

Jul-03

## Lab Results- Nature Pure 4-3-2

Type of Composite		Monthly	Monthly	
Week Sampled		7/1/2003	8/1/2003	
Status			Sample Needed	

## PHYSICAL CHARACTERISTICS AND SPECIFICATIONS

Parameter	Abbrev.	Units	Results	Averages	Comment
Bulk Density	BD	Lbs/cuft	38.84	38.84	H for Composted PM
Moisture	Moist	%	15.82	15.82	H
Organic Matter	OM	% (LOI)	47.81	47.81	Good
Organic Matter	OM,dry	% (LOI)	56.78	56.78	Good
Ash		%	36.38	36.38	Avg
Carbon:Nitrogen Ratio		C:N	7.4:1	7.4:1	Excellent
Activity Index	AI	% H/Cwin	26.3	26.3	Very Good
Nitrogen, Total	(N)	%	4.16	4.16	3.51*
Water Insoluble Nitrogen	WIN	%	73%	73%	Excellent
Phosphorous	(P)	%	2.121	2.121	NA
Phosphate	(P2O5)	%	4.879	4.879	2.33*
Potassium	(K)	%	2.261	2.261	NA
Potash	(K2O)	%	2.713	2.713	1.59*
Calcium	(Ca)	%	10.27	10.27	1*
Magnesium	(Mg)	%	0.84	0.84	0.5*
Sulfur	(S)	%	0.59	0.59	1*
Sodium	(Na)	%	0.63	0.63	0.1*
Iron	(Fe)	%	0.1413	0.1413	0.1*
Manganese	(Mn)	%	0.0429	0.0429	0.05*
Zinc	(Zn)	%	0.0056	0.0056	0.05*
Boron	(B)	%	0.0041	0.0041	0.02*
Copper	(Cu)	%	0.0044	0.0044	0.05*
Aluminum	(Al)	%	0.0691	0.0691	NA
pH Units	pH	%H ion cn	8.1	8.1	H
Cation Exchange Capacity	CEC	meq/100g	41.6	41.6	Very Good
Total Pore Spce		%	66.16	66.16	
Large Pore		%	21.83	21.83	33%
Capillary Pore		%	44.33	44.33	66%
Sieve Analysis US Std Sieve No. (Mid Grade)	(+) 6	%	15	15	H
	8	%	30	30	
	10	%	17.5	17.5	
	12	%	12.5	12.5	
	14	%	10	10	
	(<) 14	%	15	15	H
E. Coli	CFU	Units/g	(<) 1	(<) 1	VG, meets standard
Salmonella	CFU	Units/g	(<) 12	(<) 12	VG, meets standard

## AMENDING GROWING MEDIUMS WITH NATURE PURE \*\*

Parameter	Units	Standard ** Soil Mix	With 4% Nature Pure	Nutrient Increase
Soil pH	pH	6.7 H	7.3 H	
Soluble Salts	mmhos/cm	0.25 M	0.90 M	
Nitrogen	ppm	38 M	102 M	168%
Phosphorous	ppm	18 M	128 VH	611%
Potassium	ppm	81 M	455 VH	462%
Calcium	ppm	860 M	1010 M	17%
Magnesium	ppm	227 M	243 M	7%
Iron	ppm	2.3 L	2.5 M	9%
Manganese	ppm	0.7 VL	1.6 L	129%
Zinc	ppm	1.2 VL	3.4 M	183%

Copper	ppm	0.4 VL	0.5 VL	25%
Boron	ppm	0.4 L	0.6 M	50%
Sulfur	ppm	20 M	23 M	15%
Nature Pure Bulk Density 1050 lbs/Cu.yd.	4% Mix	Use 42 lbs Nature Pure for 1 Cu.yd of mix		
	5% Mix	Use 50 lbs Nature Pure for 1 Cu.yd of mix		
Research in nurseries have shown composted organic matter in soil mixes results in suppression of soil diseases such as Phytophthora root rots.* * *				

Nature Pure is a Registered Trademark of Daylay Egg Farms of Ohio.

All Testing Performed by A&L Southern Agricultural Laboratories of Pompano Beach Florida

( \* ) To claim: APPFCO (Association of American Plant Control Officials) requires this minimum

( \* \* ) Typical Nursery Peat Mix for Southern Florida Nursery Market

( \* \* \* ) Hoitink Harry, Ohio State University, Mechanisms of Biological Control of Plant Diseases with Composts

Nutrients PLUS, LLC of Virginia is the Exclusive Marketing Agent for Nature Pure

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