



SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-475
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Effective Date of Scope	December 19, 2018
Accreditation Standard	ISO/IEC 17025:2005

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE		
Elemental Analysis	Metallic Ores and High Grade Material	Multi-Element Analysis (Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sn, Sr, Ti, Tl, V, Zn)	PE-4017, Sample Preparation		
			PE-4041, Aqua Regia digestion		
			PE-4042, ICP-AES Analysis		
	Metallic Ores	Multi-Element Analysis (Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sn, Sr, Ti, Tl, V, Zn)	Multi-Element Analysis (Ag, Al, As, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sn, Sr, Ti, Tl, V, Zn)	PE-4017, Sample Preparation	
				PE-4041, 4 Acids digestion	
				PE-4043, ICP-AES Analysis	
		Metallic Ores	Gold and Silver	Gold and Silver	PE-4017, Sample Preparation
					PE-4008, AA Analysis and Fire Assay
					PE-4014, ICP-OES Analysis and Fire Assay
		Metallic Ores	Total S	Total S	PE-4017, Sample Preparation
					PE-4408, Elemental Analyzer
		Metallic Ores	Wolframium	Wolframium	PE-4017, Sample Preparation
	PE-4019, ICP-MS Analysis and Acid Digestion				
	Geochemical Samples	Geochemical Samples	Multi-Element Analysis (Ag, Al, As, Ba, Be, Bi, Cd, Co, Cr, Cu, Fe, Ga, Hg, Li, Mn, Mo, Ni, P, Pb, Se, Sb, Sc, Sn, Sr, Te, Ti, Tl, V, Zn)	PE-4017, Sample Preparation	
				PE-4034 ICP-MS Analysis and Acid Digestion	
Geochemical samples and metallic ores	Geochemical samples and metallic ores	Neutralization Potential Sobek (NP)	PE-4402, Sobek et Al. Method (1987)		
			Neutralization Potential Lawrence (NP)		
			PE-4403, Lawrence & Wang Method (1996)		
Geochemical samples and metallic ores	Sulphate Sulphur by carbonate, weak hydrochloric acid or	Sulphate Sulphur by carbonate, weak hydrochloric acid or	PE-4404, Elemental Analyzer		



SCOPE OF ACCREDITATION

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
Elemental Analysis (continued)	Geochemical samples and metallic ores (continued)	concentrate nitric acid leaching	
		Acid and neutralization Potential	PE-4407, prEN15875:2008
		Total Sulphur	PE-4408, Elemental Analyzer
		Fizz Rating	PE-4409, Fizz Rating
		Net generation Acid	PE-4413, NAG Method (1997)
		Paste pH	PE-4416, EPA 600/2-78- 054
		Sulphide Sulphur by Combustion and Elemental IR analysis	PE-4417, Elemental Analyzer
Gravimetric and Volumetric Analysis	Metallic Ores	Total Sulphate	PE-4017, Sample Preparation PE-4005, Gravimetric Methods
	High Grade Material	Copper	PE-4009, Volumetric Methods
		Zinc	PE-4010, Volumetric Methods
		Lead	PE-4011, Volumetric Methods
		Iron	PE-4012, Volumetric Methods
Calculation	Metallic Ores	Total Sulphide	PE-4016, Calculation Methods
Elemental Analysis	Metallic Ores	Multi-Element Analysis (Al, Ca, Cr, Fe, K, Mg, Mn, P, Si)	PE-4017, Sample Preparation PE-4006, ICP-OES and Alkaline Fusion/ Acid Digestion
		Acid Soluble Cooper	PE-4020, ICP-OES Analysis and Acid Extraction
		Cyanide Soluble Cooper	PE-4021, ICP-OES Analysis and Cyanide Extraction
		W	PE-4022, ICP-OES Analysis and Acid Digestion
		Uranium and Thorium	PE-4023, ICP-MS Analysis and 4 Acids Digestion
Elemental Analysis	Waters (all type)	Element Analysis (Al, Ag, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si,	PE-2107 Determination of Elements by plasma emission spectrophotometry



SCOPE OF ACCREDITATION

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
		Sn, Sr, Ti, Tl, V, Zn)	
Ion chromatography	Water	Bromates, Bromides, Chlorite, Chlorate,	PE-2090
Volumetric Titration	Water	Carbonates, Bicarbonates	PEC-011
Discrete Analyzer UV-Vis	Water (all types)	Ammonium	PE-2104
		Chromium VI	
		Free Chlorine	
		Total Chlorine	
		Fluoride	
		Phosphate	
		Sulfate	
Pesticide Residue Analysis by GC-MS/MS & LC-MS/MS	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/ Fatty Matrices, Wine	Pesticides Residues	PE-674 Determination of pesticide using Chromatography (GC-MS/MS & LC-MS-MS)
Chromatography LC-MS/MS	Fish, Canned Fish and Wine	Hystamine	PE-516
	Nuts	Aflatoxins (B1, B2, G1, G2)	PE-519
	Coffee, Wine, Beer and Dried Fruits Nuts	Ocratoxin A	PE-520
	Cereal and processed cereal-based foods (low fat content)	Micotoxins	PE-505
PFPD Chromatography	Fruits, Vegetables	Dithiocarbamates (as CS ₂)	PE-641
Chromatography LC-MS/MS	Fruits and Vegetables	Quaternary ammonium salts	PE-655
	Fruits and Vegetables	Etephon, chlorate, perchlorate, fosestil and phosphonic acid	PE-690
Detection and Confirmation	Drinking Water	Plate Count of Aerobic Microorganisms at 22°C	PE-401
Count (Filtration)	Water (all types)	Total Coliform Count	PE-402
		Fecal Coliform Count	PE-403
		Escherichiacoli Count	PE-425
		Intestinal Enterococci Counts	PE-423
		Clostridium Perfringens Count	PE-433
Count	Food	Plate Count of Aerobic Microorganisms at 30° C	PE-407
		Plate Count of Staphylococcus Aureus	PE-417
		Plate Count of Escherichia Coli	PE-410
		Plate Count of Enterobacterias	PE-408
		Plate Count of Total Coliform	PE-409
		Plate Count Listeria Monocytogenes	PE-456
	Water	Pseudomonas aureginosa	PE-424



SCOPE OF ACCREDITATION

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
Investigation	Food	Bacteria at 36°C	PE-401
		Legionella	PE-451
		Salmonella Spp.	PE-413
		Listeria Monocytogenes	PE-428
		Water	Salmonella
CG-MS/MS Chromatography	Clean water	Pesticides Residues, PAH, PCBs	PE-666
LC-MS/MS Chromatography	Drinking Water	Microcystins	PE-661
		Acrylamide	PE-663
Chromatography LC-MS/MS	Clean Water	Glyphosate, Glufosinate, AMPA	PE-679
CG-MS/MS Chromatography	Water (all type)	Pesticides Residues, PAH, PCBs	PE-687
LC-MS/MS Chromatography	Clean Waters	Pesticides Residues	PE-678
GC-MS/MS Chromatography	Clean Waters	Chloralkanes	PE-675
Immunoassay by ELISA (Enzyme-Linked ImmunoSorbent Assay)	Food	Allergens	PE-2115
Immunoassay by ELISA (Enzyme-Linked ImmunoSorbent Assay)	Food	Gluten	PE-2114
Calcination/ Gravimetry	Food	Ash	PE-355
Enzymatic Digest	Food	Total Dietary Fiber	PE-279
NMR (Nuclear Magnetic Resonance)	Food	Total Fats and humidity	PE-2117
ICP-MS	Food	Toxic Metals (As, Ba, Cd, Cr, Cu, Fe, Hg, Li, Ni, Pb, Sb, Se, Sn, Zn)	PE-324
ICP-OES	Food	Nutritionals Metals (Ca, Na, Fe, K, Mg, P, Zn)	PE-2116
Elementary Analyzer	Food	Protein	PE-987
Liquid scintillation counting	Drinking water	Radon	PE-2113
Leaching	Residues	Leaching	UNE-EN 12457-4
Gravimetry	Residues	Humidity. Determination of dry residue and water content	UNE-EN 12880
Potentiometry by selective ion	Leachates Residues/ Leachates according to UNE-EN 12457-2:2003 and UNE-EN 12457-	Flouride	UNE-ISO 10359-2
Potentiometry		pH	PEC-001
ion chromatography		Sulphates and Chlorides	EN-ISO 10304-1



SCOPE OF ACCREDITATION

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE	
Atomic absorption spectroscopy (cold vapor)	4:2003 and its erratum (UNE-EN 12457-4:2006) Standard	Hg by cold vapor method	UNE-EN ISO 17852	
Gravimetry		Total Dissolved Solids	UNE-EN 15216	
Spectrophotometric method by UV absorption		Phenols	UNE-ISO 6439	
HP1 Explosiveness	Residues	Explosive properties	REACH A.14	
HP2 Comburence		Oxidizing properties in Solid Residues	REACH A.17	
		Oxidizing properties in Liquid Residues	REACH A.21	
HP3 Inflammability		Flash-Point in Liquid Residues	REACH A.9	
		Flammability in Solid Residues	REACH A.10	
		Flammability (Contact with water)	REACH A.12	
Induction Coupled Plasma		Multi-Element Analysis (Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Se, Sb, Si, Sn, Sr, Tl, U, V, Zn)	PE-951 PE-325	
Spectrophotometric method UV absorption		Cr VI	PE-2183	
Potentiometry		pH in aq. Extract	PEC-001	
Gravimetry		Sampling media for atmospheric emissions from stationary sources	Particles in filters and washing solutions	UNE EN 13284-1:2002 Ap. 7, 6.4
Ion chromatography	Sulfur dioxide (SO ₂)		UNE 14791:2006 Ap 5 (except 5.6), 8.1, 9.2 y 10.2.3	
Potentiometry by selective ion	Gas fluorides (HF and F)		UNE-ISO 15713:2007 Ap. 5 y 8	
ICP-MS by 4 acid digestion	As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V in filters, Capture solution and cleaning solution		PE-303 UNE-EN 14385:2004 Apdos 5.1.3, 8.6, 8.7 (excepto 8.7.3.2) y 8.8	
Atomic absorption spectroscopy (cold vapor)	Mercury		UNE-EN 13211:2001 Apdo 6.3.2,6.3.3 ,6.4 (excepto 6.4.3), 7.7, 7.8y 7.9	
Gravimetry	Sampling media for ambient air		Total particles in filter	Orden 10/08/1976 (BOE n° 266 05/11/1976) Anexo 4, Apartado 1 y 2 Decreto 151/2006 del 25 de julio BOJA n°147. Anexo 2- Ap.A PE-2185
			Setteable particles	Orden de 10 de agosto de 1976



SCOPE OF ACCREDITATION

FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
			(Anexo 5) Decreto 151/2006 del 25 de julio BOJA nº147. Anexo 2- Apartado B
		Soluble particles	PE-2185
		Non-soluble particles	
		PM 10 particles	UNE-EN 12341:2015 Apartado 5.2, 6.1, 6.2, 6.4, 6.5, 6.6 Anexo E UNE-EN 12341:1999 Anexo C
		PM 2.5 particles	UNE-EN 12341:2015 Apartado 5.2, 6.1, 6.2, 6.4, 6.5, 6.6 Anexo E UNE-EN 14907:2006 Apdo 5.2, 6 (excepto 6.4) 7.3.4 y 7.4
Spectrophotometric method by UV absorption		Ammonia	PE-2181
		Sulphur	PE-2182
Potentiometry	Soil	pH	PEC-001
Electrometry	Soil	Electrical Conductivity	PEC-002
Thermal conductivity	Soil	Total Nitrogen (Dumas Method)	PEC-034



SCOPE OF ACCREDITATION



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