



# Biological Analysis Soil

**Report prepared for:**

Sonoma Mountain Inst.  
Nate Chisholm  
PO Box 228  
Glen Ellen, CA 95442 USA

Report Sent: 5/24/2013  
Sample#: 01-116284 | Submission:01-023049  
Unique ID: Middle  
Plant: Not Indicated

Invoice Number: 9895  
Sample Received: 5/16/2013

natec191@gmail.com

For interpretation of this report please contact:  
Earthfort Labs  
[info@earthfort.com](mailto:info@earthfort.com)  
(541) 257-2612  
  
*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> Classified by type and identified to genus. (If section is blank, no nematodes identified.)		
<b>Results</b>	<b>0.910</b>	39.8	897	26.6	513	2.85	Bacterial Feeders	0.75	
<b>Comments</b>	Above Range	Below range	Above range	Below range	In range		Cephalobus		0.11
<b>Expected Range</b>	Low	75	300	75	300		Monhystrella		0.04
	High	0.85	150	600	600		Panagrolaimus		0.25
							Plectus		0.07
							Prismatolaimus		0.07
							Rhabditidae		0.21
							Fungal Feeders	0.11	
							Aporcelaimellus		0.07
							Tylencholaimus		0.04
							Fungal/Root Feeders	0.28	
							Ditylenchus	Stem & Bulb nematode	0.14
							Filenchus		0.14
							Predatory	0.04	
							Clarkus		0.04
							Root Feeders	0.04	
							Pratylenchus	Lesion nematode	0.04
Organism Biomass Ratios	Total Fungi to Tot.Bacteria	Active to Total Fungi	Active to Total Bacteria	Active Fungi to Act.Bacteria	Nitrogen Cycling Potential (lbs/ac)				
<b>Results</b>	<b>0.57</b>	<b>0.05</b>	<b>0.04</b>	<b>0.67</b>	250+				
<b>Comments</b>	Low	Low	Low	Low					
<b>Expected Range</b>	Low	1	0.25	0.25	1				
	High	2	0.95	0.95	2				

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Dry Weight: Add organic matter to build soil structure, increase water holding capacity.

Active Bacteria: Bacterial activity low, foods may be required.

Total Bacteria: Excellent bacterial biomass.

Active Fungi: Fungal activity low, foods may be required.

Total Fungi: Good fungal biomass.

Hyphal Diameter: Good balance of fungi.

Protozoa: Nutrients are being cycled and made available to plants in good rates.

Total Nematodes: Low numbers, good diversity.

Mycorrhizal Col.:

TF/TB: Too bacterial for some plants

AF/TF: Low fungal activity, foods may be required.

AB/TB: Low bacterial activity, foods may be required.

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Fairly good fungal diversity, hyphal diameter: 1.5 to 5.0 um. Actinobacteria Biomass = 0 ug/g