

Magruder Certificate of Analysis

Magruder Sample #180512 TSP + Zn

Analyte	Value	± Standard Uncertainty	# Labs
Total Phosphorus as P2O5 (%)	45.62	0.16	53
Direct Available Phosphorus as P2O5 (45%)	45.40	0.1	57
Acid Soluble Calcium (13.5%)	14.29	0.15	56
Acid Soluble Magnesium (%)	0.7436	0.0248	19
Acid Soluble Arsenic (ppm)	16.67	1.43	16
Acid Soluble Cadmium (ppm)	106.7	3.8	23
Acid Soluble Chromium (ppm)	438.3	21.7	17
Acid Soluble Copper (%)	0.0050	0.00030	34
Acid Soluble Iron (%)	0.7472	0.0144	22
Acid Soluble Lead (ppm)	5.172	0.713	17
Acid Soluble Manganese (%)	0.01390	0.00110	18
Acid Soluble Molybdenum (ppm)	16.57	0.96	23
Acid Soluble Nickel (ppm)	138.8	5.6	22
Acid Soluble Zinc (0.62%)	0.4751	0.0054	62

- 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