

Magruder Certificate of Analysis

Magruder Sample #210911 Grade 8-5-1

Analyte	Value	± Standard Uncertainty	# Labs
Ammoniacal N (%)	0.9882	0.1640	19
Total N (8%)	8.070	0.015	80
Total P2O5 (%)	4.265	0.094	43
Direct Available P2O5 (5%)	4.094	0.153	45
Soluble K2O (1%)	1.270	0.027	78
Acid Soluble Mg (%)	0.2444	0.0093	17
Acid Soluble Cr (ppm)	57.80	6.65	22
Acid Soluble Co (ppm)	31.86	5.05	21
Acid Soluble Cu (%)	0.01708	0.00054	35
Acid Soluble Fe (%)	0.2542	0.0106	17
Acid Soluble Pb (ppm)	2.453	0.201	17
Acid Soluble Mo (ppm)	5.364	0.372	21
Acid Soluble Ni (ppm)	30.51	2.25	22
Acid Soluble Zn (%)	0.02084	0.00052	35

- 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