

GBM-1, in-house multi-standard comparison, Union College

August 04, 2005

The material is a fine garnet powder concentrate, a grinding compound supplied by Barton Mines, NY. Sample was dried overnight at 110°C, and dissolved by the Picotrace high-pressure HF method. Analytical standards used for quantification were USGS standards BCR-2, BHVO-2, BIR-1, and QLO-1, and NIST standards 278 and 688. Concentrations are given in ppm by weight.

Sample ID	GBM-1
Li	4.8
Be	0.016
Sc	14.6
Ti	0.19
Co	77.5
Ni	26.0
Cu	17.2
Zn	58.0
Ga	7.3
Rb	1.01
Sr	9.8
Y	32.6
Zr	94
Nb	1.75
Mo	0.68
Sn	0.48
Cs	0.020
Ba	14.1
La	2.11
Ce	4.78
Pr	0.60
Nd	2.79
Sm	1.10
Eu	0.45
Gd	2.64
Tb	0.63
Dy	4.78
Ho	1.14
Er	3.50
Tm	0.55
Yb	3.75
Lu	0.62
Hf	1.89
Ta	0.11
Pb	1.9
Th	0.36
U	0.31