



## SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-475
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Effective Date of Scope	April 11, 2017
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)	Gold and Silver	PE-4017, Sample Preparation
				PE-4041, 4 Acids digestion
				PE-4043, ICP-AES Analysis
		Total S	Wolframium	PE-4017, Sample Preparation
				PE-4008, AA Analysis and Fire Assay
				PE-4014, ICP-OES Analysis and Fire Assay
	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	Neutralization Potential Sobek (NP)	Neutralization Potential Lawrence (NP)	PE-4402, Sobek et Al. Method (1987)
				PE-4403, Lawrence & Wang Method (1996)
				PE-4404, Elemental Analyzer
				PE-4407, prEN15875:2008



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FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
Elemental Analysis (continued)	Geochemical samples and metallic ores	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
Gravimetric and Volumetric Analysis	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, Sn, Sr, Ti, Tl, V, Zn)	PE-2107 Determination of Elements by plasma emission spectrophotometry
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	
		Nitrite	
		Sulfate	



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FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
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	Ocratoxin A	PE-520
	Cereal, Nuts	Micotoxins	PE-505
UV/Vis Spectrophotometry	Fruits, Vegetables	Dithiocarbamates (as CS <sub>2</sub> )	PEC-032
PFPD Chromatography	Fruits, Vegetables	Dithiocarbamates (as CS <sub>2</sub> )	PE-641
Detection and Confirmation	Drinking Water	Plate Count of Aerobic Microorganisms at 22°C	PE-401
Count (Filtration)	Water (all type)	Total Coliform Count	PE-402
		Fecal Coliform Count	PE-403
		Escherichia coli 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
Investigation	Food	Salmonella Spp.	PE-413
		Listeria Monocytogenes	PE-428
Investigation	Water	Salmonella	PE-421
Count	Water	Pseudomonas aureginosa	PE-424
Count	Water	Bacteria at 36°C	PE-401
Count	Water	Legionella	PE-451
CG-MS/MS Chromatography	Clean water	Pesticides Residues, PAH, PCBs	PE-666
CG/MS Chromatography	Water (all type) and Soils	Chlorophenols+Cresols	PE-667
LC-MS/MS Chromatography	Drinking Water	Microcystins	PE-661
LC-MS/MS Chromatography	Drinking Water	Acrylamide	PE-663
Chromatography LC-MS/MS	Water	Glyphosate, Glufosinate, AMPA	PE-679
CG-MS Chromatography	Water (all type)	Pesticides Residues, PAH, PCBs	PE-615
CG-MS/MS Chromatography	Water (all type)	Pesticides Residues, PAH, PCBs	PE-687
LC-MS/MS Chromatography	Clean Waters	Pesticides Residues	PE-678



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<b>FIELDS OF TESTING</b>	<b>MATERIAL</b>	<b>DETERMINANTS</b>	<b>METHODS REFERENCE</b>
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, Fe, K, Mg, P, Zn)	PE-2116
Elementary Analyzer	Food	Protein	PE-987
Liquid scintillation counting	Drinking water	Radon	PE-2113