

Accreditation Scope

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

Fujairah Free Zone, Fujairah, UAE

Issue Date: 21-07-2020

Expiry Date: 20-07-2023

Issue No: 07

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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Chemical	Cigarette	Carbon Monoxide Yield	ISO 8454:2007 ed.3 Amd.2:2019	P
		Nicotine yield	ISO 10315:2013 ed.3	
		Tar 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. 4, 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	
		- Softness of the cigarettes - Firmness of the Cigarettes - Depressed diameter of the Cigarettes - Depression of the Cigarettes - Point of contact diameter of the Cigarettes	In House SOP-NLRC-CL- 005, Rev. 3, dated 20/01/2018	

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Chemical	Tobacco & Tobacco Product (Cigarette /Molasses /Dokha / Tobacco Pipe, e- vape (e-liquid))	Moisture content	In house SOP-NLRC-CL-006, Rev. 3, dated 18/03/2018 based on AOAC 966.02:1968 & Coresta Method N° 76: July 2017	P
		Total ash content on wet or dry weight	ISO 1575:1987 ed.3	
		Fine tobacco content passing through 425µm sieve on wet or dry weight	In house SOP-NLRC-CL-009, Rev. 2, dated: 26/11/2016	
		Nicotine content in wet or dry weight	WHO SOP 04:2014	
		Determination of Nicotine in Tobacco Products and Electronic Nicotine Products BY UHPLC & LC-MS/MS	In house SOP-NLRC-CL-057, Rev 1, dated: 05/01/20	
		Visual test	In house SOP-NLRC-CL-014, Rev. 3 date 24/12/2018	
	Tobacco and Tobacco Product (Cigarette /Molasses /Dokha/ Tobacco Pipe)	Determination of acid insoluble ash on wet or dry weight	ISO 1577:1987 ed.2	P
		Silicated residues insoluble in HCl (Sand content) on wet or dry weight	ISO 2817:1999 ed.2	
		Sugar content calculated as Glucose (Fructose, Glucose and Sucrose) on wet or dry weight	In house SOP-NLRC-CL-026, Rev 3, dated: 15/3/2017	
		Glycerol content on wet or dry weight	In house SOP-NLRC-CL-026, Rev. 3, dated: 15/3/2017	P
		Sorbic acid and Benzoic acid on wet or dry weight	In house SOP-NLRC-CL-025, Rev. 3, dated: 15/3/2017	
		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	

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Chemical	Tobacco and Tobacco Product (Cigarette /Molasses /Dokha/ Tobacco Pipe, e-vape (e-liquid))	Determination of Herbic acid pesticide -Dicamba -2,4-D -2,4,5-T	In house SOP-NLRC-PRL-004, Rev. 6, dated 02/08/2017 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. 3, dated 20/05/2017	
		Menthol Content	In House SOP-NLRC-CL-036, Rev. 3, dated 16/04/2020 based on ISO 13110 - 2012 & AOAC 968.03:1970	
		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. 4, dated 06/06/2019 based on ISO 19290:2016 & Coresta Recommended Method N° 72: 2017	P
	Tobacco and Tobacco products, Food, Agricultural Products 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

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Chemical	Tobacco products and Food	Radio-nucleide Activity Test Cesium(¹³⁴ Cs), Cesium (¹³⁷ Cs), Potassium (⁴⁰ K)	In House SOP-NLRC-CL- 034, Rev. 3, dated 31/10/2017 based on Gamma Activity Monitor user manual and Procedures	P
	Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds	Pesticide Residues- Dithiocarbamate	In House SOP-NLRC-PRL- 007, Rev. 3, dated 24/03/2018 based on Thermo Fischer Scientific Inc, Application Note 10333:2012	P
		Pesticide Residues	NLRC-PRL-008, Rev. 4, dated 22/06/2020 Based on AOAC Official Method 2007.01 & Agilent Application Notes	P
		1.Chlormequat		
		2.Cyromazin		
		3.Aminopyralid		
		4.Methamidophos		
		5.Acephate		
		6.Omethoate		
		7.Propamocarb		
		8.Oxamyl		
		9.Methomyl		
		10.Oxydemeton-methyl		
		11.Demeton- S-methylsulfone		
		12.Thiabendazole		
		13.Imidacloprid		
		14.Dimethoate		
		15.Thiacloprid		
		16. Aldicarb		
		17.Pirimicarb		
		18.Dichlorvos		
		19.Carbofuran		
		20.Demeton s methyl		

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Chemical	Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds	21. Carbaryl 22. Thiodicarb 23. Imazalil (Enilconazole) 24. Metalaxyl 25. Metalaxyl-M 26. Methidathion 27. Triforine 28. Chlorantraniliprole 29. Pyrimethanil 30. Azinphos-methyl 31. Phosmet (Imidan) 32. Fenpropimorph (Ro 14-3169) 33. Azoxystrobin 34. Methiocarb (Mercaptodimethur) 35. Dimethenamide (SAN 582H) 36. Boscalid (Nicobifen) 37. Mandipropamid 38. Flutolanil 39. Malathion 40. Methoxyfenozide	NLRC-PRL-008, Rev. 4, dated 22/06/2020 Based on AOAC Official Method 2007.01 & Agilent Application Notes	P

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Chemical	Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds	41. Dimethomorph (E) 42. Triadimefon 43. Myclobutanil 44. Triazophos 45. Bifenazate (D 2341) 46. Triadimenol 47. Dichlofluanid 48. Spirotetramat 49. Fenhexamid 50. Fenarimol 51. Ethoprop (Ethoprophos) 52. Fenbuconazole 53. Cyprodinil 54. Diflubenzuron 55. Flusilazol 56. Fenamiphos 57. Tebufenozide 58. Haloxypop 59. Kresoxim methyl 60. Tolyfluanid 61. Penconazole 62. Fenthion 63. Tebuconazole 64. Benalaxyl 65. Diazinon (Dimpylate) 66. Propiconazole 67. Famoxadon 68. Zoxamide 69. Prothioconazole 70. Prochloraz 71. Pyraclostrobin	NLRC-PRL-008, Rev. 4, dated 22/06/2020 Based on AOAC Official Method 2007.01 & Agilent Application Notes	P

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Chemical	Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds	72. Dodine 73. Pirimifos-methyl 74. Phorate 75. Phosalone 76. Spinosyn A 77. Tolocfos methyl 78. Bitertanol 79. Clofentezin 80. Difenconazole 81. Chlorpyrifos-methyl 82. Cadusafos 83. Indoxacarb 84. Trifloxystrobin 85. Spinosyn D 86. Spinetoram-Spinosyn J 87. Novaluron 88. Cycloxydim 89. Clethodim 90. Profenofos 91. Buprofezin 92. Terbufos 93. Spinetoram-Spinosyn L 94. Piperonyl butoxide 95. Quinoxifen 96. Chlorpyrifos 97. Hexythiazox 98. Propargite 99. Fenpyroximate (E) 100. Abamectin 101. Dicamba	NLRC-PRL-008, Rev. 4, dated 22/06/2020 Based on AOAC Official Method 2007.01 & Agilent Application Notes	P

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Chemical	Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds	102. Bentazone 103. 2,4-D 104. 2,4,5-T 105. Fludioxonil 106. Fipronil 107. Iprodione 108. Teflubenzuron 109. 2-Phenylphenol 110. Tecnazene (TCNB) 111. Diphenylamine 112. Chlorpropham 113. BHC-alpha 114. BHC-beta 115. BHC-Gamma 116. BHC-Delta 117. Hexachlorobenzene 118. Dimethipin 119. Quintozene 120. Chlorothalonil 121. Formothion 122. Vinclozolin 123. Parathion-methyl 124. Heptachlor 125. Fenitrothion 126. Aldrin 127. Dicofol 128. Heptachlor-endo-epoxide (isomer A) 129. Heptachlor exo-epoxide (isomer B)	NLRC-PRL-008, Rev. 4, dated 22/06/2020 Based on AOAC Official Method 2007.01 & Agilent Application Notes	P

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Chemical	Tobacco and Tobacco Products and Food, Fruits & Vegetables, Agricultural Products, Feeds	130. Captan 131. Folpet 132. Methoprene 133. Procymidone 134. Chlordane-trans (gamma) 135. Endosulfan I (alpha isomer) 136. Chlordane-cis (alpha) 137. Dieldrin 138. Endrin 139. Endosulfan II (beta isomer) 140. p, p'-DDD 141. o, p-DDT 142. Endosulfan sulfate 143. p, p'-DDT 144. Resmethrin-cis (Cismethrin) 145. Bromopropylate 146. Bifenthrin 147. Fenpropathrin 148. Pyriproxyfen 149. Lambda Cyhalothrin 150. Permethrin I 151. Permethrin II (trans) 152. Σ Cyfluthrin 153. Σ Cypermethrin 154. Etofenprox (Ethofenprox) 155. Esfenvalerate (Fenvalerate A-alpha) 156. Fenvalerate 157. Deltamethrin	NLRC-PRL-008, Rev. 4, dated 22/06/2020 Based on AOAC Official Method 2007.01 & Agilent Application Notes	P

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Chemical	Cosmetics and Personal Care Products, & Electronic nicotine Products (e- liquid (Vape) product)	Allergens	In House NLRC-AL-005, Rev. 4, dated 06/06/2019 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) (CAS no. 5392.40.5)		
		14. D-Limonene (CAS no. 5989.27.5)		
		15. Eugenol		

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Chemical	Cosmetics and Personal Care Products, & Electronic nicotine Products (e- liquid (Vape) product)	(CAS no. 97.53.0)	In House NLRC-AL-005, Rev. 4, dated 06/06/2019 Based on International Fragrance Association (IFRA), Version 3, 12th September 2007, Bruker Application Note GC-MS 08 & GL Sciences Application Note :113	P
		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. Linal (CAS no. 80.54-6)		
		22. Linalool (CAS no. 78.70.6)		
		23. Lylal (CAS no. 31906-04-4)		
		24. Methylheptyne carbonate (CAS no. 111.12.6)		
Chemical	Cosmetics and Personal Care Products, & Edible Oil	Determination of Fluoride content	In House NLRC-AL-006, Rev. 1, dated 30/01/2018 Based on Application Note M706, M707, M102 Metter Toledo	P
		Determination of Peroxide Value	In House NLRC-AL-008, Rev. 1, dated 30/01/2018 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	P

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			Based on ASTM D 2180 – 89 (Reapproved 2008) & UAE.GSO ISO 4321:1994	
	Personal Care Product, Detergents and Tobacco Product, Canned Food	Determination of Chloride Content by Potentiometric Titration	In House NLRC-AL-012, Rev. 3, dated 07/07/2019 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	
Microbiological	Water- Domestic water, Recreational water, Potable water, Bottled drinking water, Swimming pool water	Heterotrophic Plate Count	APHA 9215B, 23rd Edition:2017	P
		Enumeration of Total Coliform	APHA 9222B, 23rd Edition (2017)	
		Enumeration of Fecal Coliform	APHA 9222D, 23rd Edition: 2017	
		Enumeration of E. coli	APHA 9222 B & H, 23rd Edition: 2017	
		Enumeration of Pseudomonas aeruginosa	ISO 16266:2006 & National Standard Method NSM W6 (2007)	
		Enumeration of Fecal Streptococcus	APHA 9230 C, 23 rd Edition:2017	
		Enumeration of Total coliform, Fecal coliform & E. coli	APHA 9221B, APHA 9221E & APHA 9221F, 23 rd Edition: 2017	
		Detection & Enumeration of Legionella	ISO 11731:2017	
		Enumeration of Yeast & Mould	APHA 9610 D, 23rd Edition 2017	
Microbiological	Food	Aerobic Plate Count	CCFRA 1.1.1:2007 5th Edition	P

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		Total Coliform, Fecal Coliform, E. coli (MPN method)	CMMEF 9.71; 9.81 & 9.91: 2015, 5th Edition	
		Enumeration of Yeast & Mould	C.C.F.R.A 2.1.1:2007 5th Edition	
		Enumeration of Staphylococcus aureus	C.C.F.R.A 3.5.1:2007 5th Edition	
		Enumeration of Bacillus cereus	US FDA BAM Chapter 14 Feb 2012	
		Enumeration of Total Coliforms	C.C.F.R.A 2.2.1:2007 5th Edition	
		Detection of Salmonella	C.C.F.R.A 3.1.2 & 3.1.5 :2007 5th Edition	
		Detection of Vibrio parahaemolyticus	C.C.F.R.A 3.8.2 :2007 5th Edition	
		Enumeration of Clostridium perfringens	C.C.F.R.A 3.6.1:2007 5th Edition	
		Enumeration of Enterobacteriaceae	C.C.F.R.A 2.3.1:2007 5th Edition	
		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	
		Detection of Campylobacter Species	CCFRA 3.3.1:2007, 5th Edition	
		Enumeration of Presumptive Sulphite Reducing Clostridia	CCFRA 2.8.1:2007, 5th Edition	
Microbiological	Cosmetics	Enumeration of Aerobic Mesophilic Bacteria	ISO 21149:2017	P
		Enumeration of Yeast & Mould	ISO 16212:2017	

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		Detection of Candida albicans	ISO 18416:2015	
		Detection of E. coli	ISO 21150:2015	
		Detection of Pseudomonas aeruginosa	ISO 22717:2015	
		Detection of Staphylococcus aureus	ISO 22718:2015	
	Non-Sterile	Enumeration of TAMC and TYMC in Non-Sterile Products	In-house SOP NLRC-MML-071 Issue 01.04.2019 (Rev 1)	P
	Air and Environment	Yeast and Mould	In-house SOP NLRC-MML-012 Issued 12.11.2017 (Rev 1)	
		Total Bacterial Count	In-house SOP NLRC-MML-011 Issued 12.11.2017 (Rev 1)	
	Surface swab and Hand swab	Aerobic Colony Count	CCFRA 1.1.1:2007 5th Edition	P
		Total Coliforms	CCFRA 2.2.1:2007 5th Edition	
		E. coli	CMMEF 9.91: 5th Edition, 2015	
		Staphylococcus aureus	CCFRA 3.5.1:2007 5th Edition	
		Detection of Listeria Spp	Reveal test kit Based on AOAC official method (997.03) (Neogen): 2016	
		Detection of E. coli O157	Reveal test kit Based on AOAC official method (No.2000.14) (Neogen) : 2016	

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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)	
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

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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, & Electronic nicotine Products (e-liquid (Vape))	Determination of Humectants Content in Tobacco And Tobacco Products By Gas Chromatography 1. Glycerol 2. Propylene Glycol 3. Triethylene Glycol	In-house SOP-NLRC-CL- 041, Issued 16/04/2020, (Rev. 2) based on WHO TobLabNet Official Method SOP 06 June, 2016 and CORESTA METHOD N° 60, June 2019	
	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, Electronic nicotine Products (e-liquid (Vape))	Chemical Composition and Impurities Analysis of E-Liquid Products by Gas Chromatography	In-House SOP NLRC-CL- 051, Issued 01/06/2019 (Rev 1)	
	Tobacco product	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 -	Determination of The Air Permeability on Fine Paper	In-house SOP-NLRC-CL- 043, Issued 13/01/2019	P

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	Cigarettes Paper, Plug Wrap Paper and Tipping Paper)	(Cigarettes Paper, Plug Wrap Paper and Tipping Paper)	(Rev. 1) based on ISO 2965: 2019 ed.4 and CORESTA Method N°40, October 1994	
	Tobacco & Tobacco product	Determination of PH of Tobacco and Tobacco Products	In-house SOP-NLRC-CL- 039, Issue 22/06/2020 (Rev. 2) based on CORESTA Method No. 69, July 2017	
	Tobacco product, Electronic nicotine Products (E- liquid (Vape))	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, Issue 01/05/2019 (Rev. 1)	
	Tobacco products	Gravimetric and Statistical Analysis of Cigarette Parts/Components And Nicotine Yield	In-House SOP-NLRC-CL- 046, Issued 01/05/2019 (Rev. 1)	
Chemical	Tobacco products	1. Cigarette Weight 2.Tobacco Weight	In-House SOP-NLRC-CL-	P

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		3.Non-Tobacco Mass	046, Issued 01/05/2019 (Rev. 1)	
		4.Filter Weight		
		5. Cigarette Paper Weight		
	Tobacco products, Beverage & Electronic nicotine Products (E-liquid (Vape))	Determination of Caffeine, Taurine, Inositol and Glucuronolactone in Beverage and Tobacco Products by UHPLC-MS/MS	In-House SOP-NLRC-AL-037, Issued 01/05/2019 (Rev. 1)	P
	Tobacco product (Molasses)	Estimation of Tobacco Percentage in Molasses Products	In-House SOP -NLRC-CL-044, Issued 01/05/2019 (Rev. 1)	
	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)	
Chemical	Perfume and perfumery product, alcoholic and	Determination Of Alcohol Content (Methanol, Ethanol And 1-	In-House SOP-NLRC-AL-016, Issued 07/07/2018 (Rev. 1)	P

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	non-alcoholic beverage, food, beverage and cosmetics, personal care product, detergent and disinfectant solutions, and tobacco products & Electronic nicotine Products (e-liquid (Vape))	Propanol) By Gas Chromatography – FID		
	Perfumes and perfumery products	Determination of Denatonium Benzoate (Bitrex) in Perfumes and Perfumery Products	In-House SOP-NLRC-AL-017, Issued 07/07/2018 (Rev. 1) using-UHPLC MS/MS	P
	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	P

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			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	
	Cosmetics, personal care, detergents, perfumes, food and beverages	Determination of Density, Specific Gravity & Brix Content by Using Mettler Toledo Density Meter Dm40	In-House SOP-NLRC-AL- 021, Issued 01/05/2019 (Rev. 1) based on ASTM D 4052 – 96 (Reapproved 2002) and GSO 802 and UAE.S GSO 1209.	P
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)	P

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	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 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)	
	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)	
	Perfumes and perfumery products and denatured alcohol product	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)	
Chemical	Cosmetics, Personal care, Detergent, Tobacco, Food&	1. Denatonium Benzoate (Bitrex)	In-House SOP-NLRC-AL-052 using, Issued 01/05/2019 (Rev. 1)	P
		2. Diethyl Phthalate		
		3. Quassin (Mixture of Quassin, Isoquassin and Neoquassin)		
		4. Sucrose Octaacetate (Octa-O-Acetyl D-(+)-Sucrose)		
	Cosmetics, Personal care, Detergent, Tobacco, Food&	Determination of Water Content in Cosmetics, Personal Care, Detergent, Tobacco, Food&	In-House SOP-NLRC-AL-25 Issued 01/05/2019 (Rev. 1)	

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	Beverage	Beverage Products by KF Volumetric Titration		
	All beverage, food products, and Electronic nicotine Products (e- liquid (Vape))	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)	In-House SOP-NLRC-AL- 084, Issued 01/05/2019 (Rev. 1)	
Chemical	Beverage, Food, Tobacco products, Electronic nicotine Products (e- liquid (Vape))	Determination of 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	In-House SOP-NLRC-AL- 077, Issued 01/05/2019 (Rev.1)	P

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	Beverage product, tobacco product and Electronic nicotine Products (e-liquid (Vape))	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. Pyridoxamine (Vitamin B6) 8. Pyridoxal (Vitamin B6) 9. Biotin (Vitamin B7) 10. Folic Acid (Vitamin B9)	In-House SOP-NLRC-AL-078, Issued 01/05/2019 (Rev.1)	P
Chemical	Beverage and food products, cosmetics products, personal care products, detergent products, perfume products, and Electronic nicotine	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	In-House SOP-NLRC-AL-081, Issued 07/07/2019 (Rev.2)	P

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	Products (E – Liquid (Vape))	9.Methyl paraben 10.Ethyl paraben 11.Propyl paraben 12.Butyl paraben		
	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	In-House SOP-NLRC-AL- 083, Issued 01/05/2019 (Rev.1)	P
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	In-House SOP-NLRC- PRL-012, Issued 01/05/2019 (Rev.1)	
		1. 1.BHC-Alpha		

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		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		P
Chemical	Tobacco and tobacco product	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	In-House SOP-NLRC- PRL-012, Issued 01/05/2019 (Rev.1)	P
Chemical (Radioactivity)	Water	Determination of Gross Alpha, Beta-Activity By Radioactivity Counter (Qualitative) 1. Gross Alpha (Qualitative)	In-House SOP-NLRC-AL- 055, Issued 25/07/2019 (Rev.3)	

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		2. Gross Beta (Qualitative)		
Chemical	Honey	Determination of Total Ash Content for Honey	In-House SOP-NLRC-AL-087, Issued 01/06/2019 (Rev.1)	P
	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 01/05/2019 (Rev.1) 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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	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)	

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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 Carbonates and Bicarbonates	In-House SOP-NLRC-AL-043, Issued 01/05/2019 (Rev.1) based on AOAC OFFICIAL METHOD 920.194 CARBONATES AND BICARBONATES (Titration)	
	Water	Determination of Nitrogen Nitrate (NO ₃ ⁻) In Water by UV-Visible Spectrophotometer.	In-House SOP-NLRC-AL-035, Issued 01/05/2019 (Rev.1) based on APHA, 4500 NO ₃ ⁻ . B UV-Visible Spectrophotometer	
Chemical	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	P
		1. Nitrate (NO ₃ ⁻)		
		2. Nitrite(asNO ₂ ⁻)		
		3. Fluoride		
		4. Chlorate		
		5. Phosphate		
		6. Chloride		
		7. Sulfate		
		8. Bromide		
		9. Bromate		
		10. Chlorite		
		Determination of Concentration of The Volatile Organic Compounds (VOC) In Water By GC-MS PURGE and TRAP	In-House SOP-NLRC-AL-068, Issued 07/07/2019 (Rev.2) using Purge and	
		1. Vinyl chloride		

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		2. Methylene chloride 3. trans-1,2-Dichloroethene 4. cis-1,2-dichloroethene 5. Chloroform 6. Carbon Tetrachloride 7. 1,1,1-trichloroethane 8. Benzene 9. 1,2-dichloroethane 10. 1,2-dichloropropane 11. Bromodichloromethane 12. cis-1,3-dichloropropene 13. Toluene 14. Tetrachloroethene 15. trans-1,3 dichloropropene 16. 1,1,2-trichloroethane	Trap Gas Chromatography	
Chemical	Water	17. Dibromochloromethane 18. 1,2-dibromoethane 19. Ethylbenzene 20. m-Xylene+p-Xylene 21. o-Xylene 22. Styrene 23. Bromoform 24. 1,4-Dichlorobenzene 25. 1,2-Dichlorobenzene 26. 1,2-dibromo-3-chloro-propane 27. Hexachlorobutadiene	In-House SOP-NLRC-AL-068, Issued 07/07/2019 (Rev.2) using Purge and Trap Gas Chromatography	P
		Determination of Pesticide Residues in Water By Liquid-Liquid Extraction Using Gas Chromatography/Mass Spectrometry (GC-MS/MS) 1. Alachlor 2. Aldrin and dieldrin 3. Atrazine	In-House SOP-NLRC-PRL-010, Issued 01/05/2019 (Rev.1) based on Organochlorine pesticides APHA 6630 B and EPA 525.2	P

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		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		
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	In-House SOP-NLRC- PRL-011, Issued 01/05/2019 (Rev.1) pesticide residues in water	P

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		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		
Chemical	Water	Determination of Cyanide in Water and Waste Water by Using UV-VISIBLE SPECTROPHOTOMETER	In-House SOP-NLRC-AL-092, Issued 28/05/2019 (Rev.1)	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		
		2. Monochloramine		
		Determination of Haloacetic Acids (HAA's) In Water by Using TRIPLE QUADRUPOLE LC-MS/MS.	In-House SOP-NLRC-AL-070, Issued 01/05/2019 (Rev.1)	
		1. Di chloroacetate		
		2. Monochloroacetate		
		3. Trichloroacetate		
		Determination of Chlorinated Solvents / Haloacetonitrile's (Han's) In Water		

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Chemical	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		
		Determination of Semivolatile Organic Chemicals (Smvoc's) In Water by SOLID PHASE EXTRACTION AND GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC-MS/MS)	In-House SOP-NLRC-AL- 069, Issued 01/05/2019 (Rev.1)	
		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
		2,4,6- Trichlorophenol		
		1. Pentachlorophenol		
		Determination of EDTA & NTA In Water by Using TRIPLE QUADRUPOLE LC-MS/MS.	In-House SOP-NLRC-AL- 072, Issued 01/05/2019 (Rev.1)	
		1. NTA (Nitriloacetic Acid)		
		2. EDTA		
Chemical	Water	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)	P

Accreditation Scope

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

Fujairah Free Zone, Fujairah, UAE

Issue Date: 21-07-2020

Expiry Date: 20-07-2023

Issue No: 07

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		
Chemical	Water & Waste Water	7. Molybdenum	In-House SOP-NLRC-AL- 049, Issued 01/05/2019 (Rev.1) based on (APHA) -23rd EDITION METHOD (3125) and AOAC 993.14	P
		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		

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	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)	P
		Determination of Biochemical Oxygen Demand In Waste Water By Using BOD INSTRUMENT	In-House SOP-NLRC-AL-054, 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)	
Chemical	Honey Products, Beverage Products, Food Products	Determination Of HMF In Beverage And Food Products By UHPLC-DAD	In-House SOP-NLRC-AL-051, Issued 13.07.2019 (Rev.2) 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	P
	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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	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	P
	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	
Chemical	Beverage Products	Determination of Sulfur Dioxide (Sulfiting Agent) In Beverage Products By UHPLC-MS/MS	In-House SOP-NLRC-AL- 065, Issued 01/05/2019 (Rev.1)	P
		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)	
END				