



Association of
American Plant
Food Control
Officials

Magruder Certificate of Analysis

Magruder Sample #220111 Soil Supplement

Analyte	Value	± Uncertainty	# Labs
Acid Soluble Ca (24%)	24.45	0.16	75
Acid Soluble Mg (5%)	6.491	0.125	75
Acid Soluble B (%)	0.01355	0.00162	37
Acid Soluble Cr (ppm)	1987	111	22
Acid Soluble Co (ppm)	53.20	7.71	24
Acid Soluble Cu (%)	0.00667	0.00051	49
Acid Soluble Fe (%)	3.907	0.072	65
Acid Soluble Mn (%)	0.7484	0.0139	62
Acid Soluble Mo (30ppm)	77.04	5.72	31
Acid Soluble Ni (ppm)	308.8	24.3	27
Acid Soluble Zn (%)	0.00499	0.00064	43

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. 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.