



Magruder Certificate of Analysis

Magruder Sample #251111 16-16-16, Regular Scheme

Analyte	Value	± Standard Uncertainty	# Labs
Ammoniacal N (%)	6.038	0.124	20
Total N (%)	15.70	0.05	74
Total P2O5 (%)	15.61	0.11	37
Direct Available P2O5 (%)	15.56	0.08	49
Soluble K2O (%)	15.73	0.08	79
Acid Soluble Zn (%)	0.00532	0.00043	16
Acid Soluble Cr (ppm)	84.41	3.61	18
Acid Soluble Ni (ppm)	25.20	1.72	18

1. Data obtained from participant results in the Magruder Fertilizer PT Program.
2. Guaranteed concentrations noted by the value preceding the unit in Analyte name.
3. Values are robust means. Standard uncertainty determined as $1.25 \times \text{robust standard deviation} / \sqrt{\text{\#Labs}}$. 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 the Analyte Summary Statistics Report.