



Association of
American Plant
Food Control
Officials

Magruder Certificate of Analysis

Magruder Sample #240411 Macro-Micro-Humic

Analyte	Value	± Uncertainty	# Labs
Acid Soluble Ca (9%)	8.346	0.087	53
Total S (9%)	10.08	0.089	33
Acid Soluble B (1.5%)	1.966	0.028	45
Acid Soluble Cu (%)	0.09607	0.00126	21
Acid Soluble Fe (1%)	1.348	0.015	56
Acid Soluble Mn (1.5%)	1.895	0.024	56
Acid Soluble Zn (2%)	2.801	0.035	55

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.