



Association of
American Plant
Food Control
Officials

Magruder Certificate of Analysis

Magruder Sample #221011 High Micros

Analyte	Value	± Uncertainty	# Labs
Acid Soluble B (2.6%)	2.476	0.027	55
Acid Soluble Cd (ppm)	26.61	0.85	26
Acid Soluble Cr (ppm)	30.02	3.06	18
Acid Soluble Co (ppm)	83.97	2.32	21
Acid Soluble Cu (10%)	10.24	0.082	69
Acid Soluble Fe (9%)	8.615	0.123	67
Acid Soluble Pb (ppm)	313.1	14.3	21
Acid Soluble Mn (12%)	8.180	0.085	64
Acid Soluble Ni (ppm)	151.8	4.9	21
Acid Soluble Zn (%)	4.144	0.079	39

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.