



Association of
American Plant
Food Control
Officials

Magruder Certificate of Analysis

Magruder Sample #200211 Grade 8-0-0 Liquid

Analyte	Value	± Standard Uncertainty	# Labs
Ammoniacal N (%)	7.816	0.057	39
Total N (8%)	7.894	0.062	70
Total S (3%)	3.406	0.036	47
Acid Soluble Cr (ppm)	2.749	0.888	16
Acid Soluble Co (ppm)	21.55	1.16	19
Acid Soluble Fe (1%)	1.050	0.010	69
Acid Soluble Mn (2%)	2.141	0.027	63
Acid Soluble Ni (ppm)	11.03	0.77	22
Acid Soluble Zn (3%)	3.205	0.041	63

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 $1.25 \times \text{robust standard deviation} / \sqrt{\text{\#Labs}}$. 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.
4. Technical information on Certificate of Analysis available at www.magruderchecksample.org/prod/Articles.html