

Spectrum Analytic Inc.

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**SPECTRUM ANALYTIC INC
PO BOX 639
WASHINGTON C H, OH 43160**

Prepared For

Sample Information			
Lab Number	ZZ00003	Sampled	10-16-2002
Sample	XYZ	Tested	10-16-2002
Manure Type	Poultry, Deep pit		

Certificate of Analysis Manure

Analysis	Result	Unit	Nutrients lbs/Ton	Available 1st Yr ³ lbs/Ton		
Moisture	20	%				
Nitrogen, Total	3.63	%	72.6	62.6 ⁴		
Nitrogen, Ammonium	2.29	%	45.8	45.8 ⁴		
Nitrogen, Organic	1.4	%	28.0	16.8 ⁴		
Phosphorus [P2O5], Total	2.23	%	44.6	44.6 ⁴		
Potassium [K2O]	3	%	60.0	60.0 ⁴		
Calcium	2.66	%	53.2	29.3 ⁵		
Magnesium	.57	%	11.4	6.3 ⁵		
Sulfur	.56	%	11.2	6.2 ⁵		
Boron	41	ppm	0.1	0.1 ⁵		
Copper	725	ppm	1.5	1.0 ⁵		
Iron	570	ppm	1.1	0.7 ⁵		
Manganese	528	ppm	1.1	0.7 ⁵		
Zinc	447	ppm	0.9	0.6 ⁵		
Aluminum	< 3.0	ppm				
Sodium	< 3.0	ppm				

- (1) Estimates of 1st year nutrient availability are unavailable if manure type is not specified.
- (2) Estimates of 1st year nutrient availability of "Total Nitrogen" are unavailable if no "Ammonium Nitrogen" test is run.
- (3) Estimates of 1st year nutrient availability do not take into consideration losses in handling and storage prior to incorporation. Nutrient Management Plan guidelines use 100% availability the 1st year for phosphorus and potassium. Actual 1st year availability varies from 40-90% depending on manure type, soil temperature, moisture and other factors. When using manure credits in fertility programs other than NMP, consult state publications, MWP-18, "Livestock Waste Facilities Handbook" or Spectrum Analytic for more specific 1st year availability percentages.
- (4) Source: MWP-18, "Livestock Waste Facilities Handbook"
- (5) Source: A3411, "Manure Nutrient Credit Worksheet", University of Wisconsin