

# Compost Detail

Report prepared for:  
Organix  
Russ Davis  
120 E Birch St Suite 9  
Walla Walla, OR WA USA

Report Sent: 19 Apr 2019  
Sample #: 01-129454  
Unique ID: Castings  
Invoice Number: 17389  
Sample Recieved: 04 Apr 2019



Earthfort, LLC  
635 SW Western Blvd  
Corvallis, OR 97333  
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**For interpretation of this report please contact your local Soil Steward or the lab.**

Assay Name	Result	Units	Desired Level	Commentary
<b>Organism Biomass Data</b>				
Dry Weight	0.32	N/A	0.20 to 0.80	Within normal moisture levels.
Active Fungi	8.46	µg/g	> 3.00	Fungal activity within normal levels. -
Total Fungi	1,906.76	µg/g	> 300.00	Good fungal biomass. - Fair fungal diversity. Hyphal diameter: 1.5 to 7.5µm.
Hyphal Diameter	2.75	µm	> 2.50	Good balance of fungi. -
Active Bacteria	120.53	µg/g	> 3.00	Bacterial activity within normal levels.
Total Bacteria	1,251.73	µg/g	> 300.00	Good bacterial biomass. -
Actinobacteria	80.58	µg/g		
<b>Organism Biomass Ratios</b>				
TF:TB	1.52		0.01 to 10.00	Balanced fungal and bacterial biomass.
AF:TF	0.00		< 0.10	Good fungal activity.
AB:TB	0.10		< 0.10	Good bacterial activity.
AF:AB	0.07		0.01 to 10.00	Fungal dominated, becoming more bacterial.
<b>Protozoa (Protists)</b>				
Flagellates	86,534.31	number/g	> 10,000.00	Should provide a good inoculum of protozoa.
Amoebae	1,795,728.84	number/g	> 10,000.00	
Ciliates	2,596.72	number/g	< 18823.00	
Nitrogen Cycling Potential	300+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period
<b>Nematodes</b>				
Nematodes	16.70	number/g	> 10.00	Good numbers, some diversity.
Bacterial	16.36	number/g		
Fungal	0.00	number/g		
Fungal/Root	0.00	number/g		
Predatory	0.34	number/g		
Root	0.00	number/g		
<b>Miscellaneous Testing</b>				
E.coli	Not Ordered	CFU/g	< 800.00	For most areas, the maximum E.coli CFU/g is 800 - 1000. Please check your local regulations for more information. -
pH	Not Ordered			
Electrical Conductivity	Not Ordered	µS/cm	< 1000.00	

Compost Notes:  
Bio/LTRO RC

## Nematode Detail

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**# per gram  
Classified by type and identified to genus.  
If section is blank, no nematodes identified.**

Nematode Genus	number/g	Units	Group	Common Name
Butlerius	7.84	number/g	Bacterial Feeders	
Cuticularia	4.43	number/g	Bacterial Feeders	
Diploscapter	1.36	number/g	Bacterial Feeders	
Panagrolaimus	0.34	number/g	Bacterial Feeders	
Rhabditidae	2.39	number/g	Bacterial Feeders	
Seinura	0.34	number/g	Predatory	

# Compost Biology Report



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Assay	Below Range	Desired Range	Above Range	Range	Result
Dry Weight				0.2 - 0.8	0.32
Active Fungi				> 3 µg/g	8.46 µg/g
Total Fungi				> 300 µg/g	1,906.76 µg/g
Active Bacteria				> 3 µg/g	120.53 µg/g
Total Bacteria				> 300 µg/g	1,251.73 µg/g
TF:TB				0.01 - 10	1.52
AF:TF				< 0.1	0.00
AB:TB				> 0	0.10
AF:AB				0.01 - 10	0.07
Flagellates				> 10000 /g	86,534.31 /g
Amoebae				> 10000 /g	1,795,728.84 /g
Ciliates				< 18823 /g	2,596.72 /g
Nematodes				> 10 /g	16.70 /g

## Plant Available Nutrients

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TEST	RESULTS (ppm)	POUNDS/TON	
pH	9.4	6.5-7.5	
Calcium (Ca)	504	444-550	
Humus Content	51.7%	12+%	
Soluble Salts	1184.8	177-426	
Nitrates (NO3)	220	10-20	
Ammonium (NH4)	0.60	5-15	
Phosphate (HPO4)	588	2-5	
Potassium (K)	1380	5-25	
Magnesium (Mg)	381	99-122	
Iron (Fe)	1.92	0.5-5.0	
Manganese (Mn)	2.79	0.5-5.0	
Boron (B)	1	0.06-0.5	
Copper (Cu)	0.36	0.06-0.5	
Zinc (Zn)	0.55	0.3-3.0	
Sulfates (SO4)	179	4-15	
Chlorides (Cl)	210	0-30	

Notes

# Pathogen Analysis

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TEST	RESULTS	Method
Salmonella	not detected	SDIX
E Coli	not detected	IDEXX
Fecal Coliform E. coli O157:H7	not detected	PCR
Total Coliform		

Notes The US Composting guide says less than 4 MPN/g of Salmonella and less than 1000 MPN/g of e. coli and Total Coliforms.