



Compost Power Lab
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BIOLOGY REPORT

Client: Two Brothers Farm
 Sample name: Field 1
 Sample type: soil
 Date observed: 01/14/22
 Plants desired: tomatoes

Type of organisms	Target range for mid-successional vegetables	Sample results	Notes
BENEFICIAL ORGANISMS			
Fungi (ug/g)	101 - 1012	72	Low: The fungi biomass is below the minimum recommended level for mid-successional vegetables.
Standard Deviation		28	Distribution of the target organisms was patchy, greater variability than desired.
Bacteria (ug/g)	135 - 1350	243	Good: The number of bacteria is within the target range.
Standard Deviation		22	Distribution of the target organisms in the sample was uniform; variation was small.

F:B ratio	0.6 - 0.9	0.3	The F:B ratio is low. Increase fungal biomass or reduce bacterial biomass, and check predators to assess balance.
Actinobacteria (ug/g)	1 - 10	3.2	The actinobacterial biomass is within the expected range.
Standard Deviation		0.3	Distribution of the target organisms in the sample was uniform; variation was small.
Total Protozoa (#/g)	>50,000	72,455	Good: The number of beneficial protozoa is above the minimum requirement.
Standard Deviation		18,680	Distribution of organisms was somewhat uneven, resulting in an acceptable degree of variation.
Flagellate (#/g)	(see Total Protozoa)	26,674	
Standard Deviation		12,455	
Amoebae (#/g)	(see Total Protozoa)	45,781	
Standard Deviation		9,730	
Nematodes:			
Bacterial-feeding (#/g)	200	205	Good: Minimum numbers met. Bacterial-feeding nematodes help to release nutrients from bacteria to the plants.
Fungal-feeding (#/g)	100	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants.

Predatory (#/g)	0	0	None detected: Predatory nematodes help reduce root-feeding nematode numbers.
DETRIMENTAL ORGANISMS			
Oomycetes - disease-causing fungi (ug/g)	0	0	None detected: No disease-causing fungi were observed in the sample. Great!
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.
Ciliates - anaerobic protozoa (#/g)	0	33,423	Ciliates were detected, but the sample is not necessarily anaerobic, especially if flagellates and amoebae were present in high numbers.
Standard Deviation		45,767	Few target organism were present and variability was very high. Precision is very low.
Root-feeding nematodes (#/g)	0	0	None detected: No root-feeding nematodes were observed. Great!
ADDITIONAL COMMENTS: Sample is sandy, gray-colored soil with low aggregation.			