

**Single-Pass Analysis for Gold and Associated Elements****Fire Assay / Lead Collection / Instrumental Finish****Fire Assay with Lead Collection, Cupellation and Bead Digest**

Quantitative determination of Gold utilising optimum ratios of appropriate fluxing agents and fusion at high temperature. Semi-quantitative recovery of Platinum and Palladium.

Detection limits in ppm unless otherwise stated

A scheme of controls samples is applied to every batch of samples, this includes duplicates, standards and blanks

Description	Code	Price	Unit
Fire Assay Fusion – 50g Sample Charge	FAPB50	10.50	Sample
<b>Elements and Detection Limits: Flame AAS</b>		<b>Elements and Detection Limits: ICP-OES</b>	
Au 0.01		Au 0.08	
		Pt 0.03	
		Pd 0.02	
Description	Code	Price	Unit
Fire Assay Fusion – 30g Sample Charge	FAPB30	9.00	Sample
<b>Elements and Detection Limits: Flame AAS</b>		<b>Elements and Detection Limits: ICP-OES</b>	
Au 0.02		Au 0.13	
		Pt 0.05	
		Pd 0.03	
Cost Per Element Analysed (per Instrument)			
Elements	Price	Unit	
1	1.50	Sample	
2	3.00	Sample	
3	4.00	Sample	

Notes:

**Quantity Discounts Available – Talk to Us  
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Price List Effective 1.01.09 All Prices in U.K. Pounds  
Minimum Invoice value £100.00 All Prices Subject to VAT  
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## Single-Pass Multi-Element Analysis

### 4-Acid Digest and Analysis by ICP-OES & ICP- MS

#### 4-Acid Digest

Quantitative dissolution of base metals for the majority of geological materials.

More resistant metals such as Chrome, Titanium, Magnesium, Zirconium and Tungsten are only partially digested, yielding a qualitative result only.

Description	Code	Price	Unit
4-Acid Digest - 0.200g Assay Charge	ADBM4	4.40	Sample

Detection limits in ppm unless otherwise specified. Lower detection limits are available at additional cost. Please discuss your requirements with our Technical Team.

Elements and Detection Limits ICP- OES	
Ag 10	Mo 10
Al 40	Na 25
As 40	Ni 10
Ba 5	P 60
Bi 30	Pb 35
Ca 20	Sb 30
Cd 10	Sn 20*
Co 5	Sr 1
Cr 5*	Ti 5
Cu 5	V 5
Fe 0.01 %	W 10
K 20	Y 2
Mg 20	Zn 5
Mn 5	Zr 10
All detection limits expressed in ppm * Denotes possible incomplete digestion	

Cost Per Element Analysed					
Elements	Price	Unit	Elements	Price	Unit
1	3.30	Sample	11	11.90	Sample
2	4.20	Sample	12	12.40	Sample
3	5.10	Sample	13	12.90	Sample
4	6.00	Sample	14	13.40	Sample
5	6.90	Sample	15	13.90	Sample
6	7.80	Sample	16	14.40	Sample
7	8.70	Sample	17	14.90	Sample
8	9.60	Sample	18	15.40	Sample
9	10.50	Sample	19	15.90	Sample
10	11.40	Sample	20	16.40	Sample

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## Single-Pass Multi-Element Analysis

### Wave Dispersive XRF from Pressed Powder Pellet and Fused Bead

Description	Code	Price	Unit
Pressed Powder Pellet Preparation	XRFPP	2.50	Sample
Fused Bead Preparation (includes LOI)	XRFBEAD	3.50	Sample

Detection limits in ppm unless otherwise specified.

Lower detection limits are available at additional cost.

Please discuss your requirements with our Technical Team.

Example of Detection Limits Analysis of Nickel Laterites in Pressed Powder Pellet		Example of Detection Limits Analysis of Iron Ores in Fused Bead	
Ni	20ppm	Fe <sub>2</sub> O <sub>3</sub>	.01%
Co	10ppm	MgO	.01%
MgO	40ppm	Al <sub>2</sub> O <sub>3</sub>	.01%
Al <sub>2</sub> O <sub>3</sub>	40ppm	SiO <sub>2</sub>	.002%
SiO <sub>2</sub>	300ppm	P	.001%
CaO	10ppm	S	.001%
TiO <sub>2</sub>	20ppm	K <sub>2</sub> O	.003%
MnO	20ppm	TiO <sub>2</sub>	.001%
Fe <sub>2</sub> O <sub>3</sub>	50ppm	MnO	.0005%
Cu	50ppm	Co	.0005%
Zn	10ppm	Ni	.0005%
Cr	10ppm	Cu	.0003%
		Ca	.003%

### Cost Per Element Analysed (per sample type)

Elements	Price	Unit	Elements	Price	Unit
1	3.50	Sample	11	12.00	Sample
2	4.00	Sample	12	13.00	Sample
3	4.50	Sample	13	14.00	Sample
4	5.00	Sample	14	15.00	Sample
5	6.00	Sample	15	16.00	Sample
6	7.00	Sample	16	17.00	Sample
7	8.00	Sample	17	18.00	Sample
8	9.00	Sample	18	19.00	Sample
9	10.00	Sample	19	20.00	Sample
10	11.00	Sample	20	21.00	Sample

### Single-Pass Whole Rock Geochemistry from Fused Bead

This analysis reports all the major oxides in a geological matrix. Often referred to as "Whole Rock Analysis" Al<sub>2</sub>O<sub>3</sub> BaO CaO Cr<sub>2</sub>O<sub>3</sub> Fe<sub>2</sub>O<sub>3</sub> K<sub>2</sub>O MgO MnO Na<sub>2</sub>O P<sub>2</sub>O<sub>5</sub> SiO<sub>2</sub> SrO TiO<sub>2</sub> plus Loss On Ignition (LOI) Fused Bead Preparation, LOI Determination and XRF Analysis

<b>XRF Whole Rock Analysis</b>	XRFWR	44.00	Sample
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