

Certified Rare Earth Reference Material - GRE-03

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Ce	ppm	4354.1	83.5	38	+/- 28.6
Dy	ppm	92.33	6.36	50	+/- 2.18
Er	ppm	28.84	1.51	50	+/- 0.52
Eu	ppm	75.24	5.68	50	+/- 1.95
Gd	ppm	191	10.5	50	+/- 3.6
Ho	ppm	13.53	0.95	50	+/- 0.33
La	ppm	2224	104	50	+/- 36
Lu	ppm	1.81	0.19	50	+/- 0.07
Nb	ppm	3524	432	50	+/- 148
Nd	ppm	1835.9	96.9	50	+/- 33.2
Pr	ppm	496.6	25.8	50	+/- 8.9
Sm	ppm	279.4	14.2	50	+/- 4.9
Ta	ppm	161.5	26.5	50	+/- 9.1
Tb	ppm	21.65	1.23	50	+/- 0.42
Tm	ppm	3.08	0.2	50	+/- 0.07
Y	ppm	320.6	16.6	50	+/- 5.7
Yb	ppm	15.5	0.7	50	+/- 0.24
Zr	ppm	969	136	49	+/- 47
P	ppm	66520	979	40	+/- 336
Sc	ppm	49.85	1.57	39	+/- 0.54
Ti	%	0.979	0.025	40	+/- 0.009

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: 1/04/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
Carbonatite, Tanzania

Usage

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

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.

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GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

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.