

International Accreditation Service
CERTIFICATE OF ACCREDITATION

This is to signify that

LABS & TECHNOLOGICAL SERVICES AGQ S L

CTRA A-423 KM24.3
BURGUILLOS (SEVILLA) 41220
SPAIN
Testing Laboratory TL-475
(Revised September 14, 2015)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing September 11, 2015, for the test methods listed in the approved scope of accreditation.

Patrick V. McCullen

Patrick V. McCullen
Vice President, Chief Technical Officer

C. P. Ramani

C. P. Ramani, P.E.
President



(see attached scope of accreditation for fields of testing and accredited test methods)

Print Date: 9/29/2015

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.
See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.*

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SCOPE OF ACCREDITATION

Labs & Technological Services AGQ S L TL-475
(Revised September 14, 2015)

Labs & Technological Services AGQ S L
Ctra A-423 Km 24.3
Burguillos (Sevilla) 41220
Spain

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Lab Manager
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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-4006, ICP-OES and Aqua Regia Digestión
	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)	PE-4017, Sample Preparation
			PE-4006, ICP-OES and 4 Acid Digestion
			PE-4017, Sample Preparation
			PE-4008, AA Analysis and Fire Assay
			PE-4017, Sample Preparation
			PE-4014, ICP-OES Analysis and Fire Assay
			PE-4017, Sample Preparation
			PE-4408, Elemental Analyzer
			PE-4017, Sample Preparation
			PE-4019, ICP-MS Analysis and Acid Digestion
	Geochemical Samples	Multi-Element Analysis (Ta, Nb, Sn, W, Sb, V, Zr, U, Th)	PE-4017, Sample Preparation
PE-4035, ICP-MS Analysis and Lithium Metaborate Fusion			
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	

September 11, 2015
Commencement Date



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FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
Elemental Analysis	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)
		Sulphate Sulphur by carbonate, weak hydrochloric acid or concentrate nitric acid leaching	PE-4404, Elemental Analyzer
		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.
		High Grade Material	Gold, Silver, Palladium and Platinum
Gravimetric and Volumetric Analysis	Metallic Ores	Total Sulphate	PE-4017, Sample Preparation
			PE-4005, Gravimetric Methods
	Metallic Ores	Elemental S	PE-4017, Sample Preparation
			PE-4004, 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

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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
Pesticide Residue Analysis by GC-MS/MS	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/ Fatty Matrices, Wine	Pesticides Residues	PE-614, Determination of pesticide using Chromatography (GC-MS-MS)
Pesticide Residue Analysis by LC-MS/MS	Fruits, Vegetables, Nuts, Cereal & Dried Fruit, Oils/ Fatty Matrices, Wine	Pesticides Residues	PE-618, Determination of pesticide using Chromatography (LC-MS-MS)
Chromatography LC-MS/MS	Fish, Canned Fish and Wine	Hystamine	PE-516
	Nuts	Aflatoxins (B1, B2, G1, G2)	PE-519
Chromatography LC-MS/MS	Coffee, Wine, Beer and Dried Fruits	Ocratoxin A	PE-520
	Cereal, Nuts	Micotoxins	PE-505
UV/ Vis Spectrophotometry	Fruits, Vegetables	Dithiocarbamates (as CS ₂)	PEC-032
CG/MS Chromatography	Fruits, Vegetables	Dithiocarbamates (as CS ₂)	PE-641
Ion chromatography	Drinking Water	Bromates	PE-2070
Detection and Confirmation	Drinking Water	Plate Count of Aerobic Microorganisms at 22°C	PE-401
Detection and Confirmation	Water (all type)	Total Coliform Count(Filtration)	PE-402
		Fecal Coliform Count(Filtration)	PE-403
		Escherichiacoli Count (Filtration)	PE-425
		Intestinal Enterococci Counts (Filtration)	PE-423
		Clostridium Perfringens Count (Filtration)	PE-433

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FIELDS OF TESTING	MATERIAL	DETERMINANTS	METHODS REFERENCE
Detection and Confirmation	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		Salmonella Spp. Investigation	PE-413
		Listeria Monocytogenes Investigation	PE-428
CG/MS Chromatography		Water (all type)	Pesticides Residues, PAH, PCBs
CG/MS Chromatography	Water (all type) and Soils	Chlorophenols+Cresols	PE-667
LC/MS Chromatography	Drinking Water	Microcystins	PE-661
LC/MS Chromatography	Drinking Water	Acrylamide	PE-663

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