



Association of
American Plant
Food Control
Officials

Magruder Certificate of Analysis

Magruder Sample #230511 Silicon Fertilizer

Analyte	Value	± Uncertainty	# Labs
Acid Soluble Ca (26.5%)	25.49	0.26	55
Acid Soluble Mg (4.8%)	6.149	0.101	57
Total S (0.2%)	0.3654	0.0379	32
Acid Soluble Cr (ppm)	1371	97	17
Acid Soluble Co (ppm)	41.87	6.20	16
Acid Soluble Cu (0.003%)	0.00268	0.00035	34
Acid Soluble Fe (15.6%)	14.50	0.23	53
Acid Soluble Mn (2.3%)	1.615	0.029	53
Acid Soluble Ni (ppm)	110	10.6	18
Acid Soluble Zn (%)	0.00855	0.00048	26

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.