

Magruder Certificate of Analysis

Magruder Sample #191211 Grade 8-4-6 Liquid

Analyte	Value	± Standard Uncertainty	# Labs	
Ammoniacal N (%)	1.031	0.058	35	
Urea N (%)	7.246	0.127	19	
Total N (8%)	8.988	0.053	80	
Total P2O5 (%)	4.024	0.027	50	
Direct Available P2O5 (4%)	4.012	0.022	48	
Soluble K2O (6%)	6.157	0.033	87	
Acid Soluble Cr (ppm)	3.502	0.699	17	
Acid Soluble Cu (0.2%)	0.2062	0.0023	62	
Acid Soluble Mn (1%)	1.059	0.011	61	
Acid Soluble Ni (ppm)	1.427	0.289	17	
Acid Soluble Zn (1%)	1.027	0.011	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 x robust standard deviation / sqrt(#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 Certificat of Analysis available at www.magruderchecksample.org/prod/Articles.html