

## Certified Rare Earth Reference Material - GRE-05

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Be	ppm	100.89	7.27	40	+/- 2.49
Ce	ppm	121.05	6.02	49	+/- 2.07
Dy	ppm	195.6	12.6	50	+/- 4.3
Er	ppm	149.16	5.99	40	+/- 2.05
Eu	ppm	3.29	0.2	49	+/- 0.07
Ga	ppm	99.91	9.9	50	+/- 3.4
Gd	ppm	74	4.31	50	+/- 1.48
Hf	ppm	310.7	21.4	40	+/- 7.3
Ho	ppm	44.7	2.14	50	+/- 0.73
La	ppm	27.38	2.04	47	+/- 0.7
Li	ppm	241			
Lu	ppm	19.32	0.71	50	+/- 0.24
Nb	ppm	2832	129	30	+/- 44
Nd	ppm	68.39	4.91	49	+/- 1.68
Pr	ppm	17.79	1.05	49	+/- 0.36
Sm	ppm	46.14	2.81	50	+/- 0.96
Sn	ppm	308	16	47	+/- 5.5
Ta	ppm	181.9	17.7	50	+/- 6.1
Tb	ppm	24.55	0.87	50	+/- 0.3
Th	ppm	314.51	6.93	40	+/- 2.37
Tm	ppm	23.39	0.96	50	+/- 0.33
U	ppm	42.8	1.84	50	+/- 0.63
W	ppm	9.04	1.35	49	+/- 0.46
Y	ppm	1076.3	85.8	50	+/- 29.4
Yb	ppm	145.28	5.14	50	+/- 1.76
Zr	ppm	7133	594	40	+/- 204

#### Control Statistic Details

Control values for this material were determined during a certification program.

#### Certification Date

This material was certified with the above values on:

7/09/2011

#### Source Material

Prior to homogenisation and testing, this material was sourced from  
Silica sericite / tuffaceous rhyolitic volcanistic

#### Usage

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

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<p><b>GEOSTATS PTY LTD</b></p> <p>Mining Industry Consultants Reference Material Manufacture and Sales</p>
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**Preparation and Packaging**

This certified reference material was dried in an oven for a minimum of 8 hours at 120C. The dry material was pulverised in an LM2 pulveriser and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shipment.

**Certification Testwork**

This certified reference material was tested in a dedicated certification program. 10 samples were sent to 5 laboratories for analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.