



# Biological Analysis Soil Amendment

**Report prepared for:**

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Report Sent: 9/27/2012  
Sample#: 01-114993 | Submission:01-022561  
Unique ID: Compost Divine  
Plant:  
Invoice Number: 9143  
Sample Received: 9/18/2012

For interpretation of this report please contact:  
Earthfort Labs  
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*Consulting fees may apply*

| Organism Biomass Data   | Dry Weight                  | Active Bacteria (µg/g) | Total Bacteria (µg/g)    | Active Fungi (µg/g)          | Total Fungi (µg/g)  | Hyphal Diameter (µm)         | <b>Nematode detail (# per gram or # per mL)</b><br>Classified by type and identified to genus.<br>(If section is blank, no nematodes identified.) |                 |      |  |
|-------------------------|-----------------------------|------------------------|--------------------------|------------------------------|---------------------|------------------------------|---|-----------------|------|--|
| <b>Results</b>          | 0.710                       | 18.7                   | 1452                     | 0                            | 344                 | 3                            | Bacterial Feeders   | 0.08            |      |  |
| <b>Comments</b>         | In Good Range               | In range               | In range                 | Below range                  | In range            |                              | Cephalobus  |                 | 0.03 |  |
| <b>Expected Range</b>   | Low                         | 3                      | 300                      | 3                            | 300                 |                              | Prismatolaimus  |                 | 0.04 |  |
|                         | High                        | 0.8                    | 30                       | 30                           | 3000                |                              | Rhabditidae   |                 | 0.01 |  |
|                         |                             |                        |                          |                              |                     |                              | Fungal/Root Feeders   | 0.04            |      |  |
|                         |                             |                        |                          |                              |                     |                              | Aphelenchoides  | Foliar nematode | 0.04 |  |
|                         |                             |                        |                          |                              |                     |                              | Predatory   | 0.01            |      |  |
|                         |                             |                        |                          |                              |                     |                              | Seinura   |                 | 0.01 |  |
|                         |                             | Protozoa (Numbers/g)   |                          |                              | Total Nematodes #/g | Mycorrhizal Colonization (%) |   |                 |      |  |
|                         |                             | Flagellates            | Amoebae                  | Ciliates                     |                     | ENDO                         | ECTO  |                 |      |  |
| <b>Results</b>          |                             | <b>647</b>             | <b>6487</b>              | 81                           | <b>0.14</b>         | Not Ordered                  | Not Ordered   |                 |      |  |
| <b>Comments</b>         |                             | Low                    | Low                      | Good                         | Low                 |                              |   |                 |      |  |
| <b>Expected Range</b>   | Low                         | 10000                  | 10000                    | 0                            | 10                  |                              |   |                 |      |  |
|                         | High                        | 100000                 | 100000                   | 2000                         | 100                 |                              |   |                 |      |  |
| Organism Biomass Ratios | Total Fungi to Tot.Bacteria | Active to Total Fungi  | Active to Total Bacteria | Active Fungi to Act.Bacteria |                     |                              |   |                 |      |  |
| <b>Results</b>          | 0.24                        | <b>0</b>               | 0.01                     | <b>0</b>                     |                     |                              |   |                 |      |  |
| <b>Comments</b>         | Good                        | Low                    | Good                     | Low                          |                     |                              |   |                 |      |  |
| <b>Expected Range</b>   | Low                         | 0.01                   | 0.01                     | 0.01                         | 0.01                |                              |   |                 |      |  |
|                         | High                        | 10                     | 0.1                      | 0.1                          | 10                  |                              |   |                 |      |  |

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Dry Weight: Within normal moisture levels for solid soil amendment

Active Bacteria: Aerobic bacterial activity in normal range for mature amendment

Total Bacteria: Aerobic bacterial biomass in normal range for mature amendment

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

Total Fungi: Aerobic fungal biomass in normal range for mature amendment

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

Protozoa: Aerobic protozoa too low to provide needed nutrient cycling for plants, good ciliate numbers indicate anaerobic situation developing.

Total Nematodes: Low numbers, low diversity. Need to add beneficial nematodes. Nutrient cycling from fungi limited.

Mycorrhizal Col.:

TF/TB: More bacterial biomass than fungal biomass. Add fungal foods to improve fungi, if needed.

AF/TF: Add beneficial fungal foods to improve active fungal biomass

AB/TB: Activity in desired range for mature amendment. Bacteria will not compete with plants for nutrients.

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

Interpretation Comments:

Actinobacteria Biomass = 8.07 ug/g  
Fairly good fungal diversity, hyphal diameter: 2 to 6um