

Magruder Certificate of Analysis

Magruder Sample #190811 11-52-0 MAP

Analyte	Value	± Standard Uncertainty	# Labs	
Ammoniacal Nitrogen (%)	11.03	0.08	29	
Total Nitrogen (11%)	11.10	0.03	74	
Total Phosphorus as P2O5 (%)	51.85	0.25	47	
Direct Available Phosphorus as P2O5 (52%)	52.11	0.13	41	
Water Soluble Phosphorus as P2O5 (%)	46.50	0.57	16	
Acid Soluble Cadmium (ppm)	63.83	2.72	18	
Acid Soluble Chromium (ppm)	280.7	21.0	19	
Acid Soluble Nickel (ppm)	46.03	2.15	17	
Acid Soluble Zinc (%)	0.09153	0.00299	27	

- 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