



KALASSAY GROUP

Specialist Assayers to the Mining Industry



a member of the Inspectorate group of companies

Sample Preparation

Sorting and Drying	Code	Price	Unit
Sorting and Boxing of Samples, received as pulps	SORTBOX	0.00	Sample
Sorting and Drying of Samples, prior to preparation	SORTDRY	0.00	Sample
Reporting of Sample Weight, as received	WEIGHIN	1.00	Sample
Primary Crushing	Code	Price	Unit
Standard Jaw Crushing <3kg to nominal minus 6mm	JAWC	1.75	Sample
Boyd Jaw Crushing <3kg to nominal minus 3mm	BOYD	2.25	Sample
Sample Reduction	Code	Price	Unit
Riffle Splitting <6kg down to <3kg	SPLITRIF	1.75	Sample
Rotary Splitting <6kg down to <3kg	SPLITROT	2.21	Sample
Pulverising – Conventional			
<ul style="list-style-type: none"> • Kalassay grinding specification is 90% passing 75um • Grinding of the sample incorporates thorough mixing to achieve homogeneity and produce a statistically representative sub-sample • Pulverising performance is tracked by regular wet screening • Screening Ratio: one screen per 50 samples pulverised <p>This service is performed for every job and is provided at no charge to the client</p> <ul style="list-style-type: none"> • Quartz washes are performed before every batch of samples <p>This service is performed for every job and is provided at no charge to the client</p>			
	Code	Price	Unit
Drying and Pulverising of up to 3kg of Sample	PULV_SUBLM5	8.30	Sample
Drying and Pulverising of up to 800g of Sample	PULV_SUBLM2	7.25	Sample
Repulverising of Pulp Samples	REPULVLM2	3.36	Sample
Pulverising and Ashing of Biological Sample	PULVASHBIO	38.06	Sample
Pulverising and Ashing of Carbon sample	PULV_ASH	40.95	Sample
Barren Quartz wash introduced between samples and pulverised to clean bowl. Inserted as instructed by client	WASH	5.41	Each
Waste Disposal (not applicable to pulp samples)	CTD	0.30	Sample
Storage of Pulp Samples – Per Pallet, Per Month	STOREPULP	7.67	Pallet
Storage of Reject Samples – Per Pallet, Per Month	STOREREJECT	7.67	Pallet

**Quantity Discounts Available – Talk to Us
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Price List Effective 1.08.08 All Prices Subject to GST ©Leonora Laverton Assay Laboratory Pty Limited

Perth Assay Laboratory

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Sample Preparation

Sample Preparation - Robotic

Kalassay has invested heavily in providing it's customers with the very latest in robotic technology. Our fully integrated Sample Preparation and Fire Assay System can take a process a 4kg sample and without further manual intervention produce an analytical result.

The sample preparation side of the system can be used to prepare samples for other assay methods.

	Code	Price	Unit
Fine Crush to minus 1mm, Split to 1-1.2kg, Pulverise to 90% Passing 75um. Sample Size <4kg	FIFAPREP1	7.77	Sample
Coarse Crush to minus 3mm Fine Crush to minus 1mm, Split to 1-1.2kg, Pulverise to 90% Passing 75um. Sample Size <4kg	FIFAPREP2	8.14	Sample
Quartz wash inserted between samples, inserted by robotic system as instructed by client	FIFAWASH	3.40	Each

Additional Services

	Code	Price	Unit
Core Cutting and Sampling (includes supply of calico bags)	CORE	140.00	Hour
Quarantine Treatment - Pulps	QUARPULP	1.00	Sample
Quarantine Treatment – Bulk Samples	QUARBULK	2.36	Sample
Specific Gravity Determination – Rock / Core Samples Walker's Steelyard Method	SGROCK	13.00	Sample
Specific Gravity Determination – Pulp Samples Pycnometer method	SGPULP	32.97	Sample
Screening of Samples as instructed by client	SIZING	134.40	Hour
Quality Assurance Surcharge (only applicable to batches of less than 20 samples)	QAS	30.00	Batch

Hazardous Sample Types

Kalassay employs special hazard management protocols to protect our employees, contractors and the environment from potentially hazardous materials	Code	Price	Unit
Hazardous Sample Handling	HAZSAM	1.52	
Hazardous Waste Disposal (not applicable to samples received as pulps)	HAZWAS	0.58	Sample

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Analysis for Gold and Associated Elements

Fire Assay / Lead Collection

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

	Code	Price	Unit
Fire Assay Fusion – 40g Sample Charge	FAF1	9.53	Sample
Elements and Detection Limits - ICP- OES	Elements and Detection Limits - ICP- MS		
Au 0.01	Au 0.001		
Elements and Detection Limits - Flame AAS	Pd 0.001		
Au 0.01	Pt 0.001		

(All detection limits expressed in ppm)

Cost Per Element Analysed (per Instrument)			
Elements	Price	Unit	
1	2.73	Sample	
2	3.99	Sample	
3	5.25	Sample	

Cyanide Leach

Cyanide Leach using accelerated Cyanide Leach Solution (LeachWell™)

A popular method for the determination of cyanide extractable Gold.

The large sample size is very useful for reducing sampling error and mitigating the statistical effects of coarse Gold in the sample. Instrumental finish is by Flame AAS

	Code	Price	Unit
Accelerated Cyanide Leach – 400g Sample Charge	CLASS1	10.29	Sample
Accelerated Cyanide Leach – 200g Sample Charge	CLASS2	8.93	Sample
Neutralisation and Disposal of Cyanide Slurry	HAZWAS	0.58	Sample
Flame AAS Analysis. Lower Detection Limit = 0.01ppm Au	AAS01	2.73	Sample

Cyanide Leach - Residual Solids Analysis

	Code	Price	Unit
Residual Solids Recovery and Processing (inc ICP-OES)	FARES	8.93	Sample
Fire Assay Fusion of Residual Solids - 40g Sample Charge	FAF1	9.53	Sample

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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 attacked.

	Code	Price	Unit
4-Acid Digest	ADB4	6.00	Sample

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

* Indicates possible incomplete digestion

Elements and Detection Limits ICP- OES		Elements and Detection Limits ICP- MS		
Ag 10	Na 20	Ag 0.05	Hf 0.01	Sc 0.1
Al 20	Ni 5	As 0.1	Hg 0.05	Se 0.1
As 10	P 20	Ba 0.1	Ho 0.005	Sm 0.005
Ba 5	Pb 5	Be 0.01	In 0.01	Sn 0.05*
Bi 10	S 100	Bi 0.01	La 0.01	Sr 0.01
Ca 20	Sb 10	Cd 0.05	Li 0.05	Ta 0.01*
Cd 10	Sn 10*	Ce 0.01	Lu 0.005	Tb 0.005
Co 5	Sr 1	Co 0.05	Mo 0.05	Te 0.01
Cr 5*	Ti 5	Cr 0.1*	Nb 0.01	Th 0.01
Cu 5	V 5	Cs 0.01	Nd 0.01	Ti 0.01
Fe 0.01 %	W 10	Cu 0.01	Ni 0.01	Tm 0.005
K 20	Y 2	Dy 0.005	P 0.1	U 0005
Mg 20	Zn 5	Er 0.005	Pb 0.1	W 0.1
Mn 5	Zr 10	Eu 0.005	Pr 0.005	Y 0.01
Mo 10		Ga 0.01	Rb 0.05	Yb 0.01
		Gd 0.005	Re 0.005	Zn 0.01
		Ge 0.05	Sb 0.05	Zr 0.05*

All detection limits expressed in ppm

* Denotes possible incomplete digestion

Cost Per Element Analysed (per Instrument)

Elements	Price	Unit	Elements	Price	Unit
1	2.73	Sample	11	12.81	Sample
2	3.99	Sample	12	13.65	Sample
3	5.25	Sample	13	14.49	Sample
4	6.30	Sample	14	15.33	Sample
5	7.35	Sample	15	15.96	Sample
6	8.40	Sample	16	16.59	Sample
7	9.45	Sample	17	17.22	Sample
8	10.29	Sample	18	17.85	Sample
9	11.13	Sample	19	18.48	Sample
10	11.97	Sample	20	19.11	Sample

20+ Elements by ICP-MS & ICP-OES \$30.00

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Gold and Multi-Element Analysis

Aqua Regia Digest and Analysis by ICP- OES & ICP- MS

Aqua Regia Digest

Suitable for dissolution of the majority of geological materials. Provides semi-quantitative dissolution of Gold, Platinum and Palladium. Major rock-forming minerals and resistive metals are only partially dissolved. Disposable digestion vessels are used to eliminate contamination from the reuse of beakers.

	Code	Price	Unit
Aqua Regia Digest – 40g Sample (All Elements)	ADAR1	5.44	Sample
Aqua Regia Digest – 30g Sample (All Elements)	ADAR2	5.19	Sample
Aqua Regia Digest – 1g Sample (for Base Metals analysis only - not for Au or PGE's)	ADAR3	4.25	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		Elements and Detection Limits ICP- MS		
Ag 10	Mg 0.01%*	Ag 0.05	Hf 0.01	Sb 0.01*
Al 10	Mn 10	As 0.1	Hg 0.05	Sc 0.1*
As 10	Na 50*	Au 0.001	Ho 0.005*	Se 0.1
Ba 5*	Ni 5	Ba 0.1*	In 0.01	Sm 0.005*
Bi 5	P 10	Be 0.01	La 0.01*	Sn 0.05*
Ca 5*	Pb 5	Bi 0.01	Li 0.05	Sr 0.01*
Cd 10	S 50*	Cd 0.005	Lu 0.005	Ta 0.01*
Co 5	Sb 5	Ce 0.01*	Mo 0.01	Tb 0.005*
Cr 5*	Ti 5*	Co 0.05*	Nb 0.01*	Te 0.005*
Cu 5	V 5*	Cr 0.1*	Nd 0.005*	Th 0.01*
Fe 0.01 %*	W 10*	Cs 0.01*	Ni 0.01	Ti 0.01*
K 20	Zn 5*	Cu 0.01*	P 0.1	Tm 0.005*
		Dy 0.005*	Pb 0.1	U 0.01*
		Er 0.005*	Pd 0.001	W 0.1*
		Eu 0.005*	Pr 0.005*	Y 0.01*
		Ga 0.01	Pt 0.001	Yb 0.005*
		Gd 0.005*	Rb 0.05*	Zn 0.01
		Ge 0.05	Re 0.005*	Zr 0.05*

All detection limits expressed in ppm

* Denotes possible incomplete digestion

Cost Per Element Analysed (per instrument)

Elements	Price	Unit	Elements	Price	Unit
1	2.73	Sample	11	12.81	Sample
2	3.99	Sample	12	13.65	Sample
3	5.25	Sample	13	14.49	Sample
4	6.30	Sample	14	15.33	Sample
5	7.35	Sample	15	15.96	Sample
6	8.40	Sample	16	16.59	Sample
7	9.45	Sample	17	17.22	Sample
8	10.29	Sample	18	17.85	Sample
9	11.13	Sample	19	18.48	Sample
10	11.97	Sample	20	19.11	Sample

20+ Elements by ICP-MS & ICP-OES \$30.00

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Multi-Element Analysis

Wave Dispersive XRF from Pressed Powder Pellet and Fused Bead

	Code	Price	Unit
Pressed Powder Pellet Preparation	XRFPP	5.50	Sample
Fused Bead Preparation	XRFBEAD	7.00	Sample
Fused Bead Preparation & Thermo-Gravimetric Analysis (TGA)	KFAXPREP	14.00	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 ₂ O ₃	.01%
Co	10ppm	MgO	.01%
MgO	40ppm	Al ₂ O ₃	.01%
Al ₂ O ₃	40ppm	SiO ₂	.001%
SiO ₂	300ppm	P	.001%
CaO	10ppm	S	.001%
TiO ₂	20ppm	K ₂ O	.003%
MnO	20ppm	TiO ₂	.001%
Fe ₂ O ₃	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	5.46	Sample	11	15.86	Sample
2	6.20	Sample	12	16.80	Sample
3	7.20	Sample	13	17.75	Sample
4	8.20	Sample	14	18.69	Sample
5	9.20	Sample	15	19.64	Sample
6	10.20	Sample	16	20.58	Sample
7	11.20	Sample	17	21.53	Sample
8	12.20	Sample	18	22.47	Sample
9	13.20	Sample	19	23.41	Sample
10	14.91	Sample	20	24.36	Sample

Whole Rock Geochemistry from Fused Bead

This analysis reports all the major oxides in a geological matrix. Often referred to as "Whole Rock Analysis" Al₂O₃ BaO CaO Cr₂O₃ Fe₂O₃ K₂O MgO MnO Na₂O P₂O₅ SiO₂ SrO TiO₂ plus Loss On Ignition (LOI)
Price includes Standard Sample Preparation, Fused Bead Preparation and XRF Analysis

XRF Whole Rock Analysis	XRFWR	73.50	Sample
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