EDTA		
Determination Of 1,4-Dioxane In Water by Solid Phase Extraction (Spe) Using GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC-MS/MS)	In-House SOP-NLRC-AL-060, Issued 01/05/2019 (Rev.1)			



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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	Water & Waste Water	Estimation of Trace Metals Content in Drinking Water, Waste Water And Ground Water Using Microwave Digestion By ICP-MS	In-House SOP-NLRC-AL-049, Issued 01/05/2019 (Rev.1) based on (APHA) - 23rd EDITION METHOD (3125) and AOAC 993.14	P
		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		



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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)
		26. Mercury		
	Water & Waste Water	Determination of Chemical Oxygen Demand in Water & Waste Water By Using PHOTOMETER	In-House SOP-NLRC-AL-056, Issued 01/05/2019 (Rev.1)	
		Determination of Total Organic Carbon (TOC) In Water & Waste Water By Using UV-VISIBLE SPECTROPHOTOMETER	In-House SOP-NLRC-AL-074, Issued 01/05/2019 (Rev.1)	
	HONEY PRODUCTS	DETERMINATION OF DIASTATIC ACTIVITY IN HONEY BY PHADEBAS METHOD	In-House SOP, NLRC-AL-095, Issued 28.11.2019 (Rev. 1)	
	Honey Products, Beverage Products, Food Products	Determination Of HMF In Beverage and Food Products By UHPLC-DAD	In-House SOP-NLRC-AL-051, Issued 23-08-2023 (Rev.3) based on International Honey Commission (2009), IOSR Journal of Applied Chemistry (IOSR-JAC) e-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	
	Beverage, energy drink, fruit juice, beer and wine	Determination of Sulphur Dioxide Content in Beverage by DISTILLATION FOLLOWED BY IODOMETRIC TITRATION	In-House SOP-NLRC-AL-061, Issued 01/05/2019 (Rev.1)	



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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)
	Beverage & Food Products	Determination of Total Acidity in Beverage & Food Products by END POINT/EQUIVALENCE POINT POTENTIOMETRIC TITRATION	In-House SOP-NLRC-AL-063, Issued 01/05/2019 (Rev.1) based on AOAC Official Method 935.57, 950.15, 942.15 and Mettler Toledo Application Notes	
Chemical	Honey	Determination of Free Acidity and Total Acidity in Honey by POTENTIOMETRIC TITRATION	In-House SOP-NLRC-AL-064, Issued 01/05/2019 (Rev.1) based on AOAC official methods 962.19	P
	Beverage Products, Food Products	Determination of Sulfur Dioxide (Sulfiting Agent) In Beverage Products By UHPLC-MS/MS	In-House SOP-NLRC-AL-065, Rev.2 Dated 27-04-2023	
		Determination Of Ascorbic Acid In Beverage Products By UHPLC-MS/MS	In-House SOP-NLRC-AL-066, Issued 01/05/2019 (Rev.1)	
	Honey Products	Determination of Tutin in Honey Products By UHPLC-MS/MS	In-House SOP-NLRC-AL-067, Issued 01/05/2019 (Rev.1)	
	Beverage Products	Determination of Cyanocobalamin (Vitamin B12) In Beverage Products By UHPLC-MS/MS	In-House SOP-NLRC-AL-079, Issued 01/05/2019 (Rev.1)	
Chemical	Foods, food products, and beverages	Determination Of Nitrogen and Protein Content	In-House SOP-NLRC-AL-122, Rev.1 dated on 12-11-2022/AOAC METHOD	P
Chemical	Cigarette	Determination of Water in Total Particulate Matter from main stream Smoke	ISO 10362-1,2	P



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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	Household Care Products/ Detergent Products	Determination Of Soap Content in Detergent Products	UAE.S GSO 152 :2007	P
Chemical	Household Care Products/ Detergent Products	Determination Of Sodium Carbonate Content in Detergent Products	UAE.S GSO 152 :2007	P
Chemical	Household Care Products/ Detergent Products	Determination Of Non-Detergent Organic Matter in Detergent Products	EAS 383	P
Chemical	Foods, food products and beverages	Determination Of Carbohydrates and Energy	NLRC-SOP-AL-131, Rev.1 dated on 17-11-2022	P
Chemical	Foods, food products and beverages	Crude Fat Determination - Soxhlet Method Based on AOAC Official Method 948.22	In-House SOP-NLRC-AL-128, Rev.1 dated on 24-11-2022	P
Chemical	Foods, food products and beverages	Determination Of Cholesterol By HPLC	NLRC-SOP-AL-121, Rev.1 dated on 07-11-2022	P
Chemical	Perfumes, Oils, Beverage, and Industrial Solvents	Refractive Index Test	NLRC-SOP-AL-139, Rev.1 dated on 19-12-2022	P
Chemical	Electronic Nicotine Products, Heated Tobacco Products Household Care Products, Oral and Personal Care Products	Determination of Triclosan and Triclorocarban by UHPLC-MS/MS	In-House SOP-NLRC- AL-099 Rev.1 dated on 29-12-2019	P
Chemical	Water and Food Products	Acrylamide By Using Quechers Workflow	In-House SOP-NLRC-AL-096 ,Rev.1 05-12-2019	P



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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	Water	Microcystin-LR in Water Using Quechers Workflow	In-House SOP-NLRC-AL-097, Rev.1 dated on 05-12-2019	P
Chemical	Soap Products, Cosmetics and Personal Care Products & Household Care Products	Determination Of Total Free Alkali Content	ISO 684:2022	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	In-House SOP-NLRC-AL-113, Rev.1 dated on 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, pentachloro phenol, and trichlorophenol	In house SOP-NLRC-AL-125, Rev.1 Dated on 26-11-2022	P



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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)
		LC-MS-MS based on EN 13130-1,13		
Chemical	Soap Products, Cosmetics and Personal Care Products & Household Care Products	Determination of Total Fatty Matter Content	ISO 685:2020	P
Chemical	Soap Products, Cosmetics and Personal Care Products & Household Care Products	Determination of Total Alkali Content	ISO 685:2020	P
Chemical	Soap Products, Cosmetics and Personal Care Products & Household Care Products	Determination of Free Caustic Alkali Content (Free Sodium and Potassium Hydroxide).	ISO 456/Directive 80/1335/EEC (Volume 2, Cosmetics legislation, Cosmetic products, Methods of analysis.	P
Chemical	Foods, food products and beverages	Determination Of Total Ash Content by Muffle Furnace	In-House SOP-NLRC-AL-127, Rev.1 dated on 21-11-2022 based on AOAC 942.05, 930.22, 900.02 & 920.108, ISO 2171:2007	P
Chemical	Detergent Products & Household Care Products	Inorganic Salts Content in Detergent Products	EAS 383:2021	P
Chemical	Detergent Products, Soap	Determination Of Water Insoluble Matter	EAS 383:2021	P



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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)
	Products, Cosmetics and Personal Care Products & Household Care Products			
Chemical	Soap Products, Cosmetics and Personal Care Products & Household Care Products	Determination of Unsaponifiable, Un-saponified And Un-saponified Saponifiable Matter and free fatty acid Content	ISO 1067:1974/UAE.S GSO 204:1994	P
Chemical	Cosmetics And Personal Care Products, Detergents, Household Care Products, Soap	Content Of Matter Insoluble in Alcohol	In-House SOP-NLRC-AL-101, Rev.1 dated on 05-01-2020	P
Chemical	Water And Wastewater	Determination Of Oil and Grease in Water and Wastewater by Using Extraction Method	In-House SOP-NLRC-AL-104, Rev.1 dated on 30-03-2020	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)	In-House SOP-NLRC-AL-115, Rev.1 dated on 25-03-2021	P
Chemical	Water	Determination Of Dichloroisocyanurate By LC-MS/MS	In-House SOP-NLRC- AL-119, Rev.1 Dated on 01-06-2020	P



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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	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	In-House SOP-NLRC-CL-049, Rev.1 dated on 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	In-House SOP-NLRC-CL-052, Rev.2 dated on 19-04-2023 based on Coresta RM No.74/86/96.	P
Chemical	Tobacco Products, Heated Tobacco Products, Electronic Nicotine Products, and its emissions (Aerosols), Cosmetics and Personal Care Products, Food and	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.	In-House SOP-NLRC-CL-053 , Rev.1 dated on 03-02-2022 Coresta Recommended method NO. 91	P



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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)
	Beverage products, Water	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		
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 Compound	In-House SOP-NLRC-AL-150, Rev.1 Dated on 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	In-House SOP-NLRC-CL-054, Rev.1 dated on 02-09-2019 based on Coresta RM 98	P
Chemical	Tobacco products, Heated Tobacco Products, Electronic Nicotine Products and its	Determination of Dry Particulate Matter, Aerosol Condensed Mass, Aerosol Vaporized Mass, Nicotine, Nicotine Consistency, Carbon	In-House SOP-NLRC-CL-055, Rev.1 dated on 23/08/2023 based on ISO 20768:2018/24199:2022/ 24197:2022/Coresta	P



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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)
	emissions (Aerosols)	Monoxide and Nitrogen Oxides Yield	Recommended Method No.81,99,100,101/Afnor XP D90-300-2,3/PAS 8850:2020	
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	In-House SOP-NLRC-CL-056, Rev.1 dated on 29-12-2019/Coresta RM No. 70/ISO 21330:2018	P
Chemical	Skin Cream	Determination of Total Content of Fatty Substances (Fatty Matter)	GSO 1153/2010	P
Chemical	Multiple food and Beverages commodities, Cosmetics and Personal care Product	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.	In-House SOP-NLRC-PRL-013, Rev.1 Dated on 29-12-2022 – based on EN 15662-2018/ AOAC 2007.01	P
		Cyromazine		
		Methamidophos		
		Formetanate		
		Carbofuran		
		Methabenzthiazuron		
		Acephate		
		Pymetrozine		
		Aminocarb		
Propamocarb				



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		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		



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		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		
		Flutriafol		
		Methoprotryne		
		Forchlorfenuron		



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		Isoprocarb		
		Fenpropimorph		
		Isocarbophos		
		Isoproturon		
		Desmedipham		
		Phenmedipham		
		Spiroxamine		
		Pyrimethanil		
		Metalaxyl		
		Chlorantraniliprole		
		Cycluron		
		Prometryn		
		Linuron		
		Thiofanox		
		Fenobucarb		
		Azoxystrobin		
Chemical		Diethofencarb		P
		Ethofumesate		
		Ethiprole		
		Fludioxonil		
		Methiocarb		
		Siduron		
		Halofenozide		
		Fenamidone		
		Furalaxyl		
		Acibenzolar-S-methyl		
		Nuarimol		
		Dimethomorph		
		Boscalid		
		Mandipropamid		



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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)
		Flutolanil		
		Promecarb		
		Paclobutrazol		
		Triadimenol		
		Mepronil		
		Cyproconazole		
		Myclobutanil		
		Chloroxuron		
		Bupirimate		
		Methoxyfenozide		
		Triadimefon		
		Bifenazate		
		Cyprodinil		
		Mefenacet		
		Mepanipyrim		
		Fluquinconazole		
		Fenhexamid		
		Fluoxastrobin		
		Tetraconazole		
		Bromuconazole isomer 1		
		Butafenacil		
		Iprovalicarb		
		Flufenacet		
		Triticonazole		
		Cyazofamid		
		Diflubenzuron		
		Spirotetramat		
		Fenarimol		
		Fenbuconazole		
		Epoconazole		



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		Etaconazole		
		Fipronil		
		Neburon		
		Flusilazole		
		Fenoxycarb		
		Picoxystrobin		
		Rotenone		
		Tebufenozide		
		Dimoxystrobin		
		Bromuconazole isomer 2		
		Flubendiamide		
		Diclobutrazol		
		Carfentrazone ethyl		
		Kresoxim-methyl		
		Tebuconazole		
		Spinosad A		
		Penconazole		
		Prothioconazole		
		Zoxamide		
		Famoxadone		
		Hydramethylnon		
		Triflumuron		
		Prochloraz		
		Hexaconazole		
		Benalaxyl		
		Metconazole		
		Propiconazole		
		Pyraclostrobin		
		Clofentezine		
		Bitertanol		



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		Spinosad D		
		Benzoximate		
		Diniconazole		
		Thiobencarb		
		Pencycuron		
		Spinetoram		
		Hexaflumuron		
		Triflumizole		
		Indoxacarb		
		Difenoconazole		
		Ipconazole		
		Trifloxystrobin		
		Novaluron		
		Emamectin-benzoate B1b		
		Clethodim		
		Teflubenzuron		
		Alanycarb		
		Buprofezin		
		Emamectin-benzoate B1a		
		Benfuracarb		
		Fluazinam		
		Metaflumizone		
		Furathiocarb		
		Temephos		
		Lufenuron		
		Tebufenpyrad		
		Pyriproxyfen		
		Piperonyl butoxide		
		Hexythiazox		
		Quinoxifen		



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		Flufenoxuron		
		Propargite		
		Etoxazole		
		Spiromesifen		
		Chlorfluazuron		
		Spirodiclofen		
		Fenpyroximate		
		Pyridaben		
		Eprinomectin		
		Abamectin B1a		
		Fenazaquin		
		Doramectin		
		Ivermectin		
Chemical		Allidochlor		P
		Diclobenil		
		Biphenyl		
		Mevinphos		
		Dichloroaniline, 3,4'-		
		Etridazole		
		Pebulate		
		N-(2;4-Dimethylphenyl)formamide		
		Tetrahydrophthalimide		
		Methacrifos		
		Chloroneb		
		2-Phenylphenol		
		Pentachlorobenzene		
		Tecnazene		
		Propachlor		
		Diphenylamine		



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		Tetrachloroaniline, 2,3,5,6-		
		Cycloate		
		Chlorpropham		
		Ethalfuralin		
		Trifluralin		
		Benfluralin		
		Sulfotep		
		Phorate		
		Diallate 1		
		BHC, alpha-		
		Diallate 2		
		Hexachlorobenzene		
		Dicloran		
		Pentachloroanisole		
		Atrazine		
		BHC, beta-		
		Clomazone		
		BHC, gamma-		
		Terbutylazine		
		Quintozene		
		Terbufos		
		Pentachlorobenzonitrile		
		Fonofos		
		Propyzamide		
		Profluralin		
		Pyrimethanil		
		Diazinon		
		Disulfoton		
		Fluchloralin		
		BHC, delta-		



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		Terbacil		
		Chlorothalonil		
		Tefluthrin		
		Isazophos		
		Triallate		
		Endosulfan ether		
		Pentachloroaniline		
		Propanil		
		Dimethachlor		
		Acetochlor		
		Methyl parathion		
		Vinclozolin		
		Chlorpyrifos-methyl		
		Tolclofos-methyl		
		Transfluthrin		
		Heptachlor		
		Alachlor		
		Propisochlor		
		Metalaxyl		
		Fenchlorphos		
		Fenitrothion		
		Pirimiphos-methyl		
		Prodiamine		
		Linuron		
		Pentachlorothioanisole		
		Dichlofluanid		
		Malathion		
		Anthraquinone		
		Aldrin		
		Metolachlor		



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		Fenthion		
		Chlorpyrifos		
		Parathion		
		Dichlorobenzophenone, 4,4'-		
		Triadimefon		
		Chlorthal-dimethyl		
		Fenson		
		MGK 264 1		
		Bromophos-methyl		
		Diphenamid		
		Pirimiphos-ethyl		
		Isodrin		
		Cyprodinil		
		Isopropalin		
		MGK 264 2		
		Chlorfenvinphos 1		
		Metazachlor		
		Pendimethalin		
		Heptachlor epoxide		
		Penconazole		
		Chlozolate		
		Tolyfluanid		
		Bromfenvinphos-methyl		
		Captan		
		Chlorfenvinphos 2		
		Bioallethrin		
		Fipronil		
		Quinalphos		
		Triadimenol		
		Folpet		



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		Procymidone		
		Chlorbenside		
		Triflumizole		
		Chlordane, trans-		
		Bromophos-ethyl		
		DDE, o,p'-		
		Paclobutrazol		
		Tetrachlorvinphos		
		Endosulfan I		
		Chlordane, cis-		
		Flutriafol		
		Nonachlor, trans-		
		Chlorfenson		
		Fenamiphos		
		Bromfenvinphos		
		Flutolanil		
		Iodofenfos		
		Prothiofos		
		Tricyclazole		
		Profenofos		
		Fludioxonil		
		Pretilachlor		
		DDE, p,p'-		
		Dieldrin		
		Oxadiazon		
		Myclobutanil		
		DDD, o,p'-		
		Oxyfluorfen		
		Flusilazole		
		Bupirimate		



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		Nitrofen		
		Fluazifop-P-butyl		
		Endrin		
		Ethylan		
		Chlorfenapyr		
		Chlorthiophos 1		
		Chlorobenzilate		
		Endosulfan II		
		Chlorthiophos 2		
		DDD, p,p'-		
		DDT, o,p'-		
		Ethion		
		Nonachlor, cis-		
		Chlorthiophos 3		
		Endrin aldehyde		
		Sulprofos		
		Triazophos		
		Carbophenothion		
		4,4'-Methoxychlor olefin		
		Carfentrazone ethyl		
		Edifenphos		
		Norflurazon		
		Lenacil		
		Endosulfan sulfate		
		DDT, p,p'-		
		Hexazinone		
		2,4'-Methoxychlor		
		Tebuconazole		
		Propargite		
		Resmethrin 1		



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		Captafol		
		Piperonyl butoxide		
		Resmethrin 2††		
		Nitralin		
		Iprodione		
		Endrin ketone		
		Pyridaphenthion		
		Tetramethrin 1		
		Phosmet		
		Bromopropylate		
		EPN		
		Tetramethrin 2		
		Bifenthrin		
		Methoxychlor		
		Fenpropathrin		
		Tebufenpyrad		
		Phenothrin 1		
		Tetradifon		
		Phenothrin 2		
		Phosalone		
		Azinphos-methyl		
		Leptophos		
		Pyriproxyfen		
		Mirex		
		Cyhalothrin, lambda-		
		Fenarimol		
		Acrinathrin		
		Pyrazophos		
		Azinphos-ethyl		
		Pyraclofos		



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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)
		Permethrin, cis Permethrin, trans- Pyridaben Coumaphos Fluquinconazole Prochloraz Cyfluthrin 1 Cypermethrin 1 Flucythrinate 1 Etofenprox Acequinocyl Flucythrinate 2 Fluridone Fenvalerate 1 tau-Fluvalinate 1 Fenvalerate 2 tau-Fluvalinate 2 Deltamethrin		
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/ In-House SOP -NLRC-AL-126, Rev.1 dated on 20-08-2021	P



Accreditation Scope

National Laboratory & Research Center, NAL 074 Testing Laboratory, (ISO/IEC 17025:2017)

Fujairah Free Zone, Fujairah, UAE

Issue Date: 24/10/2023

Expiry Date: 20/07/2026

Issue No: 08

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	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)	In-House SOP-NLRC-AL-152, Rev.1 Dated on 20-03-2023	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	In house SOP NLRC-MML-090,Rev..1 dated on 02-10-2021	P



Accreditation Scope

National Laboratory & Research Center, NAL 074 Testing Laboratory, (ISO/IEC 17025:2017)

Fujairah Free Zone, Fujairah, UAE

Issue Date: 24/10/2023

Expiry Date: 20/07/2026

Issue No: 08

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)
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.	In house SOP NLRC-MML-093, Rev.1 dated on 18-09-2022	P
Microbiology	Food & Food Products	Aerobic Plate Count	US FDA BAM Chapter 3	P
Microbiology	Food & Food Products	Enumeration of Staphylococcus aureus	ISO 6888-1:1999/AMD 2:2018	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	P
Microbiology	Food & Food Products	Enumeration of Total coliforms	CMMEF: Chapter-9.73.	P
Microbiology	Food & Food Products	Enumeration of Clostridium perfringens	ISO 7937:2004	P
Microbiology	Food & Food Products	Enumeration of Presumptive Sulphite Reducing Clostridia	In house SOP-NLRC-MML-069, Rev.01 Dated on 14-10-2018	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



Accreditation Scope

National Laboratory & Research Center, NAL 074 Testing Laboratory, (ISO/IEC 17025:2017)

Fujairah Free Zone, Fujairah, UAE

Issue Date: 24/10/2023

Expiry Date: 20/07/2026

Issue No: 08

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)
Microbiology	Food & Food Products	Qualitative Detection of Clostridium botulinum in food and food products by RT-PCR	In house SOP-NLRC-MML-089, Rev.1 dated on 09-05-2022	P
Microbiology	Food & Food Products	Enumeration of E. coli (Chromogenic Plate Method)	In house SOP-NLRC-MML-092, Rev.1 dated on 10-10-2022	P
Microbiology	Food & Food Products	Detection of Listeria Monocytogens	In house SOP-NLRC-MML-097, Rev.1 dated on 27-10-2022	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 6888-1:1999/AMD 2:2018	P
Microbiology	Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	Enumeration of Total coliforms	CMMEF: Chapter-9.73	P
Microbiology	Microbiology- Personnel Swab, Surface Swab, Equipment Swab Etc.	Enumeration of E. coli (Chromogenic Plate Method)	In house SOP-NLRC-MML-092, Rev.1 Dated on 10-10-2022	P



Accreditation Scope

National Laboratory & Research Center, NAL 074 Testing Laboratory, (ISO/IEC 17025:2017)

Fujairah Free Zone, Fujairah, UAE

Issue Date: 24/10/2023

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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)
Microbiology	Food, Cosmetics	Detection of Lard DNA in cosmetics & food based on Real-time Polymerase Chain Reaction (RT-PCR) Method	In house SOP-NLRC-MML-073, Rev.1 Issue Date: 21-04-19	P
Microbiology	Microbiology Sampling - Sampling of Food & Food Products	Sampling of Food & Food Products	In house SOP-NLRC-MML-010, Rev.1 dated on 12-11-2017	P
Microbiology	Microbiology Sampling - Sampling of Swimming pool Water	Sampling of Swimming pool Water	In house SOP-NLRC-MML-013, Rev.1 dated on 12-11-2017	P
Microbiology	Microbiology Sampling - Swab Sampling	Swab Sampling	In house SOP-NLRC-MML-014, Rev.1 dated on 20-09-2020	P
Microbiology	Microbiology Sampling - Sampling of Potable water	Sampling of Potable water	In house SOP-NLRC-MML-066,, Rev.1 dated on 12-11-2017	P
Microbiology	Microbiology Sampling - Sampling of In-door Air	Sampling of In-door Air	In house SOP-NLRC-MML-011 & 012, Rev.2 dated on 28-07-2023	P
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