



## Laboratory Analysis Report

Motzz Laboratory, Inc

Project: Compost  
 Sampler:  
 Date Received: 1/12/2014  
 Date Reported: 1/18/2014  
 PO Number: 95553

Lab Number: 909179-01  
 Sample ID: 01419345  
 Description: Compost

Crop:  
 Growth Stage:

### Compost: Complete Available Nutrients

Test	Method	Result	Units	Levels
pH	Saturated Paste	9.6	SU	
Electrical Conductivity, EC	Saturated Paste	24	mmhos/cm	
Calcium, Ca	NH4OAc (pH 8.5)	2,600	ppm	
Magnesium, Mg	NH4OAc (pH 8.5)	640	ppm	
Sodium, Na	NH4OAc (pH 8.5)	13,000	ppm	
Potassium, K	NH4OAc (pH 8.5)	27,000	ppm	
Nitrate-N, NO3-N	Cd-Reduction	35	ppm	
Phosphate-P, PO4-P	Olsen	760	ppm	
Sulfate-S, SO4-S	Hot Water	5,800	ppm	
Boron, B	Hot Water	41	ppm	
Zinc, Zn	DTPA	30	ppm	
Iron, Fe	DTPA	53	ppm	
Manganese, Mn	DTPA	32	ppm	
Copper, Cu	DTPA	5.1	ppm	
Nickel, Ni	DTPA	0.16	ppm	



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### Compost: Complete Total Nutrients

Test	Method	Result	Units	Levels
pH - Saturated Paste	Saturated Paste	9.6	SU	
Soluble Salts	Saturated Paste	15,000	ppm	
Total Calcium, Ca	Acid Digestion	3.1	%	
Total Magnesium, Mg	Acid Digestion	0.87	%	
Total Sodium, Na	Acid Digestion	1.5	%	
Total Potassium, K	Acid Digestion	3.2	%	
Total Potassium, K2O	Acid Digestion	3.9	%	
Total Sulfur, S	Acid Digestion	0.78	%	
Total Boron, B	Acid Digestion	86	ppm	
Total Zinc, Zn	Acid Digestion	150	ppm	
Total Iron, Fe	Acid Digestion	4,300	ppm	
Total Manganese, Mn	Acid Digestion	260	ppm	
Total Copper, Cu	Acid Digestion	44	ppm	
Total Nitrogen, N	Acid Digestion	1.7	%	
Total Phosphorus, P	Acid Digestion	0.67	%	
Total Phosphorus, P2O5	Acid Digestion	1.5	%	
Nitrate-N, NO3-N	Cd-Reduction	35	ppm	
Phosphate-P, PO4-P	Olsen	760	ppm	

### Moisture

Test	Method	Result	Units	Levels
Moisture	ASTM D2216	35	%	

### Humic Acid

Test	Method	Result	Units	Levels
Humic Acid, C187H186O89N9S1	V&B	7.4	%	



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### Compost: C:N Ratio

Test	Method	Result	Units	Levels
Total Nitrogen, N	Combustion	1.7	%	
Total Carbon, C	Combustion	17	%	
C:N		10 : 1		

### Compost Maturity Analysis

Test	Method	Result	Units	Levels
CO2 Rate	Solvita	4.8		
NH3 Rate	Solvita	4.2		
Maturity Index	Solvita	5.0		

\* Reference Method: Humic & Fulvic Acids by Verpleogh & Brandvold

Results expressed on dry matter basis.

Active Compost: Compost is moving past the active phase of decomposition and ready for curing; reduced need for intensive handling. Best use of compost: Farm row crops, field cultivation. Hothouse, Beds, Greenhouses. Orchards, Pastures, Hay crops, turf.

Reference: Solvita Compost Maturity Index