

Magruder Certificate of Analysis

Magruder Sample #180911 3-1-3 Organic

Analyte	Value	± Standard Uncertainty	# Labs	
Total Nitrogen (3%)	3.812	0.028	70	
Total Phosphorus as P2O5 (%)	2.787	0.043	44	
Direct Available Phosphorus as P2O5 (1%)	2.728	0.039	38	
Soluble Potassium as K2O (3%)	3.732	0.050	77	
Acid Soluble Calcium (1%)	1.334	0.018	29	
Acid Soluble Magnesium (0.5%)	0.6551	0.0117	37	
Total Sulfur (2.5%)	2.503	0.061	31	
Acid Soluble Boron (0.01%)	0.02440	0.0010	24	
Acid Soluble Copper (%)	0.00280	0.00030	18	
Acid Soluble Iron (0.05%)	0.09390	0.00250	36	
Acid Soluble Manganese (0.03%)	0.04440	0.00110	36	
Sodium (0.5%)	1.046	0.018	21	
Acid Soluble Zinc (0.01%)	0.02780	0.00060	38	

- 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