

CERTIFICATE OF ACCREDITATION

This is to attest that

ANALYTICAL LABORATORY E.I.R.L

AV. GUARDIA CHALACA N° 1877 BELLAVISTA - PROV. CONSTITUCIONAL DEL CALLAO
LIMA, 07001, PERU

Testing Laboratory TL-833

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date July 18, 2025



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Accredited to ISO/IEC 17025:2017

Effective Date July 18, 2025

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing)	Soils, Sediment and Sludge	n-Hexane Extractable Material	EPA Method 9071B, Rev.2, 1998. n-Hexane extractable material (HEM) for sludge, sediment and solid samples
		True Total Barium	Alberta Environment 2009 (ISBN No. 978-0-7785-7691-4) / EPA Method 200.7 Rev.4.4 -1994 (VALIDATED) Soil Remediation Guidelines for Barite: Environmental Health and Human Health. Section 2.2.1. Soil (Fusion Methods), 9.1.3 True Total Barium EPA Method 200.7 Rev.4.4 -1994 Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry
		Total Cyanide	EPA Method 9013 A, Rev 2 - July 2014 Cyanide Extraction Procedure for solids and Oils SMEWW-APHA-AWWA-WEF Part 4500-CN⁻ C, F, 24th Ed., 2023 C. Total Cyanide after Distillation. F. Cyanide-Ion Selective Electrode Method
		Sulfides or Total Sulfides	EPA Method 9031, Rev. 0 1992. Extractable Sulfides in soils

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Soils, Sediment and Sludge (cont'd.)	Sulfates and Total Sulfates	SMEWW-APHA-AWWA-WEF Part 4500-SO₄²⁻ E, 24th Ed. 2023. Turbidimetric Method.
		Granulometric analysis	NTP 339.128: 1999 (revised 2019) (VALIDATED - Applied out of reach) Soil: Test Method for Granulometric Analysis
		Total Solids	SMEWW-APHA-AWWA-WEF Part 2540 G, 24th Ed. 2023. Total, Fixed, and Volatile Solids in Solid and Semisolid Samples.
		Volatile solids	SMEWW-APHA-AWWA-WEF Part 2540 G, 24th Ed. 2023. Total, Fixed, and Volatile Solids in Solid and Semisolid Samples.
	Soils, Sludge, Sediments and Oils	Metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn Validated: Li, P, SiO ₂ , Sn, Ti, Bi, U, Ce, Si	EPA Method 3051A Rev. 1, 2007/ EPA Method 6010D Rev. 5, 2018 (VALIDATED Applied out of reach), 2022 Microwave Assisted Acid Digestion of Sediments, Sludged, Soils, and Oils / Inductively Coupled Plasma - Optical Emission Spectrometry
	Soils, Sediments and Sludges	Total Metals Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Sb, Ti, V, Zn, Validated: B, Li, Mo, Se, Sr, Ti, U	EPA Method 3051A Rev. 1, 2007; EPA Method 3015A Rev. 1, 2007 / EPA Method 6020b Rev. 2, 2014 (VALIDATED - Applied out of reach), Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils; Microwave Assisted Acid Digestion of Aqueous Samples and Extracts / Inductively Coupled Plasma - Mass Spectrometry

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water, Process Water and Waste Water	Un-ionized Hydrogen Sulfide	SMEWW-APHA AWWA-WEF Part 4500-S²⁻-D, H 24th Ed., 2023 Sulfide. Methylene Blue Method Calculation of Un-ionized Hydrogen Sulfide.
		Total Nitrogen	SMEWW-APHA-AWWA-WEF Part 4500-N C, 24th Ed., 2023. / SMEWW-APHA-AWWA-WEF Part 4500-NO₃-E. Nitrogen. Persulfate Method / Nitrogen (Nitrate).Cadmium Reduction Method
		Acidity	SMEWW-APHA-AWWA-WEF Part 2310 B, 24th Ed., 2023. Acidity: Titration Method
		Total Hardness	SMEWW-APHA-AWWA-WEF Part 2340 C, 24th Ed., 2023 Hardness. EDTA Titrimetric Method.
		Hexavalent chromium - dissolved	SMEWW-APHA-AWWA-WEF Part 3500-Cr B, 24th Ed. 2023. Chromium. Colorimetric Method
	Natural Water, Water for human use and consumption, Process Water and Waste Water	Anions Chloride, Fluoride, Nitrite, N-Nitrite, Nitrate, N-Nitrate, N-Nitrate + N-Nitrite, Sulfate, Phosphate-P, Bromide, Bromate, Fluor, Chlorite, Chlorate	EPA 300.0 Rev. 2.1, 1993, VALIDATED (Applied out of reach), 2019 Determination of inorganic anions by ion chromatography
	Saline water	Anions: (Chlorate ClO ₃ ⁻ , Chlorite ClO ₂ ⁻)	EPA Method 300.0: 1993 Rev.2.1 (Validated - Applied out of reach), 2025 Determination of Inorganic Anions by Ion Chromatography.

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water and Waste Water	Silica (SiO ₂)	SMEWW-APHA-AWWA-WEF Part 4500-SiO₂ C., 24th Ed., 2023 Silica. Molybdosilicate Method
		Silicates (Si-SiO ₃ ; SiO ₂ -SiO ₃)	SMEWW-APHA-AWWA-WEF Part 4500-SiO₂ C-4a, 24th Ed., 2023. Silica. Molybdosilicate Method
		Biochemical Soluble Oxygen Demand	SMEWW-APHA-AWWA-WEF Part 5210 B, 24th Ed., 2023 (VALIDATED – MODIFIED) Biochemical Oxygen Demand (BOD). 5-Day BOD Test
		Nitrogen (Organic)	SMEWW-APHA-AWWA-WEF Part 4500-N_{org} B, 24th Ed., 2023 (VALIDATED – MODIFIED) Nitrogen (Organic). Macro-Kjeldahl Method
	Natural Water, Water for human use and consumption, and Waste Water	Soluble Chemical Oxygen Demand	SMEWW-APHA-AWWA-WEF Part 5220 D, 24th Ed., 2023 (VALIDATED – MODIFIED) Chemical Oxygen Demand (COD), Closed Reflux, Colorimetric Method
	Water for human use and consumption, Natural Water, Wastewater	Total metals and Dissolved Metals Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn, Hg, U, Th	EPA Method 200.8, Revision 5.4, 1994. Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma –Mass Spectrometry
		Total metals and Dissolved Metals Validated: Bi, B, Ca, Ce, Cs, Fe, Ga, Ge, Hf, K, La, Li, Lu, Mg, Na, Nb, P, Rb, Si, Sn, Sr, Ta, Te, Ti, W, Yb, Zr, In, Er, Y, Sm, Re, Nd, Eu, Gd, Ho, Pr	EPA Method 200.8, Revision 5.4, 1994. VALIDATED (Applied out of reach), 2020 Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma –Mass Spectrometry
	Saline Water	Detergents - Saam Surfactants Anionic Surfactants as MBAS	SMEWW-APHA-AWWA-WEF Part 5540 C, 24th Ed. 2023. Surfactants. Anionic Surfactants as MBAS

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Saline Water (cont'd.)	Nitrites / N-Nitrites (N-NO ₂)	SMEWW-APHA-AWWA-WEF Part 4500-NO₂- B, 24th Ed. 2023. Nitrogen (Nitrite). Colorimetric Method
		Anions Chloride, Sulfate Bromide	EPA 300.0 Rev. 2.1, 1993, (VALIDATED - Applied out of reach, 2022). Determination of inorganic anions by ion chromatography
		Fluoride	SMEWW-APHA-AWWA-WEF Part 4500-F⁻ C, 24th Ed. 2023 Fluoride. Ion-Selective Electrode Method
		Total Dissolved Solids	SMEWW-APHA-AWWA-WEF Part 2540 C, 24th Ed. 2023. Solids. Total Dissolved Solids Dried at 180°C
		Settleable Solids	SMEWW-APHA-AWWA-WEF Part 2540 F, 24th Ed. 2023. Solids. Settleable Solids
		Total Alkalinity, Carbonate Alkalinity and Bicarbonate Alkalinity	SMEWW-APHA-AWWA-WEF Part 2320 B, 24th Ed. 2023 Alkalinity. Titration Method
		Conductivity	SMEWW-APHA-AWWA-WEF Part 2510 B. 24th Ed. 2023 Conductivity. Laboratory Method
		Total metals and Dissolved Metals Validated: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn, Hg, U, Th, Bi, B, Ca, Ce, Cs, Fe, Ga, Ge, Hf, K, La, Li, Lu, Mg, Nb, P, Rb, Sn, Sr, Ta, Te, Ti, W, Yb, Zr, In, Er, Y, Sm, Re, Na, Eu, Gd, Ho, Pr	EPA Method 200.8, Revision 5.4, 1994. (VALIDATED) Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma –Mass Spectrometry
		Chemical Oxygen Demand (COD)	SMEWW-APHA-AWWA-WEF Part 5220 A,2; D, 24th Ed.,2023 Chemical Oxygen Demand (COD) Closed Reflux, Colorimetric Method. (Validated - Modified)

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Saline Water (cont'd.)	Nitrogen - Nitrates + Nitrogen - Nitrites (N-NO ₂ +N-NO ₃); Nitrates + Nitrites (NO ₃ +NO ₂)	EPA 300.0 Rev. 2.1, 1993, VALIDATED (Applied out of reach), 2023. Determination of inorganic anions by ion chromatography. 2023
	Process Water	Total metals and Dissolved Metals Validated: Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, Hg, U, Th, Bi, B, Ca, Ce, Cs, Fe, Ga, Ge, Hf, K, La, Li, Lu, Mg, Na, Nb, P, Rb, Si, Sn, Sr, Ta, Te, Ti, W, Yb, Zr, In, Er, Y, Sm, Re, Nd, Eu, Gd, Ho, Pr	EPA Method 200.8, Revision 5.4, 1994. (VALIDATED) Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma –Mass Spectrometry
	Processed water	Sulfide	SMEWW-APHA-AWWA-WEF Part 4500-S²⁻ D, 24th Ed. 2023 Sulfide. Methylene Blue Method.
		Nitrogen (Organic)	SMEWW-APHA-AWWA-WEF Part 4500-Norg B 24th Ed. 2023 (VALIDATED MODIFIED). Nitrogen (Organic). Macro - Kjeldahl Method.
	Processed water (cont'd.)	Chlorophyll A	SMEWW-APHA-AWWA-WEF Part 10150 B, 24th Ed. 2023 (VALIDATED - Applied out of Scope). Plankton. Chlorophyll.
	Ice	Metal Determination Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Se, Ag, Na, Sr, Tl, V, Zn	EPA 200.8 Rev. 5.4, 1994 Determination of trace elements in waters and wastes by Inductively Coupled Plasma - Mass Spectrometry
	Air	High Volume Metals (PTS, PM10, PM2.5): Al, As, B, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Ni, P, Pb, Sb, Se, Sn, Sr, Tl, Ti, V, Zn, Hg	EPA COMPENDIUM METHOD IO-3.4, June 1999. Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma (ICP) Spectroscopy

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Air (cont'd.)	High Volume Metals (PTS, PM10, PM2.5): Validated: SiO ₂	EPA COMPENDIUM METHOD IO-3.4 , June 1999. VALIDATED (Applied out of reach), 2018
		Low Volume Elements (PM10, PM2.5): Al, As, B, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Ni, P, Pb, Sb, Se, Sn, Sr, Ti, V, Zn, Hg, SiO ₂ .	EPA COMPENDIUM METHOD IO-3.4 , June 1999. VALIDATED (Applied out of reach), 2018 Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma (ICP) Spectroscopy
		NO (Nitric oxide / Nitrogen monoxide)	NTP ISO 7996:2019 Environmental air. Determination of the mass concentration of nitrogen oxides. Chemiluminescence method. 1 st Edition
		NO _x (Nitrogen oxides)	NTP ISO 7996:2019 Environmental air. Determination of the mass concentration of nitrogen oxides. Chemiluminescence method. 1 st Edition
		Total suspended particulate matter (PTS)	EPA CFR Title 40, Appendix B to Part 50, 2022 Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method)
		PTS Filters (High Volume)	EPA CFR Title 40, Appendix B to Part 50, 2022 (VALIDATED - Modified) Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method)
		Total Gaseous Mercury	NIOSH Method 6009, Issue 2, 1994 , VALIDATED (Applied out of reach), 2019 Mercury
	Emission / Stationary Sources	Nitrogen Oxides (NO _x as NO ₂)	EPA CFR Title 40, Appendix A-4 to Part 60, Method 7, 2022 Determination of Nitrogen Oxide Emissions from Stationary Sources.

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Emission / Stationary Sources (cont'd.)	Sulfur Oxides (SO _x) (including mists of H ₂ SO ₄ and SO ₃)	EPA CFR Title 40, Appendix A-4 to Part 60, METHOD 8, 2022. VALIDATED (Applied out of reach) Determination of Sulfuric Acid and Sulfur Dioxide Emission from Stationary Sources
		Metal Determination Sn, Ti, V, Fe	EPA CFR Title 40, Appendix A-8 to Part 60. Method 29, 2022 (VALIDATED-out of scope) Determination of Metals Emissions from Stationary Sources Metals
		Metals in Atmospheric Emissions: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, P, Pb, Sb, Se, Tl, Zn, Hg	EPA CFR Title 40, Appendix A-8 to Part 60, Method 29, 2022 VALIDATED (MODIFIED) Determination of Metals Emissions from Stationary Sources
	Emission	Ammonia	EPA METODO 207.1, 1994 / EPA CTM-027, 1997 Determination of ammonia emissions from stationary sources / Procedure for Collection and Analysis of Ammonia in Stationary Sources
		Hydrogen Chloride (HCl), Hydrogen Fluoride (HF), Br ₂ , HBr, Cl ₂	EPA CFR Title 40, Appendix A-8 to Part 60, Method 26, 2022 / EPA CFR Title 40, Appendix A-8 to Part 60, Method 26A, 2022 Determination of Hydrogen Halide and Halogen Emissions From Stationary Sources Non-Isokinetic Method / Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources Isokinetic Method
		Total Organic Carbon (TOC), VOC (calculated as Total Carbon)	EPA CFR Title 40, Appendix A-7 to Part 60, Method 25A, 2022 Determination of total gaseous organic concentration using a flame ionization analyzer
		CARBON DISULFIDE Carbon disulfide (CS ₂) Carbonyl sulfide (COS) Hydrogen sulfide (H ₂ S)	EPA CFR Title 40 Appendix A-5 to Part 60, Method 15, 2022 Determination of hydrogen sulfide, carbonyl sulfide, and carbon disulfide emissions from stationary sources

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Emission (cont'd.)	Flux	EPA CFR Title 40, Appendix A-1 to Part 60, Method 2C, 2022 Determination of gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube).
		HNO ₃	EPA CFR Title 40 Appendix A-6 to Part, 60 Method 18, 2022 / NIOSH 7907, 2014 Measurement of Gaseous Organic Compound Emissions by Gas Chromatography / VOLATILE ACIDS by Ion Chromatography (Hydrogen Chloride, Hydrogen Bromide, Nitric Acid)
		Humidity	EPA CFR Title 40, Appendix A-3 to Part 60, Method 4, 2022 Determination of Moisture Content in Stack Gases.
		Carbon Monoxide (CO)	EPA CFR Title 40, Appendix A-4 to Part 60, Method 10, 2022 Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure) NTP 900.010:2021 ATMOSPHERIC EMISSIONS MONITORING. Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
		Nitrogen Oxide (NOX)	EPA CFR 40, Appendix A-4 to Part 60, Method 7E, 2022 Determination of nitrogen oxides emissions from stationary sources (instrumental analyzer procedure)
		Sulfur Oxides (SO _x)	EPA CFR Title 40, Appendix A-4 to Part 60, Method 8, 2022 Determination of Sulfuric Acid and Sulfur Dioxide from stationary sources

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Emission (cont'd.)	Oxygen (O ₂) / Carbon Dioxide (CO ₂)	NTP 900.003:2021 MONITORING OF ATMOSPHERIC EMISSIONS. Gas analysis for the determination of molecular weight on a dry basis. 2nd Edition
		Hydrogen sulfide (H ₂ S)	CTM-022, 1995 / CTM-030, 1997 (VALIDATED-out of scope) 2023 Determination of Nitric Oxide, Nitrogen Dioxide and NO _x Emissions from Stationary Combustion Sources by Electrochemical Analyzer 1995 / Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired Engines, Boilers and Process Heaters using Portable Analyzers, 1997
	Air Ambient	Metals in PM 10 high volume Filters: Al, Sb, As, B, Ba, Be, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Si, Na, Ti, V, Zn	EPA IO [Inorganic] Compendium Method IO-3.5, 1999 Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma/Mass Spectrometry (ICP-MS)
		Metals in PM 2.5 low volume Filters: Al, Sb, As, B, Ba, Be, Cd, Ca, Co, Cu, Cr, Sn, Sr, P, Fe, Li, Mg, Mn, Hg, Mo, Ni, Ag, Pb, K, Se, Si, Na, Ti, V, Zn	EPA IO [Inorganic] Compendium Method IO-3.5, 1999 Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma/Mass Spectrometry (ICP-MS)
		Sedimentable Particulate Matter	ASTM D1739 – 98 (Reapproved 2017) Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter)

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Air Ambient (cont'd.)	High Volume Metals (PM2.5) Al, Sb, As, Ba, Be, Bi, Cd, Cr, Co, Cu, Pb, Mg, Mn, Mo, Ni, Se, Ag, Tl, Th, U, V, Zn, B, Ca, Fe, K, Li, Na, Si, Sn, Hg, P, Sr, Ti	EPA IO [Inorganic] Compendium Method IO3.5: VALIDATED 2022 Determination Of Metals In Ambient Particulate Matter Using Inductively Coupled Plasma (ICP) Spectroscopy
		Low Volume Metals (PM10) Al, Sb, As, Ba, Be, Bi, Cd, Cr, Co, Cu, Pb, Mg, Mn, Mo, Ni, Se, Ag, Tl, Th, U, V, Zn, B, Ca, Fe, K, Li, Na, Si, Sn, Hg, P, Sr, Ti	EPA IO [Inorganic] Compendium Method IO3.5: VALIDATED 2022 Determination Of Metals In Ambient Particulate Matter Using Inductively Coupled Plasma (ICP) Spectroscopy
	Air (Chemistry – Occupational Health & Safety)	Volatile Acids: Hydrogen Chloride, Hydrogen Bromide, Nitric Acid (HCl, HBr, HNO ₃)	NIOSH 7907, Issue 1, 2014. VOLATILE ACIDS by Ion Chromatography (Hydrogen Chloride, Hydrogen Bromide, Nitric Acid)
		Non-Volatile Acids Sulfuric Acid and Phosphoric Acid (H ₂ SO ₄ , H ₃ PO ₄)	NIOSH 7908 / Rev.2 2023 Non-Volatile Acids (Sulfuric Acid and Phosphoric Acid)
		Asbestos and Other Fibers	NIOSH 7400, Issue 3, 2019. Asbestos and Other Fibers by PCM
	Natural Water, Water for human use and consumption, Saline Water and Waste Water	Total Nitrogen Kjeldahl	SMEWW-APHA-AWWA-WEF Part 4500-Norg B / Part 4500-NH₃ D, 24th Ed. 2023 (VALIDATED - MODIFIED) Nitrogen (Organic) Macro Kjeldahl Method /Ammonia Selective Electrode Method
		Cyanogen Chloride	SMEWW-APHA-AWWA-WEF Part 4500-CN-J,F 24th Ed. 2023 (VALIDATED - MODIFIED) Cyanogen Chloride. Cyanide-Selective Electrode Method
		Formaldehyde	ASTM D6303-98 (VALIDATED - MODIFIED) Standard Test Method for Formaldehyde in Water

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field collection + Lab Testing) (cont'd.)	Emission / Stationary Sources	NOx, NO, NO2, CO, O2	CTM-034 / 1999 ICAC Test Method for Periodic Monitoring. Test Method - Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure)
		CO	EPA CFR Title 40, Appendix A-4 to Part 60, Method 10, 2022 Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure)
	Air	Sulfur Oxides SOX (SO ₂ , SO ₃)	EPA CFR Title 40, Appendix A-4 to Part 60, METHOD 8, 2022. Validated (Applied out of reach). 2025 Determination of Sulfuric Acid and Sulfur Dioxide Emission from Stationary Sources
ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing)	Soils and Sediments	Changeable Acidity	Official Mexican Standard, NOM-021-RECNAT-2000, AS-33 (VALIDATED - Applied out of reach) 2022 Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Changeable Acidity
		Changeable Aluminum	Official Mexican Standard, NOM-021-RECNAT-2000, AS-33 (VALIDATED - Applied out of reach) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Changeable Aluminum

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils and Sediments (cont'd.)	Changeable Hydrogen	Official Mexican Standard, NOM-021-RECNAT-2000, AS-33 (VALIDATED - Applied out of reach) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Exchangeable Hydrogen
		Bicarbonates in EPS (Saturated Pasta Extract)	Official Mexican Standard, NOM-021-RECNAT-2000, AS-16/AS-17/AS-20 (VALIDATED - Applied out of reach) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Bicarbonates in EPS
		Carbonates	Official Mexican Standard, NOM-021-RECNAT-2000, AS-29 (VALIDATED - Applied out of reach) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Carbonates
		Carbonates in EPS (Saturated Pasta Extract)	Official Mexican Standard, NOM-021-RECNAT-2000, AS-16/AS-17/AS-20 (VALIDATED - Applied out of reach) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Carbonates in EPS
		WAD (Weak Acid Dissociable) Cyanide	EPA Method 9013A, Rev 2 – July 2014 Cyanide Extraction Procedure for Solids and Oils SMEWW-APHA-AWWA-WEF Part 4500-CN⁻ F, I, 24th Ed., 2023 F. Cyanide-Ion Selective Electrode Method I. Weak Acid Dissociable Cyanide.

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils and Sediments (cont'd.)	Textural Class: Clay, Sand, Silt	Official Mexican Standard, NOM-021-RECNAT-2000, AS-09 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Textural Class
		Metals in EPS: B, Ca, Cu, Mg, Mn, K, Na, Zn, P, Fe	Official Mexican Standard, NOM-021-RECNAT-2000, AS-16/AS-17/AS-20 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Soluble Metals in EPS
		Changeable Bases: Changeable Calcium Changeable Potassium Changeable Magnesium Changeable Sodium	Official Mexican Standard, NOM-021-RECNAT-2000, AS-12 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Exchangeable Bases
		Bases Available: Available Calcium Available Potassium Available Magnesium Available Sodium	Official Mexican Standard, NOM-021-RECNAT-2000, AS-12 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Available Bases
		Cation Exchange Capacity (C.I.C)	Official Mexican Standard, NOM-021-RECNAT-2000, AS-12 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Cation Exchange Capacity

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils and Sediments (cont'd.)	Anions in EPS: Chloride Nitrate Sulfate Phosphate	Official Mexican Standard, NOM-021-RECNAT-2000, AS-16/AS-17/AS-20 / EPA 300.0 Rev. 2.1, 1993 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Soluble Anions in EPS / Determination of Inorganic Anions by Ion Chromatography
		Olsen Available Phosphorus	Official Mexican Standard, NOM-021-RECNAT-2000, AS-10 (VALIDATED - Applied out of reach) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Available Phosphorus Olsen
		Micronutrients Cu (DTPA), Fe (DTPA) Mn (DTPA) Zn (DTPA)	Official Mexican Standard, NOM-021-RECNAT-2000, AS-14 (VALIDATED - MODIFIED) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Determination of Micronutrients
		pH In EPS	NOM-021-RECNAT-2000, AS-16/AS-17 / AS-02 (VALIDATED MODIFIED). Official Mexican Standard, which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - pH in EPS. 2023
		Electrical Conductivity in EPS	NOM-021-RECNAT-2000, AS-16/AS-17 / AS-18 (VALIDATED MODIFIED). Official Mexican Standard, which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils and Sediments (cont'd.)		analysis - Electrical Conductivity in EPS. 2023
		Available Boron	NOM-021-RECNAT-2000, AS-15 (VALIDATED MODIFIED). Official Mexican Standard, which establishes the specifications of fertility, salinity and classification of soils. Studies, Sampling & Analysis - Boron Available. 2023
	Soils, Sediment, Rock Mining tailings Mining waste Mineral sample	Fizz Rating (Degree of Effervescence)	MEND Report 1.20.1, Chapter 13, Item 13.3.2, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials
		pH in Paste	MEND Report 1.20.1, Chapter 13, Item 13.3.2, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials
		Acid Potential (AP))	MEND Report 1.21.1, Chapter 13, Item 13.3.2, December 2009 / Chapter 15, item 15.6, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials
		Lawrence Neutralization Potential	MEND Report 1.20.1, Chapter 13, Item 13.3.3, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials
		Sobek Neutralization Potential	MEND Report 1.20.1, Chapter 13, Item 13.3.2, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials
		Net Neutralization Potential (NNP)	MEND Report 1.20.1, Chapter 13, Item 13.3.2, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils, Sediment, Rock Mining tailings Mining waste Mineral sample (cont'd.)	Ratio de Potencial de Neutralización (NP/PA)	MEND Report 1.21.1, Chapter 13, Item 13.3.2, December 2009 / Chapter 15, item 15.6, December 2009 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials
		4 Acids (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sn, Sr, Ti, V, W, Zn)	MVAL-GEO-002 VALIDATED MODIFIED 2022 Digestion 4 Acids, Metals in Solid Samples by ICP-OES
		Sulfur Sulfate	ASTM E 1915-20 Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials for Carbon, Sulfur and acid-Base Characteristics
		Total Sulfur	ASTM E 1915-20 Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials for Carbon, Sulfur and acid-Base Characteristics
		Dold Sequential Extraction (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, V, Zn)	Journal of Geochemical Exploration 80 (2003) 55–68 (VALIDATED - MODIFIED), 2022 Speciation of the most soluble phases in a sequential extraction procedure adapted for geochemical studies of copper sulfide mine waste
		Sequential Tessier Extraction Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, V, Zn	Analytical Chemistry vol.51, 1979 Sequential extraction Procedure for the speciation of particulate trace metals

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils, Sediment, Rock Mining tailings Mining waste Mineral sample (cont'd.)	Leaching Test (Metals) SPLP Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn	EPA 1312, 1994 (VALIDATED - MODIFIED), 2022 Synthetic precipitation leaching procedure - SPLP
		Shake Flask Test, Solubility Testing (SFT) (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, U, V, Zn)	MEND Report 1.20.1, Chapter 11, Item 11.5 December 2009 / EPA 200.7 Rev. 4.4, 1994 (VALIDATED - Applied out of reach), 2022 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials / Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry
		Shake Flask Test, Solubility Testing (SFT) Chlorides, Nitrates, Nitrites, Phosphates, Fluorides, Sulfate	MEND Report 1.20.1, Chapter 11, Item 11.5 December 2009/ EPA 300.0 Rev. 2.1, 1993 Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials / Determination of Inorganic Anions by Ion Chromatography
		Total Sulfide	ASTM E 1915-20 Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials for Carbon, Sulfur and acid-Base Characteristics
	Soils Sediment Rock Mining tailings Mining waste	Test NAG: pH Nag, Nag pH 4.5 Nag pH 7	MEND Report 1.20.1, Chapter 15, Item 15.2.1, December 2009. Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials. 2009
	Limestone Quicklime Hydrated lime	Pyritic Sulfur	ASTM E 1915-20 (VALIDATED - MODIFIED), 2022 Standard Test Methods for Analysis of Metal Bearing Ores and Related Materials by Combustion Infrared-Absorption Spectrometry

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils	pH (Extract 1:1)	MVAL-AGR-01:2020 VALIDATED Determination of pH
		Conductivity (Extract 1:1)	MVAL-AGR-02:2020 VALIDATED Determination of Conductivity.
		Limestone Active	MVAL-AGR-03:2020 VALIDATED Determination of Active Limestone. Active
	Soils Sediment Vegetal material Organic Fertilizer Inorganic Fertilizer	Total Nitrogen	ISO 16634-2: 2016 (VALIDATED - MODIFIED) 2022 Determination of Total Nitrogen Content by Combustion according to the Dumas Principle
	Natural water	Sodium Absorption Ratio (SAR)	Sodium Absorption Ratio (SAR) Item 2 Classification for Agricultural Use, ANNEX IV, General Directorate of Natural Resources Studies and Projects, INRENA, 1996
	Natural Water, Irrigation Water	Metals ICP-OES (B, Ca, Cu, Fe, K, Mg, Mn, Mo, Na, P, S, Zn)	EPA Method 200.7 Rev. 4.4 (VALIDATED MODIFIED). Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry. 2023
	Toys, Toys parts and Desktop tools based on: -Glue Bar, Crystal, Ceramic, Metal Materials -Polymer Material and similar, Including Rolled or Reinforced Textiles or Not, -Compressed Paint Pad Materials, Materials intended to Leave a trace or Similar in Solid Form, -Flexible modeling materials, including	Metals: Al, As, Ba, B, Cd, Co, Cu, Mn, Ni, Pb, Sb, Se, Sn, Sr, Hg, Zn	UNE-EN 71-3:2020+A1:2021 Safety of toys - Part 3: Migration of certain elements

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	modeling clays and plaster, -Other colored materials or not in the mass, -Paper and Cardboard -Liquid Paints including finger paints, Varnishes, Lacquers, Liquid Ink and Liquid materials, -Paint coatings, Varnishes, Lacquers, Printing inks, -Polymers and similar coatings, -Natural or Synthetic textiles	Metals: Al, As, Ba, B, Cd, Co, Cu, Mn, Ni, Pb, Sb, Se, Sn, Sr, Hg, Zn (cont'd.)	UNE-EN 71-3:2020+A1:2021 Safety of toys - Part 3: Migration of certain elements (cont'd.)
	Emissions - Environmental Filters	Determination of Metals Emissions from Stationery Sources: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, P, Pb, Sb, Se, Ti, Zn, Fe, V.	EPA CFR Title 40, Appendix A-8 to Part 60. Method 29, 2022 (VALIDATED MODIFIED) Determination of Metals Emissions from Stationery Sources
	Air – Environmental Filters	PTS, PM10 and PM2.5 High Volume filter metals: Ag, Al, As, B, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, V, Zn, Hg, SiO ₂ .	EPA COMPENDIUM METHOD IO-3.4, June 1999. VALIDATED (MODIFIED), 2018. Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma (ICP) Spectroscopy
		PM10 and PM2.5 Low Volume filter metals: Ag, Al, As, B, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, V, Zn, Hg, SiO ₂	EPA COMPENDIUM METHOD IO-3.4, June 1999. VALIDATED (MODIFIED), 2018. Determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma (ICP) Spectroscopy

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Air – Environmental Filters (cont'd.)	Anions in PM10 and PM2.5 High volume: Chloride (Cl ⁻) Nitrite (NO ₂ ⁻) Nitrate (NO ₃ ⁻) Sulfate (SO ₄ ²⁻) Phosphate (PO ₄ ³⁻) Bromide (Br ⁻)	EPA Method Compendium Method IO-3.1, June 1999/ EPA 300.0 Rev. 2.1, 1993. (VALIDATED – MODIFIED), 2020 EPA Method Compendium Method IO-3.1. Selection, Preparation and Extraction of Filter Material / Determination of inorganic anions by ion chromatography 2020
		Anions in PM10 and PM2.5 Low volume: Chloride (Cl ⁻) Nitrite (NO ₂ ⁻) Nitrate (NO ₃ ⁻) Sulfate (SO ₄ ²⁻) Phosphate (PO ₄ ³⁻) Bromide (Br ⁻)	EPA Method Compendium Method IO-3.1, June 1999/ EPA 300.0 Rev. 2.1, 1993. (VALIDATED – MODIFIED), 2020 EPA Method Compendium Method IO-3.1. Selection, Preparation and Extraction of Filter Material / Determination of inorganic anions by ion chromatography 2020
		Cations in PM10 and PM2.5 Low volume: Lithium (Li ⁺) Sodium (Na ⁺) Potassium (K ⁺) Calcium (Ca ²⁺) Magnesium (Mg ²⁺) Ammonium (NH ₄ ⁺)	EPA Method Compendium Method IO-3.1, June 1999/ ASTM D6919-17 (VALIDATED – MODIFIED). 2020 EPA Method Compendium Method IO-3.1. Selection, Preparation and Extraction of Filter Material / Standard Test Method for determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography
		Determination of Metals in Settleable Powder: VALIDATED Applied out of scope: Al, Sb, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Mo, K, Ag, Tl, V, As, Bi, B, Ce, Sn, Sr, P, Li, Se, Si(por calculo), Na, SiO ₂ , Ti, U, Zn	EPA Method 3050B, 1996/ EPA Method 200.7 Rev. 4.4, 1994 (VALIDATED - Applied Out of Scope), 2022 Acid Digestion of Sediments, Sludges, and Solis / Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry.

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Air – Environmental Filters (cont'd.)	Metals in Low Volume - Filter (PM10, PM2.5) VALIDATED Applied out of scope: Al, Sb, As, Ba, Be, Bi, Cd, Cr, Co, Cu, Pb, Mg, Mn, Mo, Ni, Se, Ag, Tl, Th, U, V, Zn, B, Ca, Fe, K, Li, Na, Si, Sn, Hg, P, Sr, Ti	EPA IO [Inorganic] Compendium Method IO3.5, 1999 (VALIDATED - Applied Out of Scope), 2022 Determination Of Metals In Ambient Particulate Matter Using Inductively Coupled Plasma (ICP) Spectroscopy
		Metals in High Volume Filter (PM10, PM2.5) VALIDATED Applied out of scope: Al, Sb, As, Ba, Be, Bi, Cd, Cr, Co, Cu, Pb, Mg, Mn, Mo, Ni, Se, Ag, Tl, Th, U, V, Zn, B, Ca, Fe, K, Li, Na, Si, Sn, Hg, P, Sr, Ti	EPA IO [Inorganic] Compendium Method IO3.5, 1999 (VALIDATED - Applied Out of Scope), 2022 Determination Of Metals In Ambient Particulate Matter Using Inductively Coupled Plasma (ICP) Spectroscopy
	Pesticides (Herbicides, Nematicides, Fungicides, Insecticides)	Total Metals (As, Cd, Cr, Ni, Hg, Pb)	EPA Method 3050B rev.2, 1996 / EPA METHOD 6020B, Rev. 2, 2014 (VALIDATED MODIFIED), 2023. Acid Digestion of Sediments, Sludges, and Solis / Determination of Metals and Trace Elements in Inductively Coupled Plasma - Mass Spectrometry, part of Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.
	Activated carbon	Apparent density	ASTM D2854-09(2019). Standard Test Methods for apparent density of activated carbon.
		Humidity	ASTM D2867-17, 2017. Standard Test Methods for Moisture in Activated Carbon.
		pH	ASTM D3838-23(2023). Standard Test Method for pH of Activated Carbon.
		Total Ashes	ASTM D2866-11(2018). Standard Test Method for Total Ash Content of Activated Carbon.

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Activated carbon (cont'd.)	Iodine number	ASTM D4607-94(2011) . Standard Test Method for Determination of Iodine Number of Activated Carbon. 2014
	Soils (Leached Water) Sediment (Leached Water) Rock (Leach Water) Mining Waste (Leached Water) Mine Tailings (Leached Water)	pH	ASTM D5744-18 2018/ SMEWW-APHA- AWWA-WEF. Part 4500 H+ B. 24th Edition 2023 . Standard Test Method for Laboratory Weathering of Solid Materials Using a Modified Humidity Cell / pH Value. Electrometric Method.
		Electric conductivity	ASTM D 5744-18 2018/ SMEWW-APHA-AWWA-WEF Part 2510 B. 24th Ed. 2023 Standard Test Method for Laboratory Weathering of Solid Materials Using a Humidity Cell / Conductivity. Laboratory Method.
		Carbonates	ASTM D 5744-18 2018/ SMEWW-APHA-AWWA-WEF Part 2320 B, 24th Ed. 2023 Standard Test Method for Laboratory Weathering of Solid Materials Using a Modified Humidity Cell / Alkalinity. Titration Method.
		Bicarbonates	ASTM D 5744-18 2018/ SMEWW-APHA-AWWA-WEF Part 2320 B, 24th Ed. 2023 Standard Test Method for Laboratory Weathering of Solid Materials Using a Modified Humidity Cell / Alkalinity. Titration Method.
		Anions (Chloride, Nitrate, Nitrite, Sulfate, Phosphate, Fluoride)	ASTM D 5744-18 / EPA 300.0 Rev. 2.1 . Standard Test Method for Laboratory Weathering of Solid Materials Using a Modified Humidity Cell / Determination of inorganic anions by ion chromatography. 2018 / 1993

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Soils (Leached Water) Sediment (Leached Water) Rock (Leach Water) Mining Waste (Leached Water) Mine Tailings (Leached Water) (cont'd.)	ICP-OES Metals (Ag, Al, As, B, Ba, Be, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sn, Sr, Ti, V, Zn, Hg)	ASTM D 5744-18 / EPA Method 200.7 Rev. 4.4 (VALIDATED MODIFIED) 2023. Standard Test Method for Laboratory Weathering of Solid Materials Using a Modified Humidity Cell / Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry.
	Solid waste Liquid waste Soils	pH corrosivity	EPA Method 9040C. Rev.3. pH electrometric measurement. 2004
	Sludge Solid waste Soils	pH corrosivity	EPA Method 9045D. Rev.4. Soil and Waste pH. 2004
	Soils Sediments Sludge	Electric conductivity	DIN ISO 11265:1997-06 (VALIDATED MODIFIED) 2023 Soil quality — Determination of the specific electrical conductivity
	Soils Sediments Sludge Organic Fertilizer	Moisture	NOM-021-RECNAT-2000, AS 05 (VALIDATED-Out of scope), 2023. Official Mexican Standard, which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Moisture Determination.
	Sludge	Sludge Volume Index (IVL)	SMEWW-APHA-AWWA-WEF Part 2710 D, 24th Ed. 2023. Sludge Volume Index
	Hydrated Lime, Quick Lime, Limestone, Raw Kiln Feed Flour for the manufacture of cement, Raw material for the manufacture of Lime	Pyritic Sulfur: Total Sulfur, Soluble Sulfur, Pyritic Sulfur	ASTM C25-19 items 23 and 24 (VALIDATED-Out of scope). Standard Test Methods for Chemical Analysis of Limestone, Quicklime and Hydrated Lime. 2023
ENVIRONMENTAL CHEMISTRY - INORGANIC (Field measurement)	Natural Water, Water for human use and consumption, Saline Water, Process Water and Waste Water	Floatable Materials	NMX-AA-006-SCFI-2010- Water analysis Determination of floating matter in wastewater and treated wastewater, Test method

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field measurement) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water, Process Water and Waste Water (cont'd.)	Flow	UNE-EN ISO 748:2023 Hydrometry - Measurement of liquid flow in open channels – Velocity area methods using point velocity measurements (ISO 748:2021)
		Turbidity	SMEWW-APHA-AWWA-WEF Part 2130 B. 24th Ed., 2023 Turbidity. Nephelometric Method
		Settleable Solids	SMEWW-APHA-AWWA-WEF Part 2540 F, 24th Ed., 2023 Solids. Settleable Solids
	Residual water, Natural water, Processed water	Temperature Rise	SMEWW-APHA-AWWA-WEF Part 4500-H+ B. 24th Ed. 2023. pH Value. Electrometric Method. Temperature Measurement Method Comparing the Increase to the Multi-Year Monthly Average of the Evaluated Area.
	Residual water; Processed water	pH	SMEWW-APHA-AWWA-WEF Part 4500-H+ B. 24th Ed. 2023 pH Value. Electrometric Method
		Temperature	SMEWW-APHA-AWWA-WEF Part 2550 B. 24th Ed. 2023 Temperature. Laboratory and Field Methods
	Natural Water, Residual Water, Water for Human Use and Consumption, Saline Water, Process Water	Transparency	Method EPA 841-B-97-003. Determination of Light Transmittance / Secchi Disc Depth (EPA 841-B-97-003 Method). 1997
		Float Flow	UNE-EN- ISO 748:2009 (VALIDATED-Out of scope) 2023 Liquid Flow Measurement in Open Channels Using Flow Meters or Floats.
	Processed water	Conductivity	SMEWW-APHA-AWWA-WEF Part 2510 B. 24rd Ed. 2023 Conductivity. Laboratory Method
		Dissolved oxygen	SMEWW-APHA-AWWA-WEF Part 4500-O H. 24rd Ed. 2023 Oxygen (Dissolved). Optical-Probe Method
	Water for Human Use and Consumption Process Water	Salinity	SMEWW-APHA-AWWA-WEF Part 2520 B. 24rd Ed. 2023 Salinity. Electrical Conductivity Method

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field measurement) (cont'd.)	Saline Water, Process Water	Residual Chlorine or Free Residual Chlorine	SMEWW-APHA-AWWA-WEF Part 4500 Cl.G 24th Ed. 2023 (VALIDATED). Chlorine (Residual). DPD Colorimetric Method - Validated
	Process Water Wastewater	Chloramine	SMEWW-APHA-AWWA-WEF-Part 4500-Cl G, 24rd Ed. 2023 (VALIDATED). Chlorine (Residual). DPD Colorimetric Method - Validated.
	Emissions	Speed, Flow and Temperature in Emissions	EPA Method 2; 2017. Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
			NTP 900.002:2021), 2^a Ed. 2021. Monitoring of Atmospheric Emissions. Determination of velocity and volumetric flow in flue gases (Type S Pitot Tube)
		Determination of Moisture Content in Flue Gases	EPA Method 4; 2017. Determination of Moisture Content in Stack Gases.
	Natural water	Water level (phreatic level)	NTP 900.004:2021, 2^a Ed. 2021 Monitoring of Atmospheric Emissions. Determination of moisture content in flue gases.
			EPA Method 9; 2017. Visual Determination of the Opacity of Emissions From Stationary Sources
	Natural water	Piezometer depth	ISO 21413:2005, Section 4 – Water-level measurement using an electric tape Manual methods for the measurement of a groundwater level in a well
	Natural water	Piezometer depth	ISO 21413:2005 (Validated-Modified), 2025. Manual methods for the measurement of a groundwater level in a well

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ENVIRONMENTAL CHEMISTRY - INORGANIC (Field measurement) (cont'd.)	Emissions	Nitrogen oxides (NOx)	EPA CFR Title 40, Appendix A-7 to Part 60, Method 20, 2022 Determination of nitrogen oxides, sulfur dioxide, and diluent emissions from stationary gas turbines
ENVIRONMENTAL CLIMATOLOGY (Field Measurement)	Atmosphere	Meteorological Parameters: Environmental Temperature, Relative Humidity, Environmental Pressure, Wind Speed, Wind Direction (Wind Rose)	ASTM D5741-96 (2023) Validated - Applied out of scope Standard Practice for Characterizing Surface Wind Using a Wind Vane and Rotating Anemometer
	Air	Meteorological Parameters (Wind Speed, Wind Direction, Temperature, Atmospheric Pressure, Relative Humidity, Precipitation, Solar Radiation)	EPA-454/B-08-002 March 2008 (VALIDATED) Chapter 6. Measurement of precipitation. Quality Assurance Handbook for Air Pollution Measurement Systems. Volume IV: Meteorological Measurements Version 2.0 (Final)
ENVIRONMENTAL MICROBIOLOGY (Field collection + Lab Testing)	Natural Water, Water for human use and consumption, Saline Water and Waste Water	Total Coliform (NMP)	SMEWW-APHA-AWWA-WEF Part 9221 B, 24th Ed. 2023. Multiple-Tube Fermentation Technique for Members of the Coliform Group. Standard Total Coliform Fermentation Technique
		Fecal Coliform (Thermotolerant) (NMP)	SMEWW-APHA-AWWA-WEF Part 9221 F.2, 24th Ed. 2023. Multiple-Tube Fermentation Technique for Members of the Coliform Group. Escherichia coli Procedure Using Fluorogenic Substrate. Simultaneous Determination of Thermotolerant Coliforms and E. Coli
		Escherichia Coli (NMP)	SMEWW-APHA-AWWA-WEF Part 9221 F.2, 24th Ed. 2023 Multiple-Tube Fermentation Technique for Members of the Coliform Group. Escherichia coli Procedure Using Fluorogenic Substrate. Simultaneous Determination of Thermotolerant Coliforms and E.coli.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL MICROBIOLOGY (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water and Waste Water (cont'd.)	Heterotrophic (UFC/mL)	SMEWW-APHA-AWWA-WEF Part 9215 B, 24th Ed. 2023 Heterotrophic Plate Count. Pour Plate Count Method
		Virus (Somatic Coliphages)	SMEWW-APHA-AWWA-WEF Part 9224 B, 24th Ed. 2023 Detection of Coliphages. Somatic Coliphages Assay
		Fecal Enterococcus or Intestinal Enterococcus (NMP)	SMEWW-APHA-AWWA-WEF Part 9230 B, 24th Ed. 2023 Fecal Enterococci. Multiple-Tube Technique.
		Vibrio cholerae (Detection)	SMEWW-APHA-AWWA-WEF Part 9278A, B Item 1, 2, d.1 (exception test toxin and serogroup O139), 5a, 24thEd. 2023 Detection of Pathogenic Bacteria. Vibrio
		Salmonella spp (Detection)	ISO 19250, 1st Ed 2010 Water Quality. Detection of Salmonella spp.
	Natural Water, Water for human use and consumption, and Waste Water	Helminth eggs	MVAL-LAB-24, VALIDATED, 2018 Quantification and Identification of Helminth Eggs in Water
		Pathogenic Protozoal Cysts / Oocysts	MVAL-LAB-31, VALIDATED, 2019 Quantification and Identification of Cysts and Oocysts of Pathogenic Protozoa in Water
		Larvae (Nematodes)	MVAL-LAB-32, VALIDATED, 2019 Quantification and Identification of Helminth Larvae (Nematodes) in Water.
		Giardia sp / Cryptosporidium sp	MVAL-LAB-33, VALIDATED, 2019 Identification of Giardia sp and Cryptosporidium sp in Water.
		Parasitic Forms	MVAL-LAB-34, VALIDATED, 2019 Quantification and Identification of Parasitic Forms in Water.
	Saline Water / Natural Water	Macrophytes in water	SMEWW Part 10400 D. 2 a, 3 e, 24th Ed., 2023 Macrophytes
	Saline water	Helminth Eggs in water	MVAL-LAB-48, 2021 (VALIDATED) Quantification and Identification of helminth eggs in saline water

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ENVIRONMENTAL MICROBIOLOGY (Field collection + Lab Testing) (cont'd.)	Soils, Sediment and Sludge	Fecal Coliforms (Thermotolerant)	SMEWW-APHA-AWWA-WEF Part 9221 F.2, 24th Ed. 2023. Multiple-Tube Fermentation Technique for Members of the Coliform Group. Escherichia coli Procedure Using Fluorogenic Substrate. Simultaneous Determination of Thermotolerant Coliforms and E.coli.
		Total coliforms	SMEWW-APHA-AWWA-WEF Part 9221 B, 24th Ed. 2023. Multiple-Tube Fermentation Technique for Members of the Coliform Group. Standard Total Coliform Fermentation Technique.
		Escherichia coli	SMEWW-APHA-AWWA-WEF Part 9221 F.2, 24th Ed. 2023. Multiple-Tube Fermentation Technique for Members of the Coliform Group. Escherichia coli Procedure Using Fluorogenic Substrate. Simultaneous Determination of Thermotolerant Coliforms and E.coli.
ENVIRONMENTAL BIOLOGY (Field collection + Lab Testing)	Biological Tissue	Boron and Tin	EPA Method 200.3, 1991 "Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements in Biological Tissues (VALIDATED-Applied Out of Scope)" EPA Method 200.7, Rev. 4.4, 1994 "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry"
	Animal Tissue Plant Tissue	Total Cyanide	EPA Method 9013A-Rev.2 / SMEWW-APHA-AWWA-WEF Part 4500-CN⁻ F, 24th Ed 2023 Cyanide extraction procedure for solids and oils / Cyanide - Selective Electrode Method
	Wastewater	Quantitative Phytoplankton	SMEWW-APHA-AWWA-WEF Part 10200 F items: F.2.a, F.2.c.1, 24th Ed. 2023. Plankton. Phytoplankton Counting Techniques

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ENVIRONMENTAL BIOLOGY (Field collection + Lab Testing) (cont'd.)	Wastewater (cont'd.)	Quantitative Zooplankton	SMEWW-APHA-AWWA-WEF Part 10200 G, 24th Ed. 2023. Plankton. Zooplankton Counting Techniques
		Free living organisms (Algae, protozoa, copepods, rotifers and nematodes)	SMEWW-APHA-AWWA-WEF Part 10200 B. 2. a, C.1, F. 2. a, c, 24th Edition / SMEWW-APHA-AWWA-WEF Part 10200 B. 2. b, C.1, G. 24th Ed., 2023 Plankton. Sample collection. Concentration Techniques. Phytoplankton Counting Techniques / Plankton. Sample collection. Concentration Techniques. Zooplankton Counting Techniques
	Saline water	Quantitative phytoplankton	UNE-EN 15204:2007 / SMEWW-APHA-AWWA-WEF Part 10200 B. 2. a, C. 2, F. 2. a, c. 24th Ed., 2023 Water quality. Guide for counting phytoplankton by inverted microscopy (Utermöhl technique) / Plankton. Sample collection. Concentration Techniques. Phytoplankton Counting Techniques.
		Qualitative phytoplankton	EPA Method 670/4-73-001, 1973 Biological field and laboratory methods for measuring the quality of surface waters and effluents. PLANKTON. 2.2 Phytoplankton and 4.1.1 Qualitative Analysis of phytoplankton.
		Quantitative zooplankton	SMEWW-APHA-AWWA-WEF. Part 10200 B. 2. b. C. 1, G. 24th Ed., 2023 Plankton. Sample collection. Concentration Techniques. Zooplankton Counting Techniques.
		Qualitative zooplankton	EPA Method 670/4-73-001, 1973 Biological field and laboratory methods for measuring the quality of surface waters and effluents. PLANKTON. 2.3 Zooplankton. 4.2.1 Qualitative Analysis of Zooplankton.

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ENVIRONMENTAL BIOLOGY (Field collection + Lab Testing) (cont'd.)	Natural water and Saline water	Nekton	SMEWW-APHA-AWWA-WEF Part 10600 B.3, C y D. 24th Ed. 2023. Fishes, collection and observation Method, sample preservation and Analysis of collections
	Natural water	Giardia duodenalis	MVAL-LAB-72 (Validated) 2023 Detection of Giardia duodenalis
	Natural water, saline water, water for human use and consumption, wastewater	Intestinal nematodes (species Ascaris, Trichuris, and hookworms)	MVAL-LAB-75 (Validated) 2024 Identification and Quantification of Intestinal Nematodes (Ascaris, Trichuris, and Ancylostoma) in Water
	Saline water	Parasitic forms	MVAL-LAB-76 (Validated) 2025 Quantification and Identification of Parasitic Forms in Water
	Water for human use and consumption, natural water	FREE-LIVING ORGANISMS – Phytoplankton (Algae) + Zooplankton (Protozoa, copepods, rotifers and nematodes)	SMEWW-APHA-AWWA-WEF, 24th Ed. Part 10200 C.1.3, D.3. a, F.2.c.1 / Part 10200 G (Validated-Modified) 2025 Plankton. Concentration Techniques. Phytoplankton Counting Techniques / Plankton. Zooplankton. Counting Techniques
ENVIRONMENTAL BIOLOGY (Lab Testing)	Saline water / Natural Water	Periphyton Quantitative	SMEWW-APHA-AWWA-WEF Part 10300 C, items: 1 y 2, 24th Ed. 2023. / SMEWW-APHA-AWWA-WEF Part 10900, 24th Ed. 2023. Sample Analysis / Identification of Aquatic Organisms
		Periphyton Qualitative	SMEWW-APHA-AWWA-WEF Part 10300 C, items: 1 y 2, 24th Ed. 2023. / SMEWW-APHA-AWWA-WEF Part 10900, 24th Ed. 2023. Sample Analysis / Identification of Aquatic Organisms
ENVIRONMENTAL SENSORY (Field collection + Lab Testing)	Water for human use and consumption	Odor	ISO 4121:2003 Sensory analysis - Guidelines for the use of quantitative response scales
		Flavor	SMEWW-APHA-AWWA-WEF Part 2160 C, 24th Ed. 2023 Flavor Rating Assessment (FRA)

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ENVIRONMENTAL SENSORY (Field collection + Lab Testing) (cont'd.)	Saline water	Odor	NTP-ISO 4121:2008 (revised in 2019) Sensory analysis - Guidelines for the use of quantitative response scales
	Soils, Sediment and Sludge	Color	Official Mexican Standard, NOM-021-RECNAT-2000, AS-09 (VALIDATED - Out of Scope) Which establishes the specifications of fertility, salinity and classification of soils. Studies, sampling and analysis - Color Determination
		Odor	MVAL-AGR-015 (VALIDATED - MODIFIED), 2022 FAO Manual (Soil Classification)
ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing)	Sediments, Sludges and Soils	Total Petroleum Hydrocarbons (C5-C10)	EPA Method 8015 C, Rev. 3, 2007/EPA 5021 A, Rev. 2, 2014. VALIDATED (Applied out of reach), 2020. Nonhalogenated Organics by Gas Chromatography
		Total Petroleum Hydrocarbons (C6-C40)	EPA Method 8015C, Rev.3, 2007. Nonhalogenated Organics by Gas Chromatography
		Total Petroleum Hydrocarbons (C10-C40)	EPA Method 8015C, Rev.3, 2007 Nonhalogenated Organics by Gas Chromatography
		Pristane	EPA Method 8015 C, Rev. 3 (VALIDATED-applied out of scope) Nonhalogenated Organics by Gas Chromatography
		Phytane	EPA Method 8015 C, Rev. 3 Nonhalogenated Organics by Gas Chromatography (VALIDATED-applied out of scope)
		Organochlorine and Organophosphate Pesticides	EPA METHOD 8270E (SW846) Rev. 06, 2018 Semivolatile Organic Compounds By Gas Chromatography/ Mass Spectrometry (GC/MS)
		Isodrin, Malathion and Parathion	

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Emission / Stationary Sources	Volatile Organic Compounds (VOCs) Ethylbenzene, Styrene, Cis-1,3-Dichloropropene, Trans-1,3-Dichloropropene, (m + p) Xylene, 1,2-Dichloroethane, Vinyl Acetate, Toluene, Chlorobenzene, Chlorodibromomethane, Tetrachloroethane, Cis-1,2-Dichloroethane, Benzene, Trans-1,2-Dichloroethane, Carbon tetrachloride, Acetone, Chloroform, 1,1,1-Trichloroethane, Toluene, Bromochloromethane, Vinyl Chloride, Carbon Disulfide, Bromoform, Bromodichloromethane, 1,1-Dichloroethane, 1,1,2-Trichlorotrifluoroethane, 1,2-Dichloropropane, 1,1,2-Trichloroethane, Trichloroethane, 1,1,2,2-Tetrachloroethane, o-Xylene, Trimethylamine, Acrylonitrile, Methyl isobutyl ketone (MIBK), Methyl butyl ketone (2-Hexanone), Methyl ethyl ketone (2-Butanone), Total Xylenes	EPA CFR Title 40, Appendix A-6 to Part 60, Method 18, 2022 Measurement of Gaseous Organic Compound Emissions by Gas Chromatography

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Adsorbent Tube	Benzene (C ₆ H ₆)	NTP 712.107:2020 1ª Edición (VALIDATED - MODIFIED) Environmental Quality Monitoring. Method of measuring the environmental of benzene in ambient air. Part 2: Aspiration sampling followed by solvent desorption and gas chromatography
	Air	Benzene	UNE-EN 13528-1:2003 / UNE-EN 13528-2:2003 / UNE-EN 13528-3:2004 Ambient air quality - Diffusive sensors for the determination of gas and vapor concentrations - Part 1: General requirements - Part 2: Specific requirements and test methods - Part 3: Guide to selection, use and maintenance
	Emission	Non-Methane Hydrocarbons (NMHC)	EPA CFR Title 40, Appendix A-7 to Part 60, Method 25, 2022 Determination of total gaseous nonmethane organic emissions as carbon
		Total Hydrocarbons / Total Organic Hydrocarbons	CTM-022, 1995 / CTM-030, 1997 (VALIDATED) 2022 Determination of Nitric Oxide, Nitrogen Dioxide and NOx Emissions from Stationary Combustion Sources by Electrochemical Analyzer 1995 / Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired Engines, Boilers and Process Heaters using Portable Analyzers, 1997
	Natural Water, Water for human use and consumption, Saline Water and Waste Water	Polychlorinated Biphenyls PCBs (As Aroclor) Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254	EPA Method 8082 A, Rev.01, 2007 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water and Waste Water (cont'd.)	Aroclor 1260	
		Aldicarb	EPA Method 8270 E, Rev.6 2018. VALIDATED (Applied out of reach), 2018. Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry
		Volatile Organic Compounds (VOCs) 1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane (1,2-DCP) 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Chlorotoluene 4-Chlorotoluene Benzene Bromobenzene Bromochloromethane Carbon Tetrachloride Chlorobenzene cis-1,2-Dichloroethene Dibromomethane Ethylbenzene Hexachlorobutadiene m,p-Xylene n-Butylbenzene	EPA Method 8260D, Rev.04, 2018 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water and Waste Water (cont'd.)	n-Propylbenzene Naphthalene o-Xylene sec-Butylbenzene Styrene tert-Butylbenzene Tetrachloroethene Toluene trans-1,2-Dichloroethylene Trichloroethene 1,1,2-Trichloroethene p-Isopropyltoluene Bromodichloromethane Bromoform Dibromochloromethane Chloroform Cumene (Isopropylbenzene) cis-1,3-Dichloropropene trans-1,3-Dichloropropene Dichloromethane Vinyl chloride Trihalomethane: Reference in ECA Water (DS N°004-2017-MINAM) y DS N° 031-2010-SA: Total Trihalomethane: Bromodichloromethane, Bromoform, Dibromochloromethane, Chloroform and Total Xylene.	EPA Method 8260D, Rev.04, 2018 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (cont'd.)
		Polycyclic Aromatic Hydrocarbons (PAHs): 1-Methylnaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Benz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene	EPA Method 8270E, Rev. 06, 2018 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water and Waste Water (cont'd.)	Dibenz(a,h)anthracene Phenanthrene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Pyrene Anthracene Benzo(a)pyrene Fluoranthene Reference in ECA Water (DS N°004-2017-MINAM): Total Oil Hydrocarbons (Fraction Aromatic)	EPA Method 8270E, Rev. 06, 2018 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (cont'd.)
		Organophosphorus and Organochlorine Pesticides I <ul style="list-style-type: none"> • ALPHA-BCH (alpha-HCH) • Beta-BHC (beta-HCH) • Gamma-BHC (Lindane) • Delta-BHC (delta-HCH) • Heptachlor • Aldrin • Heptachlor epoxide • Trans-Chlordane • Cis-Chlordane • Endosulfan I • 4,4'-DDE • Dieldrin • Endrin • 4,4'-DDD • Endosulfan II • Endrin aldehyde • 4,4'-DDT • Endosulfan sulfate • Methoxychlor • Endrin ketone • Malathion 	EPA 8270E, Rev 06, 2018 Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Natural Water, Water for human use and consumption, Saline Water and Waste Water (cont'd.)	<ul style="list-style-type: none"> • DDT (Sum) = (4,4' DDD + 4,4'-DDE) • Aldrin + Dieldrin • Heptachlor + Heptachlor • Epoxide Chlordane (Sum) = cis-Chlordane+ trans-Chlordane	EPA 8270E, Rev 06,2018 Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS) (cont'd.)
		Organophosphorus Pesticides Malathion Parathion	EPA Method 8270E, Rev. 06, 2018 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
	Natural Water, Water for human use and consumption	Organophosphorus and Organochlorine Pesticides II Hexachlorobenzene, Trifluralin, Chloropyrifos	EPA 8270E Rev.6, 2018. VALIDATED (Applied out of reach), 2019. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
		Microcystin LR	ISO 20179:2005 Water quality - Determination of microcystins – Method using solid phase extraction (SPE) and high performance liquid chromatography (HPLC) with ultraviolet (UV) detection
	Water for human use and consumption, Natural water, Waste water, Saline water, Process water	Total Petroleum Hydrocarbons (C10-C40) Diesel DRO Range (C10-C28) Referenced in DS N ° 031-2010-SA: Dissolved or emulsified hydrocarbon; mineral oil	EPA Method 8015 C, Rev. 3, 2007 Nonhalogenated Organics by Gas Chromatography
		Total Petroleum Hydrocarbons (TPH) Ranges: (C8-C40), (C8-C28), (C28-C40), (C6-C40), (C5-C40), (C5-C10), (>C10-C40)	EPA Method 8015C / Rev.3 2007 Nonhalogenated Organics by Gas Chromatography

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Water for human use and consumption, Natural water, Waste water, Saline water, Process water (cont'd.)	BTEX: • Benzene • Toluene • Ethylbenzene • m,p- Xylene • o-Xylene • Total Xylenes	EPA Method 8015C Rev. 3, 2007 / EPA Method 5021 A Rev. 2, 2014 Nonhalogenated Organics by Gas Chromatography / Volatile Organic Compounds in Various Sample Matrices using Equilibrium Headspace Analysis.
		Gasoline Benzene, Isooctane, Heptane, Toluene, Ethylbenzene, m-Xylene, p-Xylene, o-Xylene, 1,2,4-trimethylbenzene	EPA Method 8260D, Rev.4 2018 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry
		Steres Ftalatos Dimethyl Phthalate, Diethyl Phthalate, Di-n-Butyl Phthalate, Butyl Benzyl Phthalate, Di (2-Ethylhexyl) phthalate, Di-n-Octyl Phthalate	EPA Method 8270E / Rev.6 2018 Semivolatile Organic Compounds by Gas Chromatography /Mass Spectrometry
		Phenolics 2,3,4,6-Tetrachloro Phenol; 2,4,5-Trichlorophenol; 2,4,6-Trichlorophenol; 2,4-Dichlorophenol; 2,4-Dimethylphenol; 2,6-Dichlorophenol; 2-Chlorophenol; 2-Methylphenol (o-cresol); 2-Nitrophenol; 4-Chloro-3-Methylphenol; 4-Methylphenol; Benzoic acid; 4 Nitrophenol; Pentachlorophenol (PCP); Phenol.	EPA Method 8270E / Rev.6 2018 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field collection + Lab Testing) (cont'd.)	Water for human use and consumption, natural water, process water	Volatile Organic Pollutants Vinyl Chloride, Epichlorohydrin	EPA Method 8260D / Rev.4 2018 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry
	Fishes Biological Tissues	Total Petroleum Hydrocarbons (C10-C40)	EPA Method 8015 C, Rev. 3, 2007. (VALIDATED – MODIFIED), 2020 Nonhalogenated Organics by Gas Chromatography
		Polycyclic Aromatic Hydrocarbons (PAHs): Acenaphthene Acenaphthylene Benzo (a) anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Anthracene Chrysene Phenanthrene Fluoranthene Fluorene Pyrene	EPA Method 8270 E, 2018. (VALIDATED – MODIFIED), 2020 Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)
ENVIRONMENTAL CHEMISTRY - ORGANICS (Lab Testing)	Water for human consumption, Natural waters	PARAQUAT, DIQUAT	EURL-SRM-Version 12:2021(Validated Modified). 2023. Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement
ENVIRONMENTAL CHEMISTRY - ORGANICS (Field Testing)	Sediments, Sludges and Soils	Recoverable Petroleum Hydrocarbon	EPA METHOD 9074, Rev.0, 2007. Turbidimetric Screening Method for Total Recoverable Petroleum Hydrocarbons in Soil. (PetroFLAG analyzer)
	Emissions	Dioxins and Furans	EPA CFR Title 40, Appendix A-7 to Part 60, Method 23, 2022 Determination of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans from stationary sources

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ENVIRONMENTAL CHEMISTRY - ORGANICS (Field Testing) (cont'd.)	Air (Gas Venting)	Hydrogen Sulfide (H ₂ S)	CTM 034 (VALIDATED-Out of scope), 2023. ICAC Test Method for Periodic Monitoring. Test Method - Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure)
		Volatile Organic Compounds (VOCs)	EPA CFR Title 40 Appendix A-6 Part 60, Method 18, 2022 (VALIDATED-Out of scope), 2023. Measurement of Gaseous Organic Compound Emissions by Gas Chromatography. 2023
		Total Hydrocarbons (HT)	CTM 034 (VALIDATED-Out of scope), 2023. ICAC Test Method for Periodic Monitoring. Test Method - Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure). 2023
		Nitrogen Dioxide, Carbon Monoxide, Nitric Oxide, Nitrous Oxides	CTM 034 VALIDATED (Applied out of scope), 2023. ICAC Test Method for Periodic Monitoring. Test Method - Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure). 2023
ACOUSTICS (Field Measurement)	Environmental Noise	Noise	NTP-ISO 1996-1, 2020 /NTP-ISO 1996-2, 2023 ACOUSTICS. Description. measurement and assessment of environmental noise. Part1: Basic quantities and assessment procedures / ACOUSTICS. Description, measurement and assessment of environmental noise.

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			Part 2: Determination of environmental noise levels.
OCCUPATIONAL HEALTH & SAFETY – ACOUSTICS (Field Measurement)	Occupational Noise	Occupational noise - Dosimetry	DS 024-2016-EM modified as per D.S. N° 023-2017-EM, Official edition 2020 Occupational health and safety regulations in Mining
		Occupational noise - Sonometry	DS 024-2016-EM modified as per D.S. N° 023-2017-EM Official edition 2020 Occupational health and safety regulations in Mining
	Occupational health	Whole body vibration	NTP – ISO 2631-1:2011 (Revised 2022) / NTP-ISO 2631-2:2012 (Revised 2022) Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 1: General requirements. / Part 2: Vibration in buildings (1 Hz to 80 Hz).
		Hand-transmitted vibration	UNE – EN ISO 5349-2 (2002). Mechanical vibration - Measurement and evaluation of human exposure to hand-transmitted vibration - Part 2: Practical guidance for measurement at the workplace.
		Thermal Stress: heat stress	UNE-EN ISO 7243:2017 Ergonomics of the thermal environment — Assessment of heat stress using the WBGT (wet bulb globe temperature) index (ISO 7243:2017) (Ratified by the Spanish Association for Standardization in November 2017.)
		Thermal Stress: cold stress	UNE-EN ISO 11079:2009 Ergonomics of the thermal environment - Determination and interpretation of cold stress when using required clothing insulation (IREQ) and local cooling effects (ISO 11079:2007)
		Sulfide Sulfate	K-600 Miltirae (VALIDATED - MODIFIED), 2022 K-600M with built in pump

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OCCUPATIONAL HEALTH & SAFETY – ACOUSTICS (Field Measurement) (cont'd.)	Occupational health (cont'd.)	VOC's, Lel, Explosivity	Technical Note TN-106B; 2005. Correction Factors, Ionization Energies, And Calibration Characteristics.
		Carbon Dioxide (CO2)	UNE 171330-2:2014. Calidad Ambiental en Interiores. Parte 2: Procedimientos de Inspección de Calidad Ambiental Interior.
	Environmental vibration: Particle velocity, Vibration frequency. Validated: Particle acceleration, Vibration index, peak, Displacement	Vibration in structures	DIN 4150-3:2016-12. Vibrations in buildings - Part 3: Effects on structures
ENVIRONMENTAL – ELECTROMAGNETIC RADIATION – AIR (Field Measurement)	Non-ionizing radiation Fixed site radiation	Magnetic flux density Electrical field strength Magnetic field strength power density	R.M. N° 613-2004-MTC-03
	Air Indoor Air	Non-Ionizing Electromagnetic Radiation	IEEE STD. 644.2019 IEEE Standard for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines.
AGRONOMY CHEMISTRY - INORGANIC (Lab Testing)	Foliar	Moisture content	Official Mexican Standard NOM-021-RECNAT-2000 , which establishes the specifications of fertility, salinity, and soil classification, Studies, sampling and analysis. AS-05; item 7.1.5 Moisture content by gravimetry
		Dry Matter	Official Mexican Standard NOM-021-RECNAT-2000, (VALIDATED - Out of Scope) Which establishes the specifications of fertility, salinity, and soil classification, Studies, sampling and analysis. AS-05; item 7.1.5 Moisture Content by Gravimetry.
		Total Metals: B, Ca, Cu, Fe, K, Mg, Mn, Na, P, S, Zn.	MVAL-AGR-04, VALIDATED 2022 Foliar Metals by ICP-OES Spectrophotometry.
		Chlorides	MVAL-AGR-05, VALIDATED 2022 Chlorides in Foliar by Volumetry.

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AGRONOMY CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Organic Fertilizer	Total Organic Carbon	Official Mexican Standard NOM-021-RECNAT-2000, AS-07 (VALIDATED - Out of Scope) Which establishes the specifications of fertility, salinity and soil classification. Studies, sampling and analysis - Determination of Organic Carbon
		Conductivity (1:10)	MVAL-AGR-002, VALIDATED 2022 Determination of conductivity (1:1; 1:2.5; 1:10; EPS)
		Organic material	Official Mexican Standard NOM-021-RECNAT-2000, AS-07 (VALIDATED - Out of Scope) Which establishes the specifications of fertility, salinity and soil classification. Studies, sampling and analysis - determination of organic matter
		pH (1:10)	MVAL-AGR-001, VALIDATED 2022 pH Determination (1:1; 1:2.5; 1:10; EPS)
		C/N ratio (Carbon and Nitrogen)	MVAL-AGR-022, VALIDATED 2022 Calculated by ratio between TOC: NOM-021-RECNAT-2000, AS-07 (Validated Out of Scope) and Nitrogen: ISO 16634-2: 2016 (Validated - Modified)
	Organic Fertilizer Inorganic Fertilizer	Total Metals Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Sn, Ti, V, Zn, S	EPA Method 3050 B rev.2, 1996 / EPA METHOD 200.7, Rev. 4, (VALIDATED - MODIFIED) Acid Digestion of Sediments, Sludges, and Solis / Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry.
		Total Metals As, Cd, Cr, Ni, Hg, Pb	EPA Method 3050 B rev.2, 1996 / EPA METHOD 6020B, Rev. 2, 2014 (VALIDATED - MODIFIED) Acid Digestion of Sediments, Sludges, and Solis / Determination of Metals and Trace Elements in Inductively Coupled Plasma - Mass

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AGRONOMY CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Organic Fertilizer Inorganic Fertilizer (cont'd.)		Spectrometry, part of Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.
	Organic Fertilizer	Total Metals B, Ca, Cu, Mg, Mn, K, Na, Zn, P, Fe	EPA Method 3050 B rev.2, 1996 / EPA METHOD 200.7, Rev. 4, (VALIDATED - MODIFIED) Acid Digestion of Sediments, Sludges, and Solis / Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry.
	Inorganic Fertilizer	Total Metals B, K ₂ O, P ₂ O ₅ , CaO; MgO, Na, S, Fe, Mn, Zn	EPA 200.7 Rev. 4.4, 1984 (VALIDATED - MODIFIED), 2022 Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry
	Natural Water, Irrigation Water	Nitrogen (Ammonia)	SMEWW-APHA-AWWA-WEF Part 4500-NH₃ G, 24th Ed., 2023 (Validated-Modified) - Automated Discrete Analyzer. 2023. Nitrogen (Ammonia). Ammonia-Automated Phenate Method
		Ammoniacal Nitrogen	ISO 11732:2005 (Validated-Modified). 2023. Water quality — Determination of ammonium nitrogen — Method by flow analysis (CFA and FIA) and spectrometric detection
	Leaves, fruit, stem, root, and flowers	Total Nitrogen	ISO 16634-2: 2016 (Validated), 2025. Determination of Total Nitrogen Content by Combustion according to the Dumas Principle.
	Leaves, fruit, stem, root, and flowers	Dry Matter	Official Mexican Standard, NOM-021-RECNAT-2000, AS-05 (Validated), 2025. Which establishes the specifications of fertility, salinity, and soil classification, Studies, sampling and analysis. AS-05; item 7.1.5 Moisture Content by Gravimetry.

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AGRONOMY CHEMISTRY - INORGANIC (Lab Testing) (cont'd.)	Organic fertilizer, Inorganic fertilizer	Pesticides GC-MS / LC-MS	UNE-EN 15662:2019 (Validated), 2025 Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. 2023.
AGRONOMY CHEMISTRY - INORGANIC (Field collection + Lab Testing)	Soils, sediments	Pesticides GC-MS / LC-MS	UNE-EN 15662:2019 (Validated), 2025 Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. 2023.
FOODS - MICROBIOLOGY (Lab Testing)	Processed Foods: Foods for Special Regimes Meat and Meat Products Cereal grains, Legumes, Chenopodiaceae and derivatives (Flour and others) Spices, Condiments and Sauces, Sugars Honeys and Similar Fruits, Vegetables, Nuts and other vegetables, Ice Cream and Ice Cream Mixes Bakery, Pastry and Biscuit Products Confectionery Products Dehydrated Products: Lyophilized or concentrated and mixtures Milk and Dairy Products	Salmonella	ISO 6579-1:2017/ ISO 6579-1:2017/Amd 1:2020 (except 9.3.3, 9.4.3 and Annex D) Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella. Part 1: Detection of Salmonella spp / Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella. Part 1: Detection of Salmonella spp. - Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - MICROBIOLOGY (Lab Testing) (cont'd.)	Frozen hydrobiological products Refrigerated hydrobiological products Pre-cooked and cooked Hydrobiological Products; Raw Mollusks and Crustaceans Mollusks and crustaceans pre-cooked and cooked Frozen Raw Breaded Hydrobiological Products; Precooked and frozen cooked breaded hydrobiological products Eggs and Egg Products Processed Foods	Salmonella (cont'd.)	ISO 6579-1:2017/ ISO 6579-1:2017/Amd 1:2020 (except 9.3.3, 9.4.3 and Annex D) Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella. Part 1: Detection of Salmonella spp / Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella. Part 1: Detection of Salmonella spp. - Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC (cont'd.)
	Processed Foods: Foods for Special Regimes Meat and Meat Products Cereal grains, Legumes, Chenopodiaceae and Derivatives (Flour and others) Ice Cream and Ice Cream Mixes Milk and Dairy Products Spices, Condiments and Sauces: Mayonnaise and other egg-based sauces Bakery, Pastry and Biscuit Products	Staphylococcus Aureus Enumeration	ICMSF Food Microorganisms. Their meaning and enumeration methods. Pages 235-238. 2nd Ed. Reprint 2000 Staphylococcus aureus. Method 5 (NMP technique with mannitol glycine tellurite broth). Coagulase test.

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FOODS - MICROBIOLOGY (Lab Testing) (cont'd.)	Dehydrated Products: Lyophilized or concentrated and mixtures	Staphylococcus Aureus Enumeration (cont'd.)	ICMSF Food Microorganisms. Their meaning and enumeration methods. Pages 235-238. 2nd Ed. Reprint 2000 Staphylococcus aureus. Method 5 (NMP technique with mannitol glycine tellurite broth). Coagulase test. (cont'd.)
	Meat and Meat Products Cereal grains, Legumes, Chenopodiaceae and Derivatives (Flour and others): Containing meat Bakery, Pastry and Biscuit Products: With meat filling Dehydrated products: Lyophilized or concentrated and mixtures: Containing meat Meat and Derivatives Preserves Animal Feed (Balanced) Squid Meal, Fish Meal	Clostridium Perfringens	ICMSF Food Microorganisms. Their meaning and enumeration methods. Method 2, Pages 281-283, I, II and III. 2nd Ed. Reprint 2000 Clostridium perfringens. North American Method 2
	Meat and Meat Products: Sausages with heat treatment Fruits, Vegetables, Nuts and other vegetables Milk and Dairy Products, Ice Cream and Ice Cream Mixes Frozen Hydrobiological Products Refrigerated	Detection of Listeria Monocytogenes	ISO 11290-1:2017 Microbiology of the food chain - Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. Part 1: Detection method

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FOODS - MICROBIOLOGY (Lab Testing) (cont'd.)	hydrobiological products Pre-cooked and cooked Hydrobiological Products; Raw Mollusks and Crustaceans; Mollusks and crustaceans pre-cooked and cooked; Frozen Raw Breaded Hydrobiological Products; Precooked and frozen cooked breaded hydrobiological products Processed Foods	Detection of Listeria Monocytogenes (cont'd.)	ISO 11290-1:2017 Microbiology of the food chain - Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. Part 1: Detection method (cont'd.)
	Fruits and Vegetables Processed Foods: Foods for Special Regimes, Meat and Meat Products, Cereal grains, Legumes, Chenopodiaceae and Derivatives (Flour and others), Ice Cream and Ice Cream Mixes, Milk and Dairy Products, Spices, Condiments and Sauces: Frozen hydrobiological products, Refrigerated hydrobiological products, Precooked and cooked Hydrobiological Products; Crustaceans and Mollusks raw,	Positive Cogalus Staphylococcus Aureus Count	ISO 6888-1:2021, except 9.4.3 Microbiology of food chain - Horizontal method for the enumeration of coagulasepositive staphylococci (Staphylococcus aureus and other species) -- Part 1: Technique using Baird-Parker agar medium.

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FOODS - MICROBIOLOGY (Lab Testing) (cont'd.)	Mollusks and crustaceans pre-cooked and cooked, Frozen Raw Breaded Hydrobiological Products, Precooked and frozen cooked breaded hydrobiological products Balanced Meal Squid Meal, Fish Meal	Positive Cogalus Staphylococcus Aureus Count (cont'd.)	ISO 6888-1:2021, except 9.4.3 Microbiology of food chain - Horizontal method for the enumeration of coagulasepositive staphylococci (Staphylococcus aureus and other species) -- Part 1: Technique using Baird-Parker agar medium. (cont'd.)
	Animal Feed (Balanced) Meats and Derivatives Preserves Processed Food Squid Meal, Fish Meal	Enterobacterial Count	ISO 21528-2:2017 . Microbiology of food and animal feeding stuffs -- Horizontal methods for the detection and enumeration of Enterobacteriaceae - Part 2: Colony-count method.
	Bakery Products Fruits and Vegetables Processed Food	E.Coli Count	ISO 16649-2:2001 . Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide.
	Inert Surfaces Living Surfaces	E.Coli Count	ISO 16649-2:2001 // RM 461 // RM No 461-2007-MINSA . Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide // Technical Guide for the Microbiological Analysis of Surfaces in Contact with Food and Beverages.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing)	Raw Milk Pasteurized Milk UHT	Acidity	NTP 202.116:2008 (revised 2018), 3rd Edition MILK AND DAIRY PRODUCTS. raw milk Determination of acidity of milk. Volumetric method.
	Cereal Flakes		NTP 205.039:2022 (VALIDATED - Applied out of scope) CEREALS AND DERIVED PRODUCTS. FLOURS. Determination of titratable acidity. 2 nd Edition
	Bakery Products		NTP 206.008:1976 (Revised 2021) BAKERY PRODUCTS. Determination of the percentage of titratable acidity
	Biscuits Noodles Cake Pasta		NTP 206.013:1981 (Revised 2021) CAKES, BISCUITS, PASTA AND NOODLES. Determination of acidity
	Animal Feed	Ash	AOAC 942.05, 22nd Edition Ash of Animal Feed
	Cereals Cereal Flakes Menestras		NTP 205.004:2022, 3rd Edition CEREALS AND LEGUMES. Determination of ashes.
	Cereals and Cereal-Based Products Bakery products bread	Fat	AOAC 935.39 (D) / AOAC 922.06 22nd Edition, 2023 Baked Products. Fat
	Cereals Cereal Flakes Menestras		NTP 205.006:2017, 2nd Edition / NTP 205.006:2017/CT 1:2018 CEREALS AND MENESTRAS. Determination of fat / CEREALS AND MENESTRAS. Fat determination. TECHNICAL CORRIGENDA 1
	Biscuits		NTP 206.017:1981 (revised 2021) BISCUITS. Fat percentage determination
	Flour(s)	Moisture	AOAC 925.10, 22nd Edition, 2023 Solids (Total) and Loss on Drying (Moisture) in Flour. Air Oven Method

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FOODS - (Lab Testing) (cont'd.)	Cereals Cereal Flakes Menestras	Moisture (cont'd.)	NTP 205.002:2021, 2nd Edition CEREALS AND LEGUMES. Determination of moisture content. routine method
	Biscuits	Peroxide Index	NTP 206.016:1981 (Revised 2011) BISCUITS. Determination of peroxides
	Oils and Fats	Iodine Value	AOAC 920.158, 22nd Edition, 2023 Iodine Absorption Number of Oils and Fats. Hanus Method.
	Meat and Meat Products, Including Poultry and Game, Fish and Fishery Products, Including Mollusks, Crustaceans and Echinoderms Meat and Meat Products Frozen Raw Fish and Hydrobiologicals (Fish and Cephalopods)	Ammonia Nitrogen	NTP 201.032:1982 (revised 2015) MEAT AND MEAT PRODUCTS Determination of ammoniacal nitrogen content
	Meat and Meat Products, Including Poultry and Game Fruits and Vegetables Dairy Products and Analogue Products	pH	AOAC 981.12, 22nd Edition, 2023 pH of Acidified Foods
	Balanced Food	Protein	AOAC 984.13, 22nd Edition, 2023 Protein (Crude) in Animal Feed and Pet Food. Copper Catalyst Kjeldahl Method
	Biscuits Bread(s)		AOAC 984.13, 22nd Edition, 2023 (VALIDATED - Applied out of scope) Protein (Crude) in Animal Feed and Pet Food. Copper Catalyst Kjeldahl Method

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FOODS - (Lab Testing) (cont'd.)	Meat and Meat Products, including poultry and game	Protein (cont'd.)	NTP 201.021:2002 2nd Ed. (Revised 2022) Meat and Meat Products. Determination of protein content
	Cereals cereal flakes stews		NTP 205.005:2018 Cereals and Menestras. Cereals. Determination of total proteins (Kjeldahl method)
	Meat and Meat Products Prepared Foods	Fat	NTP 201.016(2002) (VALIDATED MODIFIED), 2022. Meat and meat products. Determination of total fat content. 2022
	Milk and Derivatives	Fat	ISO 8262-2 IDF 124-2 2005. Milk products and milk-based foods — Determination of fat content by the Weibull-Berntrop gravimetric method (Reference method) — Part 2: Edible ices and ice-mixes. 2005
		Phosphorus	AOAC Official Method 986.24 Vol III, C.50, p.13 22nd Edition 2023 (VALIDATED MODIFIED), 2023. Phosphorus in Infant Formula and Enteral Products. 2023
	Confectionery and Bakery Products	Fat	Covenin 3341:1997 (VALIDATED MODIFIED), 2023. Candies.
	Products Derived From Cocoa	Fat	AOAC Official Method 963.15, 22nd Edition (VALIDATED MODIFIED), 2023. Fat in cacao products. Soxhlet extract Method. 2023
	Animal Feed	Fat	Official Journal of the European communities. Commission Directive 98/64/EC of 3 September 1998. (VALIDATED MODIFIED). Part B. Determination of Crude Oils and Fats. 1998
			AOAC Official Method 920.39 22nd Edition (VALIDATED MODIFIED), 2023. Fat (Crude) or Either Extract in Animal Feed.

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FOODS - (Lab Testing) (cont'd.)	Animal Feed (cont'd.)	Moisture	NTP-ISO 6496:2011 2nd Edition (Reviewed 2022). Animal Feed. Determination of moisture content and volatile matter. 2022
		Fat	AOAC 920.39, C, 22nd Ed. Fat (Crude) or Ether Extract in Animal Feed. 2023
		Protein	NTP ISO 5983:2002 (Revisada el 2018) 1st Edition (VALIDATED MODIFIED). Animal Feed. Determination of nitrogen content and calculations of crude protein content. Kjeldah method. 2023
	Cheeses	Fat	AOAC Official Method 933.05. 22nd Edition (VALIDATED MODIFIED), 2023. Fat in Cheese.
	Dried, Lyoflized or Concentated Products Foods for Special Dieties	Fat	NTP 209.263:2018 (Reviewed 2023) (VALIDATED MODIFIED). Instantly reconstituted cooked foods. Fat determination. Gravimetric Method, 3rd Edition.
	Fruits, Vegetables and Nuts. Stimulants and Fruitives	Fat	R.Lees Analysis of food .p 156-159 2nd Spanish edition. (VALIDATED MODIFIED), 2023. Fat. Food analysis.
	Milk and Dairy Products	Fat	AOAC Official Method 920.115 22nd Edition (VALIDATED MODIFIED), 2023. Sweetened condensed milk.
	Eggs and Egg Products	Fat	AOAC Official Method 925.32 22nd Edition (VALIDATED MODIFIED), 2023. Fat in eggs. Acid Hydrolysis Method.
	Bakery Products	Fat	AOAC 935.39 (D) / AOAC 922.06 22nd Edition (VALIDATED MODIFIED), 2023. Baked Products. Fat.

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FOODS - (Lab Testing) (cont'd.)	Meat and Meat Products	Nitrites	NTP-ISO 2918:2006 (Reviewed 2020) 2nd Edition. Meat and Meat Products. Determination of nitrite content. Reference method.
	Animal Feed Inputs of Animal Origin	Phosphorus	AOAC 965.17, 22nd Ed. 2023 (VALIDATED MODIFIED), 2023. Phosphorus in Animal feed and Pet Food.
		Pepsin Digestibility	AOAC 971.09, 22nd Edition 2023. Pepsin Digestibility of Animal. Protein Animal Feed. Filtration Method.
	Inputs of Animal Origin	Ammoniacal Nitrogen	AOAC 920.03, 22nd. Edition. Nitrogen (Ammoniacal) in Fertilizers. Magnesium Oxide Method.
	Animal Feed Fish Meal	Acidity	ISO 660 2020. Animal and vegetable fats and oils -- Determination of acid value and acidity.
	Animal and Vegetable Oils and Fats	Moisture	ISO 662:2016. Third edition. Method B.2016. Animal and vegetable fats and oils- Determination of moisture and volatile matter content.
		Peroxides	ISO 3960:2017. Animal and vegetable fats and oils. Determination of peroxide value- iodometric (visual) endpoint determination.
	Fruits and Vegetables Preserves Processed Foods Meats and Meat Products	Sulfites (SO ₂)	AOAC Official Method 990.28. Vol III, C.47, p.38 22nd Edition 2023, (VALIDATED MODIFIED), 2023. Sulfites in food Optimized Monier - Williams Method.
	Meat and Meat Products	Ash	AOAC Official Method 920.153. 22nd Edition, 2023 Ash of Meat.

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FOODS - (Lab Testing) (cont'd.)	Meat and Meat Products (cont'd.)	Moisture	NTP-ISO 1442:2006 (revised 2020). Meat and Meat Products. Determination of Moisture (Reference method) 2 nd edition 2006
	Cereals and Cereals-Based Products Bakery Products Balanced Meal Fish Meal, Input of Vegetable Origin, Input of Animal Origin	Crude Fiber	AOCS-Ba-6-84. 7th Edition (VALIDATED MODIFIED), 2023. Crude Fiber in Oilseed By-Products. 2023
	Cereals Cereals Flakes Stews	Ash	NTP 205.004:2022, 3^a Edition (VALIDATED MODIFIED), 2023. Cereals and Legumes. Determination of ashes. 2023
	Meat and Meat Products Oils and Derivatives Milk and Derivatives Confectionery and Bakery Products Preserves Processed Foods	Fatty Acid Profile	AOAC Official Method 996.06. 22nd Edition. 2023 (VALIDATED MODIFIED), 2023. Fats (Total, saturated and unsaturated) in food.
	Meat and Meat Products Oil and Derivatives Milk and Derivatives Confectionery and Bakery Products Processed Foods	Cholesterol	Journal of AOAC International, Volume 76, Issue 4 (VALIDATED MODIFIED), 2023. Rapid Determination of Cholesterol in Single and Multicomponent prepared foods.
	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives	Screening Pesticides (analytes: "2,4,5-T; 2,4,5-T Methylester; 2,4,5-TP; 2,4-D; 2,4-DB; 2,4-DICOFOL; ABAMECTIN; ACEPHATE; ACEQUINOCYL; ACETAMIPRID; ACETOCHLOR; ACIBENZOLAR-S-METHYL;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method.

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	ACIFLUORFEN; ACLONIFEN; ACRINATHRIN; ACRYLAMIDE; ALACHLOR; ALANYCARB; ALDICARB; ALDICARB-SULFONE; ALDICARB-SULFOXIDE; ALDRIN; ALLETHRIN; ALLIDOCHLOR; AMETOCTRADIN; AMETRYN; AMIDOSULFURON; AMINOCARB; AMISULBROM; AMITRAZ; N-2,4-Dimethylphenyl-N-methylformamidine; ANILAZINE; ANILOFOS; ANTHRAQUINONE; ASULAM; ATRATON; ATRAZINE; ATRAZINE, DESISOPROPYL; ATRAZINE-DESETHYL; AVERMECTIN B1A; AVERMECTIN B1B; AZACONAZOLE; AZADIRACHTIN; AZAMETHIPHOS; AZIMSULFURON; AZINPHOS-ETHYL; AZINPHOS-METHYL; AZIPROTRYNE; AZOXYSTROBIN; BARBAN; BEFLUBUTAMID; BENALAXYL; BENAZOLIN; BENDIOCARB; BENFLURALIN; BENFURACARB; BENFURESATE; BENOMYL; BENOXACOR; BENSULFURON-	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	METHYL; BENSULIDE; BENTAZONE; BENTHIAVALICARB- ISOPROPYL; BENZOVINDIFLUPYR; BENZOXIMATE; BENZOYLPROP- ETHYL; BIFENAZATE; BIFENOX; BIFENTHRIN; BIPHENYL; BITERTANOL; DENATONIUM BENZOATE; BIXAFEN; BOSCALID; BRODIFACOU; BROMACIL; BROMFENVINFOS; BROMFENVINPHOS- METHYL; BROMOBUTIDE; BROMOCYCLEN; BROMOPHOS-ETHYL; BROMOPHOS; BROMOPROPYLATE; BROMOXYNIL; BROMUCONAZOLE; BUPIRIMATE; BUPROFEZIN; BUTACHLOR; BUTAFENACIL; BUTAMIFOS; BUTOCARBOXIM; BUTOXYCARBOXIM; BUTRALIN; BUTURON; BUTYLATE; CADUSAFOS; CAPTAFOL; CAPTAN; CARBARYL; CARBENDAZIM; CARBETAMIDE; CARBOFURAN; 3- HYDROXYCARBOFURAN; CARBOFURANPHENOL; CARBOPHENOTHION; CARBOSULFAN; CARFENTRAZONE- ETHYL; CARBOXIN; CYCLURON;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	CHINOMETHIONAT; CHLORANTRANILIPR OLE; CHLORBENSIDE; CHLORBROMURON; CHLORBUFAM; CHLORDANE, CIS; CHLORDANE, TRANS; CHLORDECON; CHLORDIMEFORM; CHLORETHOXYFOS; CHLORFENAPYR; CHLORFENSON; CHLORFENVINPHOS; CHLORFLUAZURON; CHLORIDAZON; CHLORMEPHOS; CHLORNITROFEN; CHLOROBENZILATE; CHLORONEB; CHLOROPROPYLATE; CHLOROTHALONIL; CHLOROTOLURON; CHLORPROPHAM; CHLORPYRIFOS; CHLORPYRIFOS- METHYL; CHLORPYRIFOS- OXON; CHLORSULFURON; CHLORTHAL- DIMETHYL; CHLORTHIAMID; CHLORTHION; CHLORTHIOPHOS; CHLOZOLINATE; CHROMAFENOZIDE; CINIDON-ETHYL; CINOSULFURON; CLETHODIM; CLODINAFOP- PROPARGYL; CLOFENTEZINE; CLOMAZONE; CLOPYRALID; CLOQUINTOCET; CLOQUINTOCET- MEXYL; CLOTHIANIDIN;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	COUMAPHOS; CRIMIDINE; CRUFOMATE; CYANAZINE; CYANOFENPHOS; CYANOPHOS; CYANTRANILIPROLE; CYAZOFAMID; CYCLANILIDE; CYCLANILIPROLE; CYCLOATE; CYCLOXYDIM; CYFLUFENAMID; CYFLUMETOFEN; CYFLUTHRIN (SUM); CYFLUTHRIN, BETA; CYHALOFOP-BUTYL; CYHALOTHRIN, GAMMA; CYHALOTHRIN, LAMBDA; CYHALOTRIN; CYHEXATIN; CYMIAZOL; CYMOXANIL; CYPERMETHRIN (SUM); ALPHAMETHRIN; CYPROCONAZOLE; CYPRODINIL; CYPROSULFAMIDE; CYROMAZINE; DALAPON; DAZOMET; DDD, O,P-; DDD, P,P; DDE, O,P-; DDE, P,P; DDT, O,P-; DDT, P,P; DELTAMETHRIN; DEMETON (O+S); DEMETON-S; DEMETON-S-METHYL; DEMETON-S- METHYLSULFONE; DEMETON-S- METHYLSULFOXIDE; DESMEDIPHAM; DESMETRYN; DIAFENTHIURON; DIALIFOS; DI-ALLATE; DIAZINON; DICAMBA;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	DICAMBA DESMETHOXY (METHYL 2,5- DICHLOROBENZOATE); DICHLOBENIL; DICHLOFENTHION; DICHLOFLUANID; DICHLONE; DICHLORMID; 3,4- DICHLOROANILINE; DICHLOROBENZAMIDE, 2,6-; 4,4'- DICHLOROBENZOPH E NONE; DICHLORPROP; DICHLORVOS; DICLOBUTRAZOL; DICLOFOP; DICLOFOP-METHYL; DICLORAN; DICOFOL; DICROTOPHOS; DIELDRIN; DIETHOFENCARB; DIETHYL-M- TOLUAMID,N,N-; DIFENOCONAZOLE; DIFENOXURON; DIFLOVIDAZIN; DIFLUBENZURON; DIFLUFENICAN; DIMEFOX; DIMEFURON; DIMEPIPERATE; DIMETHACHLOR; DIMETHAMETRYM; DIMETHENAMID (SUM); DIMETHIPIN; DIMETHOATE; DIMETHOMORPH; DIMETHYLANILINE, 2,4-; DIMETHYLVINPHOS; DIMOXYSTROBIN; DINICONAZOLE; DINOSEB; DINOTEFURAN; DINOTERB; DIOFENOLAN;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	DIOXACARB; DIOXATHION; DIPHENAMID; DIPHENYLAMINE; DISULFOTON; DISULFOTON- SULFONE; DISULFOTON- SULFOXIDE; DITALIMFOS; DIURON; DMST; DNOC; DODEMORPH; DODINE; DORAMECTIN; EDIFENPHOS; EMAMECTIN- BENZOATE; ENDOSULFAN SULFATE; ENDOSULFAN, ALPHA; ENDOSULFAN, BETA; ENDRIN; ENDRIN ALDEHYDE; EPN; EPOXICONAZOLE; EPRINOMECTIN; EPTC; ESFENVALERATE; ESPROCARB; ETACONAZOLE; ETHALFLURALIN; ETHAMETSULFURON- METHYL; ETHIDIMURON; ETHIOFENCARB; ETHIOFENCARB- SULFONE; ETHIOFENCARB- SULFOXIDE; ETHIOLATE; ETHION; ETHIOPROLE; ETHIRIMOL; ETHOFUMESATE; ETHOPROPHOS; ETHOXYQUIN; ETHOXSULFURON; ETOFENPROX; ETOXAZOLE; ETRIDIAZOLE;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	ETRIMFOS; FAMOXADONE; FAMPHUR; FENAMIDONE; FENAMIPHOS; FENAMIPHOS-SULFONE; FENAMIPHOS-SULFOXIDE; FENARIMOL; FENAZAQUIN; FENBUCONAZOLE; FENBUTATIN OXIDE; FENCHLORPHOS; FENFLUTHRIN; FENFURAM; FENHEXAMID; FENITROTHION; FENOBUCARB; FENOTHIOCARB; FENOXAPROPO-P-ETHYL; FENOXYCARB; FENPICLONIL; FENPICOXAMID; FENPROPATHRIN; FENPROPIDIN; FENPROPIMORPH; FENPYRAZAMINE; FENPYROXIMATE; FENSON; FENSULFOTHION; FENTHION; FENTHION-OXON; FENTHION-OXONSULFONE; FENTHION-OXONSULFOXIDE; FENTHION-SULFONE; FENTHION-SULFOXIDE; FENURON; FENVALERATE; FIPRONIL; FIPRONIL-SULFIDE; FIPRONIL-SULFONE; FLAMPROP-METHYL; FLAMPROP-ISOPROPYL;	UNE-EN 15662:2019 (VALIDATED MODIFIED),2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	FLAZASULFURON; FLONICAMID; FLORASULAM; FLORPYRAUXIFEN- BENZYL; FLUACRYPYRIM; FLUAZIFOP; FLUAZIFOP-P-BUTYL; FLUAZINAM; FLUBENDIAMIDE; FLUBENZIMINE; FLUCYCLOXURON; FLUCYTHRINATE; FLUDIOXONIL; FLUFENACET; FLUFENACET- OXALATE; FLUFENOXURON; FLUMETHRIN; FLUMETRALIN; FLUMIOXAZIN; FLUOMETURON; FLUOPICOLIDE; FLUOPYRAM; FLUOROGLYCOFEN- ETHYL; FLUOTRIMAZOLE; FLUOXASTROBIN; FLUPYRADIFURONE; FLUQUINCONAZOLE; FLURIDONE; FLUROCHLORIDONE; FLUROXYPYR; FLUROXYPYR- MEPTYL; FLURPRIMIDOL; FLURTAMONE; FLUSILAZOLE; FLUTHIACET- METHYL; FLUTIANIL; FLUTOLANIL; FLUTRIAFOL; FLUVALINATE,TAU; FLUXAPYROXAD; FOLPET; FOMESAFEN; FONOFOS; FORAMSULFURON; FORCHLORFENURON;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	FORMOTHION; FOSTHIAZATE; FUBERIDAZOLE; FURALAXYL; FURAMETPYR; FURATHIOCARB; FURILAZOLE; FURMECYCLOX; HALAUXIFEN- METHYL; HALFENPROX; HALOFENOZIDE; HALOSULFURON- METHYL; HALOXYFOP; HALOXYFOP- ETHOTYL; HALOXYFOP- METHYL; HALOXYFOP-R; HALOXYFOP-R- METHYL; HCH, ALPHA; HCH, BETA; HCH, DELTA; HCH, GAMMA; HEPTACHLOR; HEPTACHLOREPOXID , CIS; HEPTACHLOREPOXID , TRANS; HEPTENOPHOS; HEXACHLOROBENZE NE; HEXACONAZOLE; HEXAFLUMURON; HEXAZINONE; HEXYTHIAZOX; HYMEZAXOL (3- Hydroxy-5- methylisoxazole); IMAZALIL; IMAZAMETHABENZ- METHYL; IMAZAMOX; IMAZAPIC; IMAZAPYR; IMAZAQUIN; IMAZETHAPYR; IMAZOSULFURON; IMIBENCONAZOLE; IMIDACLOPRID; INDANOFAN;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	INDAZIFLAM; INDOLE-3-BUTRIC ACID; INDOXACARB; IDOCARB; IDOFENPHOS; IDOSULFURON-METHYL; IOXYNIL; IPCONAZOLE; IPROBENFOS; IPRODIONE; IPROVALICARB; ISAZOFOS; ISOCARBOPHOS; ISODRIN; ISOFENPHOS; ISOFENPHOS-METHYL; ISOFETAMID; ISOPROCARB; ISOPROPALIN; ISOPROTHIOLANE; ISOPROTURON; ISOPYRAZAM; ISOXABEN; ISOXAFLUTOLE; ISOXATHION; IVERMECTIN; KARANJIN; KRESOXIM-METHYL; LACTOFEN; LENACIL; LEPTOPHOS; LINURON; LUFENURON; MALAOXON; MALATHION; MANDIPROPAMID; MATRINE; MCPA; MCPB; MCPP; MECARBAM; MEFENACET; MEFENPYR-DIETHYL; MEFENTRIFLUCONAZOLE; MEPANIPYRIM; MEPHOSFOLAN; MEPRONIL; MEPTYLDINOCAP; MESOSULFURON-METHYL; MESOTRIONE;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	METAFLUMIZONE; METALAXYL; METAMITRON; METAZACHLOR; METCONAZOLE; METHABENZTHIAZUR ON; METHACRIFOS; METHAMIDOPHOS; METHIDATHION; METHIOCARB; METHIOCARB- SULFONE; METHIOCARB- SULFOXIDE; METHOMYL; METHOPRENE; METHOPROTRYNE; METHOXYCHLOR; METHOXYFENOZIDE; METOBROMURON; METOLACHLOR; METOLACHLOR, (S); METOLCARB; METOSULAM; METOXURON; METRAFENONE; METRIBUZIN; METSULFURON- METHYL; MEVINPHOS; MEXACARBATE; MILBEMYCIN A3; MILBEMYCIN A4; MIREX; MOLINATE; MONOCROTOPHOS; MONOLINURON; MONURON; MOXIDECTIN; MPPA; MYCLOBUTANIL; NALED; NAPROPAMIDE; NAPTALAM; NEBURON; NICOSULFURON; NICOTINE; NITENPYRAM; NITRALIN; NITRAPYRIN; NITROFEN;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	NITROTHAL- ISOPROPYL; NORFLURAZON; NOVALURON; NUARIMOL; OFURACE; OMETHOATE; ORBENCARB; 2- PHENYLPHENOL; ORYZALIN; OXADIARGYL; OXADIAZON; OXADIXYL; OXAMYL; OXASULFURON; OXATHIPIPROLIN; OXYCARBOXIN; OXYFLUORFEN; OXYMATRINE; PACLOBUTRAZOL; PARAOXON; PARAOXON-METHYL; PARATHION; PARATHION-METHYL; PEBULATE; PENCONAZOLE; PENCYCURON; PENDIMETHALIN; PENOXSULAM; PENTACHLOROANILI NE; PENTACHLOROANISO LE; PENTACHLOROPHEN OL; PENTHIOPYRAD; PENTOXAZONE; PERMETHRIN, CIS; PERMETHRIN, TRANS; PERTHANE; PETHOXAMID; PHENMEDIPHAM; PHENOL; PHENOTHRIN; PHENTHOATE; PHORATE; PHORATE- OXON; PHORATE- SULFONE; PHORATE- SULFOXIDE; PHOSALONE; PHOSFOLAN;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	PHOSMET; PHOSPHAMIDON; PHOXIM; PHTHALIDE; PHTHALIMIDE; PICLORAM; PICOLINAFEN; PICOXYSTROBIN; PINOXADEN; PIPERALIN; PIPERONYL- BUTOXIDE; PIPEROPHOS; PIRIMICARB; PIRIMIPHOS-ETHYL; PIRIMIPHOS-METHYL; PRETILACHLOR; PRIMISULFURON- METHYL; PRIRIMICARB, DESMETHYL; PROCHLORAZ; PROCYMIDONE; PROFENOFOS; PROFLURALIN; PROMECARB; PROMETON; PROMETRYN; PROPACHLOR; PROPAMOCARB; PROPANIL; PROPAPHOS; PROPAQUIZAFOP; PROPARGITE; PROPAZINE; PROPETAMPHOS; PROPHAM; PROPICONAZOLE; PROPOXUR; PROPOXYCARBAZO NE; PROPYZAMIDE; PROQUINAZID; PROSULFOCARB; PROSULFURON; PROTHIOCONAZOLE; PROTHIOCONAZOLE- DESTHIO; PROTHIOFOS; PYMETROZINE; PYRACARBOLID;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	PYRACLOFOS; PYRACLOSTROBIN; PYRAFLUFEN-ETHYL; PYRASULFOTOLE; PYRAZOPHOS; PYRIBUTICARB; PYRIDABEN; PYRIDALYL; PYRIDAPHENTHION; PYRIDATE; PYRIFENOX; PYRIMETHANIL; PYRIOFENONE; PYRIPROXYFEN; PYROQUILON; QUINALPHOS; QUINCLORAC; QUINMERAC; QUINOCLAMINE; QUINOXYFEN; QUINTOZENE; QUIZALOFOP-ETHYL; QUIZALOFOP-P; Quizalofop-P-tefuryl; RESMETHRIN; RIMSULFURON; ROTENONE; S421; SAFLUFENACIL; SEBUTHYLAZINE; SEDAXANE; SETHOXYDIM; SIDURON; SILAFLUOFEN; SILTHIOFAM; SIMAZINE; SIMECONAZOLE; SIMETRYM; SPINETORAM; SPINOSAD; SPIRODICLOFEN; SPIROMESIFEN; SPIROTETRAMAT; SPIROTETRAMAT- ENOL-GLUCOSIDE; SPIROTETRAMAT- KETOHYDROXY; SPIROTETRAMAT- MONOHYDROXY; SPIROXAMINE;	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	SULCOTRIONE; SULFALLATE; SULFOXAFLOX; SULFENTRAZONE; SULFLURAMID; SULFOSULFURON; SULFOTEP; SULFUR; SULPROFOS; SWEP; TEBUCONAZOLE; TEBUFENOZIDE; TEBUFENPYRAD; TEBUPIRIMFOS; TEBUTAM; TEBUTHIURON; TECNAZENE; TEFLUBENZURON; TEFLUTHRIN; TEMBOTRIONE; TEMEPHOS; TEPP; TEPRALOXYDIM; TERBACIL; TERBUFOS; TERBUFOS-SULFONE; TERBUMETON; TERBUTHYLAZINE; TERBUTHYLAZINE, DESETHYL; TERBUTRYN; TETRACHLORVINPHOS; TETRACONAZOLE; TETRADIFON; TETRAHYDROPHTH ALIMIDE; TETRAMETHRIN; TFNA; TFNG; THIABENDAZOLE; THIACLOPRID; THIAMETHOXAM; THIDIAZURON; THIFENSULFURON- METHYL; THIFLUZAMIDE; THIOBENCARB; THIODICARB; THIOFANOX; THIOMETON; THIONAZIN; THIOPHANATE-	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables Grains and Cereals Cocoa and Derivatives (cont'd.)	METHYL; THIRAM; TIOCARBAZIL; THIOFANOX- SULFOXID; TOLCLOFOS-METHYL; TOLFENPYRAD; TOLYLFLUANID; TOPRAMEZONE; TRALKOXYDIM; TRALOMETHRIN; TRANSFLUTHRIN; TRIADIMEFON; TRIADIMENOL; TRI- ALLATE; TRIASULFURON; TRIAZAMATE; TRIAZOPHOS; TRIBENURON- METHYL; TRIBROMOPHENOL, 2,4,6; TRIBUFOS; TRICHLAMIDE; TRICHLORFON; TRICLOPYR; TRICYCLAZOLE; Tridemorph; TRIETAZINE; TRIFLOXYSTROBIN; TRIFLUMIZOLE; TRIFLUMIZOLE, FM-6-1; TRIFLUMURON; TRIFLURALIN; TRIFLUSULFURON- METHYL; TRIFORINE; TRITICONAZOLE; TRITOSULFURON; UNICONAZOLE; VALIFENALATE; VAMIDOTHION; VERNOLATE; VINCLOZOLIN; WARFARIN; XMC; ZOXAMIDE)	UNE-EN 15662:2019 (VALIDATED MODIFIED), 2023. Vegetarian food. Multiple method for the determination of pesticide residues by analysis based on GC and LC after extraction with acetonitrile and clean-up by dispersion SPE. QuEChERS Method. (cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits and Vegetables	Dithiocarbamates	SRM-14:2009 (VALIDATED MODIFIED), 2023. Analysis of Dithiocarbamate Residues in Foods of Plant Origin Involving Cleavage into Carbon Disulfide, Partitioning into Isooctane and Determinative Analysis by GC-ECD.
		Ethephon	EURL-SRM-09:2019 (VALIDATED MODIFIED), 2023. Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement.
	Grains and Cereals Fruits and Vegetables	Glyphosate	EURL-SRM-09:2019 (VALIDATED MODIFIED), 2023. Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement.
		Chlorates and Perchlorates	EURL-SRM-09:2019 (VALIDATED MODIFIED), 2023. Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement.
		Fosethyl AI	EURL-SRM-09:2019 (VALIDATED MODIFIED), 2023. Quick Method for the Analysis of Highly Polar Pesticides in Food Involving Extraction with Acidified Methanol and LC- or IC-MS/MS Measurement.
	Grains and Cereals, Derivatives Confectionery Products and Bakery Products Milk and Dairy Products	Mycotoxins	AOAC Official Method 999.07 (VALIDATED MODIFIED), 2023. Aflatoxin B1 and Total Aflatoxins in Peanut Butter, Pistachio Paste, Fig Paste, and Paprika Powder Immunoaffinity Column Liquid Chromatography with Post-Column Derivatization First Action 1999.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Fruits, Vegetables and Nuts. Drinks	Vitamin C	AOAC Official Method 2012.22, 22nd Edition. 2023 (VALIDATED MODIFIED), 2023. Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula by High-Performance Liquid Chromatography. Método HPLC con detector UV.
	Prepared Foods Drinks Fruits, Vegetables and Dry Products Cereals Grains, Legumes and Derivatives Eggs and Egg-Based Products Foods for Special Diet Dairy Products and Similar Products	Vitamin A	AACC International Method 86-06.01 (VALIDATED MODIFIED), 2023. Analysis of Vitamins A and E by High-Performance Liquid Chromatography.
	Fat Products Fruits, Vegetables and Dry Products Food for Special Diet Cereals Grains, Legumes and Derivatives	Vitamin E	AACC International Method 86-06.01 (VALIDATED MODIFIED), 2023. Analysis of Vitamins A and E by High-Performance Liquid Chromatography.
	Milk and dairy products Fruits, vegetables and nuts Confectionery products (Cocoa and Cocoa derivatives) Alcoholic beverages Meat and Meat Products Spices seasonings and sauces, Cereal grains, legumes and derivatives Bakery, pastry and biscuit product. prepared foods,	As, Cd, Pb, Se, Sb, B, Cr, Ba, Mo, Na, Mg, P, K, Ca, Mn, Fe, Cu, Zn., Al, Co, Ni, Sn	AOAC 2015.01 22nd Edition (VALIDATED), 2023. Heavy Metals in Food. Inductively Coupled Plasma-Mass Spectrometry.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOODS - (Lab Testing) (cont'd.)	Hydrobiological (fish)	As, Cd, Pb, Se, Sb, B, Cr, Ba, Mo, Na, Mg, P, K, Ca, Mn, Fe, Cu, Zn, Al, Co, Ni, Sn (cont'd.)	AOAC 2015.01 22nd Edition (VALIDATED), 2023. Heavy Metals in Food. Inductively Coupled Plasma-Mass Spectrometry. (cont'd.)
	Milk and dairy products Fruits, vegetables and nuts Confectionery products (Cocoa and Cocoa derivatives) protein concentrate Alcoholic beverages Meat and Meat Products Spices seasonings and sauces, Cereal grains, legumes and derivatives Bakery, pastry and biscuit product. prepared foods	Hg	EPA 7473 (VALIDATED MODIFIED), 2023. Mercury In Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry.
	Fruits and vegetables; Processed, dehydrated, concentrated, and similar foods based on fruits and vegetables; cereal, flour.	Dithiocarbamates	SRM-14/(V3.2) (Validated-Modified), 2025. Analysis of residues of dithiocarbamate fungicides in low-oil content food of plant origin involving cleavage into carbon disulfide, partitioning into isooctane and measurement by GC-MS/MS or GC-ECD
	Processed, dehydrated, concentrated, and similar foods based on fruits; fatty products such as oils; flour and cereals	Hg	EPA 7473 (Validated- Modified and Applied out of reach), 2025. Mercury In Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry.

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ENVIRONMENTAL – MECHANICAL (Field Measurement)	Vibration in structures	Structural vibration	NTP-ISO 4866:2013 (revised 2019). Vibrations and mechanical shocks. Vibration of fixed structures. Guidelines for measuring vibrations and evaluating their effects on structures. 1st edition