

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G999-4

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 3.02 ppm  
Standard Deviation 0.17 ppm  
Confidence Interval +/- 0.024 ppm

### Aqua Regia Digest

Gold Grade 2.93 ppm  
Standard Deviation 0.21 ppm  
Confidence Interval +/- 0.041 ppm



## CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	Control statistics were produced from results accumulated in the October-1999 & October-2006 round robins. A total of 199 fire assay results and 101 results from an aqua regia technique were used to certify this material.	Antimony	187.5	Fe
<u>Material Description</u> This material is described as an Oxide Ore ex Eastern Goldfields.	Arsenic	1855	SiO <sub>2</sub>	nr
	Barium	341.5	Al <sub>2</sub> O <sub>3</sub>	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale yellowish brown in colour.	Bromine	2.49	TiO <sub>2</sub>	nr
	Cadmium	nr	MnO	nr
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	3.98	CaO	nr
	Calcium (%)	2.02	P	nr
<u>Preparation and Packaging</u> All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.  Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.	Cerium	35.9	S	nr
	Chromium	689	MgO	nr
<u>Assay Testwork</u> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.	Cobalt	47.5	K <sub>2</sub> O	nr
	Europium	0.82	NazO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	3065	LOI1000	nr
	Hafnium	4.795		
<u>Material Safety</u> This product is not hazardous and non-toxic.	Iridium (ppb)	<20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	8.415	nr: Not Reported	
	Lanthanum	15.8		
	Lutetium	0.482		
	Mercury	nr		
	Molybdenum	<5		
	Neodymium	<16.4		
	Nickel	492		
	Potassium (%)	1.22		
	Rubidium	56.05		
	Samarium	3.43		
	Scandium	21.45		
	Selenium	<5		
	Silver	<5		
	Sodium (%)	0.812		
	Strontium	<38.4		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	<0.255		
	Thorium	4.42		
	Tin	<208		
	Tungsten	41.25		
	Uranium	<2		
	Ytterbium	<2.03		
	Zinc	460.5		
	Zirconium	<500		

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