



Magruder Certificate of Analysis

Magruder Sample #210111 Gypsum 70

Analyte	Value	± Standard Uncertainty	# Labs
Acid Soluble Ca (17%)	17.29	0.24	67
Acid Soluble Mg (0.3%)	0.3541	0.0090	61
Sulfate S, HCl soluble (%)	13.94	0.15	16
Total S (14%)	13.78	0.18	48
Acid Soluble As (ppm)	2.164	0.162	17
Acid Soluble Cd (ppm)	0.3162	0.0337	17
Acid Soluble Cr (ppm)	50.36	5.04	22
Acid Soluble Co (ppm)	25.39	3.19	20
Acid Soluble Cu (%)	0.00086	0.00012	19
Acid Soluble Fe (%)	0.6423	0.0346	16
Acid Soluble Pb (ppm)	2.970	0.410	19
Acid Soluble Ni (ppm)	24.62	1.7	24
Acid Soluble Zn (%)	0.00235	0.00023	23

1. Data obtained from participant results in the Magruder Check Sample Program.
2. Guaranteed concentrations noted by the value preceding the unit in Analyte name.
3. Values are robust means. Standard uncertainty determined as $1.25 \times \text{robust standard deviation} / \sqrt{\text{\#Labs}}$. Results only shown for analytes tested by 16 or more labs. Values and uncertainties for analytes tested by less than 16 labs are available in Analyte Reports.
4. Technical information on Certificate of Analysis available at www.magruderchecksample.org/prod/Articles.html