



Association of  
American Plant  
Food Control  
Officials

# Magruder Certificate of Analysis

**Magruder Sample #250811**  
**21-7-14**

Analyte	Value	± Uncertainty	# Labs
Ammoniacal N (%)	11.05	0.090	29
Nitrate N (%)	9.744	0.085	21
Total N (21%)	20.93	0.065	64
Total P2O5 (%)	6.858	0.061	40
Direct Available P2O5 (7%)	6.782	0.044	38
Soluble K2O (14%)	13.87	0.063	72
Total S (5%)	5.097	0.059	41
Acid Soluble Cd (ppm)	1.092	0.061	16
Acid Soluble Cr (ppm)	21.01	0.93	16
Acid Soluble Zn (%)	0.00308	0.00013	21

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. 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.