

Compost Detail



Report prepared for:
New Mexico State University
Amy Larsen
7 Country Road 14
Alcalde, NM 87511

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

Report Sent: 05/31/2021
Sample #: 01-134387
Unique ID: B9 & B10
Plant: N/A
Season: N/A
Invoice Number: 20212
Sample Received: 05/19/2021

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	0.32	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	27.39	µ/g	> 3	Fungal activity within normal levels.
Total Fungi	6738.85	µ/g	> 300	Good fungal biomass. - Very good fungal diversity. Hyphal diversity: 3.0 to 8.0 µm.
Hyphal Diameter	3.50	µm	> 2.85	Disease suppressive fungi likely present.
Active Bacteria	4.80	µ/g	> 3	Bacterial activity within normal levels.
Total Bacteria	662.68	µ/g	> 300	Good bacterial biomass.
Actinobacteria	26.86	µ/g	< 40	
Organism Biomass Ratios				
TF:TB	40.68		0.1 to 10	Fungal dominated.
AF:TF	0.00		< 0.1	Good fungal activity.
AB:TB	0.03		< 0.1	Good bacterial activity.
AF:AB	5.71		0.1 to 10	Fungal dominated, becoming more fungal.
Protozoa (Protists)				
Flagellates	143487.73	#/g	> 10000	High ciliate numbers indicate possible anaerobic conditions.
Amoebae	111213.89	#/g	> 100000	
Ciliates	25912.53	#/g	< 2547	
Nitrogen Cycling Potential	250+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	Not Ordered	#/g	> 10	
Bacterial		#/g		
Fungal		#/g		
Fungal/Root		#/g		
Predatory		#/g		
Root		#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	7.30			
Electrical Conductivity	Not Ordered	µs/cm	< 1000	
Notes				

Compost Graphs



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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.32
Active Fungi	> 3	27.39
Total Fungi	> 300	6738.85
Active Bacteria	> 3	4.80
Total Bacteria	> 300	662.68
Organism Biomass Ratios		
TF:TB	0.1 - 10	40.68
AF:TF	< 0	0.00
AB:TB	< 0	0.03
AF:AB	0.1-10	5.71
Protozoa (Protists)		
Flagellates	> 10000	143487.73
Amoebae	> 100000	111213.89
Ciliates	< 2547	25912.53
Nematodes		

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Report Sent: 05/31/2021
Sample #: 01-134386
Unique ID: B7 & B8
Plant: N/A
Season: N/A
Invoice Number: 20212
Sample Received: 05/19/2021

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Assay Name	Result	Units	Range	Commentary
Organism Biomass Data				
Dry Weights	0.32	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	21.80	µ/g	> 3	Fungal activity within normal levels.
Total Fungi	5569.87	µ/g	> 300	Good fungal biomass. - Good fungal diversity. Hyphal diversity: 2.5 to 6.5 µm.
Hyphal Diameter	3.00	µm	> 2.85	Disease suppressive fungi likely present.
Active Bacteria	3.20	µ/g	> 3	Bacterial activity within normal levels.
Total Bacteria	834.49	µ/g	> 300	Good bacterial biomass.
Actinobacteria	26.86	µ/g	< 40	
Organism Biomass Ratios				
TF:TB	26.70		0.1 to 10	Fungal dominated.
AF:TF	0.00		< 0.1	Good fungal activity.
AB:TB	0.02		< 0.1	Good bacterial activity.
AF:AB	6.81		0.1 to 10	Fungal dominated, becoming more fungal.
Protozoa (Protists)				
Flagellates	143212.99	#/g	> 10000	High ciliate numbers indicate possible anaerobic conditions.
Amoebae	14321.30	#/g	> 100000	
Ciliates	1787.83	#/g	< 1575	
Nitrogen Cycling Potential	200+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	Not Ordered	#/g	> 10	
Bacterial		#/g		
Fungal		#/g		
Fungal/Root		#/g		
Predatory		#/g		
Root		#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	7.30			
Electrical Conductivity	Not Ordered	µs/cm	< 1000	
Notes				

Compost Graphs



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Report Sent: 05/31/2021
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 Unique ID: B7 & B8
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 Season: N/A
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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.32
Active Fungi	> 3	21.80
Total Fungi	> 300	5569.87
Active Bacteria	> 3	3.20
Total Bacteria	> 300	834.49
Organism Biomass Ratios		
TF:TB	0.1 - 10	26.70
AF:TF	< 0	0.00
AB:TB	< 0	0.02
AF:AB	0.1-10	6.81
Protozoa (Protists)		
Flagellates	> 10000	143212.99
Amoebae	> 100000	14321.30
Ciliates	< 1575	1787.83
Nematodes		

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Report Sent: 05/31/2021
Sample #: 01-134385
Unique ID: B5 & B6
Plant: N/A
Season: N/A
Invoice Number: 20212
Sample Received: 05/19/2021

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Assay Name	Result	Units	Range	Commentary
Organism Biomass Data				
Dry Weights	0.34	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	1.58	µ/g	> 3	Fungal activity low, foods may be required.
Total Fungi	2718.19	µ/g	> 300	Good fungal biomass. - Good fungal diversity. Hyphal diversity: 2.5 to 6.5 µm.
Hyphal Diameter	3.00	µm	> 2.85	Disease suppressive fungi likely present.
Active Bacteria	1.00	µ/g	> 3	Bacterial activity low, foods may be required.
Total Bacteria	808.50	µ/g	> 300	Good bacterial biomass.
Actinobacteria	58.99	µ/g	< 40	
Organism Biomass Ratios				
TF:TB	3.36		0.1 to 10	Balanced fungal and bacterial biomass.
AF:TF	0.00		< 0.1	Good fungal activity.
AB:TB	0.00		< 0.1	Good bacterial activity.
AF:AB	1.57		0.1 to 10	Fungal dominated, becoming more fungal.
Protozoa (Protists)				
Flagellates	104133.58	#/g	> 10000	High ciliate numbers indicate possible anaerobic conditions.
Amoebae	8088.58	#/g	> 100000	
Ciliates	13435.27	#/g	< 1122	
Nitrogen Cycling Potential	200+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	Not Ordered	#/g	> 10	
Bacterial		#/g		
Fungal		#/g		
Fungal/Root		#/g		
Predatory		#/g		
Root		#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	6.70			
Electrical Conductivity	Not Ordered	µs/cm	< 1000	
Notes				

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Sample #: 01-134385
Unique ID: B5 & B6
Plant: N/A
Season: N/A
Invoice Number: 20212
Sample Received: 05/19/2021

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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.34
Active Fungi	> 3	1.58
Total Fungi	> 300	2718.19
Active Bacteria	> 3	1.00
Total Bacteria	> 300	808.50
Organism Biomass Ratios		
TF:TB	0.1-10	3.36
AF:TF	< 0	0.00
AB:TB	< 0	0.00
AF:AB	0.1-10	1.57
Protozoa (Protists)		
Flagellates	> 10000	104133.58
Amoebae	> 100000	8088.58
Ciliates	< 1122	13435.27
Nematodes		

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Report Sent: 05/31/2021
Sample #: 01-134384
Unique ID: B1 & B2
Plant: N/A
Season: N/A
Invoice Number: 20212
Sample Received: 05/19/2021

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Assay Name	Result	Units	Range	Commentary
Organism Biomass Data				
Dry Weights	0.38	N/A	0.2 to 0.85	Within normal moisture levels.
Active Fungi	8.47	µ/g	> 3	Fungal activity within normal levels.
Total Fungi	1563.47	µ/g	> 300	Good fungal biomass. - Good fungal diversity. Hyphal diversity: 2.5 to 6.0 µm.
Hyphal Diameter	3.00	µm	> 2.85	Disease suppressive fungi likely present.
Active Bacteria	4.04	µ/g	> 3	Bacterial activity within normal levels.
Total Bacteria	558.05	µ/g	> 300	Good bacterial biomass.
Actinobacteria	7.54	µ/g	< 40	
Organism Biomass Ratios				
TF:TB	11.21		0.1 to 10	Fungal dominated.
AF:TF	0.01		< 0.1	Good fungal activity.
AB:TB	0.03		< 0.1	Good bacterial activity.
AF:AB	2.10		0.1 to 10	Fungal dominated, becoming more fungal.
Protozoa (Protists)				
Flagellates	12196.43	#/g	> 10000	High ciliate numbers indicate possible anaerobic conditions.
Amoebae	121964.32	#/g	> 100000	
Ciliates	3670.05	#/g	< 1342	
Nitrogen Cycling Potential	200+	lbs/acre		Nitrogen levels dependent on plant needs. Estimated availability over a 3 month period.
Nematodes				
Nematodes	Not Ordered	#/g	> 10	
Bacterial		#/g		
Fungal		#/g		
Fungal/Root		#/g		
Predatory		#/g		
Root		#/g		
Miscellaneous Testing				
E.coli	Not Ordered	CFU/g	< 800	
pH	7.40			
Electrical Conductivity	Not Ordered	µs/cm	< 1000	
Notes				

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Report Sent: 05/31/2021

Sample # 01-134384

Unique ID: B1 & B2

Plant: N/A

Season: N/A

Invoice Number: 20212

Sample Received: 05/19/2021

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Assay	Range	Result
Organism Biomass Data		
Dry Weight	0.2-0.85	0.38
Active Fungi	> 3	8.47
Total Fungi	> 300	1563.47
Active Bacteria	> 3	4.04
Total Bacteria	> 300	558.05
Organism Biomass Ratios		
TF:TB	0.1 - 10	11.21
AF:TF	< 0	0.01
AB:TB	< 0	0.03
AF:AB	0.1-10	2.10
Protozoa (Protists)		
Flagellates	> 10000	12196.43
Amoebae	> 100000	121964.32
Ciliates	< 1342	3670.05
Nematodes		