



# Compost Foodweb Analysis

## Report prepared for:

Ag-Plus Pty Ltd  
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Report Sent: 12/03/2013  
 Sample#: 02-014645 | Submission:02-006620  
 Unique ID: Compost 18.73.  
 Plant:  
 Invoice Number: 02-6603  
 Sample Received: 18/11/2013

For interpretation of this report please contact:  
 Local Advisor: or regional lab  
 Soil Foodweb Institute  
[contact@soilfoodweb.com.au](mailto:contact@soilfoodweb.com.au)  
 0266225150  
*Consulting fees may apply*

Organism Biomass Data	Dry Weight	Active Bacterial (µg/g)	Total Bacterial (µg/g)	Active Fungal (µg/g)	Total Fungal (µg/g)	Hyphal Diameter (µm)	Nematode detail (# per gram or # per mL) Classified by type and identified to genus. (If section is blank, no nematodes identified.)		
<b>Results</b>	0.70	28.9	209	6.93	15.8	3	Bacterial Feeders Caenorhabditis Panagrolaimus		0.02 0.12
<b>Comments</b>	In Good Range	Above range	In range	Below range	Below range				
<b>Expected Range</b>	Low: 0.45 High: 0.85	15 25	100 3000	15 25	100 300				
	Protozoa (Numbers/g)			Total Nematodes #/g	Mycorrhizal Colonization (%)				
	Flagellates	Amoebae	Ciliates		ENDO	ECTO			
<b>Results</b>	8	66	0	0.20	Not Ordered	Not Ordered			
<b>Comments</b>	Low	Low	Low	Low					
<b>Expected Range</b>	Low: 10000 High:	10000	50 100	20 30					
Organism Biomass Ratios	Total Fungal to Tot.Bacterial	Active to Total Fungal	Active to Total Bacterial	Active Fungal to Act.Bacterial	Plant Available N Supply (kg/ha)				
<b>Results</b>	0.08	0.44	0.14	0.24	<6				
<b>Comments</b>	Low	High	High	Low					
<b>Expected Range</b>	Low: 0.75 High:	0.01 0.1	0.01 0.1	0.75 1.5					

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Dry Weight: Within normal moisture levels for compost.

Active Bacteria: Bacterial activity above expected levels; bacterial biomass will increase as long as nutrients are available.

Total Bacteria: Aerobic bacterial biomass in normal range for mature compost.

Active Fungi: Fungi may have run out of food or oxygen; add fungal foods, consider turning when oxygen drops too low.

Total Fungi: Need to improve total fungal biomass; increase fungal foods in the initial starting materials and find inoculum from good humus to improve fungal diversity.

Hyphal Diameter: Good balance of disease suppressive and normal soil fungi.

Protozoa: Protozoa too low to provide needed nutrient cycling for plants. Inoculum needed to improve protozoa to desired ranges rapidly. Inoculum can be obtained from straw infusion or from compost teas.

Total Nematodes: Low numbers, low diversity, need to add beneficial nematodes.

Mycorrhizal Col.: Endo: | Ecto:

TF/TB: More bacterial biomass than fungal biomass. Excellent for improving bacterial diversity and biomass.

AF/TF: Not mature. Wait to apply this material until activity drops below 10%. Material is currently suitable for making compost tea.

AB/TB: Not mature. Wait to apply this material until activity drops below 10%. Material is currently suitable for making compost tea.

AF/AB: Bacterial dominated compost is becoming more bacterial; addition of foods for preferred dominance might speed balance.

Nitrogen Supply: Low nutrient cycling and availability. Need more protozoa and beneficial nematodes to cycle nutrients.

Interpretation Comments:

Compost age Not supplied., compost from Not supplied., reached Not supplied. for ? days, turned ? times, water added: 0 Not supplied. times, for Not Indicated plant, Smell: Green.. Notes:  
Actinobacteria Biomass = 0.88 ug/g

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	Below Range	Desired Range	Above Range	Result
Dry Weight		0.45 0.85		0.70
Active Bacteria		15 25		28.9
Total Bacteria		100 3000		209
Active Fungi		15 25		6.93
Total Fungi		100 300		15.8
Flagellates		10000		8
Amoebae		10000		66
Ciliates		50 100		0
Total Nematodes		20 30		0.20
VAM (ENDO)		NA NA		Not Ordered
VAM(ECTO)		NA NA		Not Ordered
TF/TB		0.75 1.5		0.08
AF/TF		0.01 0.1		0.44
AB/TB		0.01 0.1		0.14
AF/AB		0.75 1.5		0.24