

Compost Detail



Report prepared for:
 HealTerra
 Elena Lininger
 646 W Madrone Street
 Roseburg, OR 97470

For interpretation of this report, please
 contact your local Soil Steward or the lab.

Report Sent: 07/18/2021
 Sample #: 01-134555
 Unique ID: Worm Castings
 Plant: N/A
 Season: N/A
 Invoice Number: 20343
 Sample Received: 06/29/2021

Earthfort, LLC
 635 SW Western Blvd
 Corvallis, OR 97333
 +1 (541) 257-2612
 info@earthfort.com
 http://earthfort.com

Assay Name	Result	Units	Range	Commentary
Organism Biomass Data				
Dry Weights	0.49	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	7.67	µ/g	> 3	Fungal activity within normal levels.
Total Fungi	1616.65	µ/g	> 300	Good fungal biomass. - Good fungal diversity. Hyphal diameter: 2.5 to 6.5 µm.
Hyphal Diameter	3.00	µm	> 2.85	Disease suppressive fungi likely present.
Active Bacteria	23.68	µ/g	> 3	Bacterial activity within normal levels.
Total Bacteria	977.74	µ/g	> 300	Good bacterial biomass.
Actinobacteria	5.85	µ/g	< 40	
Organism Biomass Ratios				
TF:TB	1.65		0.1 to 10	Balanced fungal and bacterial biomass.
AF:TF	0.00		< 0.1	Good fungal activity.
AB:TB	0.02		< 0.1	Good bacterial activity.
AF:AB	0.32		0.1 to 10	Fungal dominated, becoming more bacterial.
Protozoa (Protists)				
Flagellates	283431.88	#/g	> 10000	Should provide a good inoculum of protozoa.
Amoebae	283431.88	#/g	> 100000	
Ciliates	1175.60	#/g	< 5669	
Nitrogen Cycling Potential	300+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	69.31	#/g	> 10	Excellent numbers, but limited diversity.
Bacterial	53.27	#/g		
Fungal	0.00	#/g		
Fungal/Root	16.04	#/g		
Predatory	0.00	#/g		
Root	0.00	#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	7.10			
Electrical Conductivity	520.00	µs/cm	< 1000	
Notes				

Nematode Detail



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Nematode Genus	Result	Units	Group	Common Name
Bacterial Feeders				
Butlerius	2.57	number/g	Bacterial Feeders	
Cuticularia	37.22	number/g	Bacterial Feeders	
Rhabditidae	13.48	number/g	Bacterial Feeders	Family
Fungal Feeders				
Fungal/Root Feeders				
Aphelenchoides	0.64	number/g	Fungal/Root Feeders	Foliar nematode
Ditylenchus	3.85	number/g	Fungal/Root Feeders	Stem & Bulb nematode
Filenchus	11.55	number/g	Fungal/Root Feeders	
Predatory				
Root Feeders				

Compost Graphs



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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.49
Active Fungi	> 3	7.67
Total Fungi	> 300	1616.65
Active Bacteria	> 3	23.68
Total Bacteria	> 300	977.74
Organism Biomass Ratios		
TF:TB	0.1-10	1.65
AF:TF	< 0	0.00
AB:TB	< 0	0.02
AF:AB	0.1-10	0.32
Protozoa (Protists)		
Flagellates	> 10000	283431.88
Amoebae	> 100000	283431.88
Ciliates	< 5669	1175.60
Nematodes		
Nematodes	> 10	69.31

Bio Available Nutrients



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Test	Results (ppm or %)	Optimum Range	Rating
pH	7.7	6.0-7.5	High
Calcium (Ca)	423	219-331	High
% Organic Matter	47.9%	5+%	Optimum
Soluble Salts	332.8	177-426	Optimum
Nitrates (NO3)	62	10-20	High
Ammonium (NH4)	1.02	5-15	Low
Phosphate (HPO4)	61.8	2-5	High
Potassium (K)	930	5-25	High
Magnesium (Mg)	499	49-74	High
Iron (Fe)	1.60	0.5-5.0	Optimum
Manganese (Mn)	0.23	0.5-5.0	Low
Boron (B)	0.97	0.06-0.5	High
Copper (Cu)	0.02	0.06-0.5	Low
Zinc (Zn)	0.19	0.3-3.0	Low
Sulfates (SO4)	10	4-15	Optimum
Chlorides (Cl)	185	0-30	High