

Magruder Certificate of Analysis

Magruder Sample #191011 Grade 18-46-0 DAP

Analyte	Value	± Standard Uncertainty	# Labs	
Ammoniacal Nitrogen (%)	17.87	0.07	40	
Total Nitrogen (18%)	17.95	0.03	77	
Total Phosphorus as P2O5 (%)	46.10	0.14	56	
Direct Available Phosphorus as P2O5 (46%)	46.05	0.12	51	
Water Soluble Phosphorus as P2O5 (%)	43.10	0.44	19	
Acid Soluble Magnesium (%)	0.6692	0.0291	19	
Acid Soluble Cadmium (ppm)	35.85	1.5	22	
Acid Soluble Chromium (ppm)	180.1	17.7	19	
Acid Soluble Iron (%)	0.4488	0.0071	18	
Acid Soluble Nickel (ppm)	8.224	0.870	18	
Acid Soluble Zinc (%)	0.04477	0.00121	30	

- 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