

# GEOSTATS PTY LTD

Sample and Assay Monitoring Services

## Certified Multi-Element Reference Material Product Code

# GBMS304-6

## Certified Control Values

### Analyses

Element	Grade	Standard Deviation	No of Analyses	Confidence Interval
Au - FA (ppm)	4.58	0.19	175	0.03
Au - AR (ppm)	4.35	0.33	101	0.06
Silver (ppm)	6.1	0.8	169	0.1
Copper (ppm)	4241	215	198	30.1
Lead (ppm)	351	27	180	3.9
Zinc (ppm)	1265	90	188	12.9
Nickel (ppm)	2165	151	167	22.9
Arsenic (ppm)	2660	170	161	26.4
Cobalt (ppm)	118	13	160	2.1
Sulphur (%)	2.01	0.10	163	0.02

### CRM Details

#### Control Statistic Details

Control statistics were produced from results accumulated in the :

Multiple	Geostats Pty Ltd Laboratory Round Robin Program.
101	laboratories (at least) tested this material for multi-element content.
1	laboratories tested this material using Neutron Activation Analysis.

#### Source Material

Prior to homogenisation and testing, this material was sourced from Fresh Basaltic / Quartz Au ore ex South West Australia

#### Colour Designation

Light gray

#### Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

#### Preparation and Packaging

All standards 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, foil pulp packets or screw top sealed glass jars ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

#### Assay Testwork

All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across 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.

#### Neutron Activation

Analysis Results	(ppm)
Antimony	174.13
Arsenic	2673.75
Barium	586.13
Bromine	-1.00
Calcium%	6.91
Cerium	56.38
Caesium	3.10
Chromium	372.13
Cobalt	123.88
Europium	1.17
Gold ppb	4428.75
Hafnium	3.29
Iridium ppb	-20.00
Iron %	6.50
Lanthanum	29.14
Lutetium	0.28
Molybdenum	-10.00
Potassium %	1.44
Rubidium	84.24
Samarium	4.59
Scandium	16.01
Selenium	-3.50
Silver	-5.00
Sodium %	1.10
Tantalum	-1.00
Tellurium	-5.00
Thorium	8.04
Tungsten	22.04
Uranium	5.30
Ytterbium	1.85
Zinc	1287.50
Zirconium	-500.00

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