

Magruder Certificate of Analysis

Magruder Sample #200911 Grade 3-6-4 Organic

Analyte	Value	± Standard Uncertainty	# Labs	
Total N (3%)	4.450	0.033	70	
Total P2O5 (%)	5.965	0.083	40	
Direct Available P2O5 (6%)	5.321	0.125	47	
Soluble K2O (4%)	2.951	0.041	72	
Acid Soluble Ca (8%)	8.268	0.068	53	
Acid Soluble Mg (%)	1.478	0.032	22	
Acid Soluble Cd (ppm)	0.4141	0.0136	16	
Acid Soluble Cr (ppm)	46.09	4.06	19	
Acid Soluble Co (ppm)	18.89	2.21	20	
Acid Soluble Cu (%)	0.00349	0.00011	28	
Acid Soluble Fe (%)	0.4070	0.0221	21	
Acid Soluble Pb (ppm)	2.074	0.293	16	
Acid Soluble Mn (%)	0.05088	0.00080	19	
Acid Soluble Mo (ppm)	4.213	0.401	17	
Acid Soluble Ni (ppm)	21.29	1.32	22	
Acid Soluble Zn (%)	0.01925	0.00042	31	

- 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 x robust standard deviation / sqrt(#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 Certificat of Analysis available at www.magruderchecksample.org/prod/Articles.html