



# Biological Analysis Soil

**Report prepared for:**

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

Report Sent: 3/27/2014  
Sample#: 01-118372 | Submission:01-023722  
Unique ID: Middle Meadow  
Plant: Pasture

Invoice Number: 10931  
Sample Received: 3/21/2014

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>	0.790	32.0	1422	3.43	772	2.75	Bacterial Feeders	0.05	
<b>Comments</b>	In Good Range	In range	Above range	Below range	Above range		Achromadora		0.01
<b>Expected Range</b>							Plectus		0.04
Low	0.45	30	300	30	300		Fungal/Root Feeders	0.08	
High	0.85	60	600	60	600		Aphelenchoides		0.03
							Ditylenchus		0.03
							Malenchus		0.03
		Protozoa (Numbers/g)			Total	Mycorrhizal Colonization (%)			
		Flagellates	Amoebae	Ciliates	Nematodes #/g	ENDO	ECTO		
<b>Results</b>	<b>3510</b>	35096	350	<b>0.13</b>	14%	<b>0%</b>			
<b>Comments</b>	Low	Good	High	Low	Good	Low			
<b>Expected Range</b>									
Low	5000	5000	0	10	10%	10%			
High	50000	50000	100	20	50%	50%			
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>0.54</b>	<b>0.004</b>	<b>0.02</b>	<b>0.11</b>	100-150				
<b>Comments</b>	Low	Low	Low	Low					
<b>Expected Range</b>									
Low	1	0.1	0.1	1					
High	2	0.15	0.15	2					

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Dry Weight: Within normal moisture levels.

Active Bacteria: Bacterial activity within normal levels.

Total Bacteria: Excellent bacterial biomass.

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

Total Fungi: Excellent fungal biomass.

Hyphal Diameter: Good balance of fungi.

Protozoa: Lacking species diversity.

Total Nematodes: Low numbers, low diversity.

Mycorrhizal Col.: Normal colonization.

TF/TB: Too bacterial for some pasture grasses

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

AB/TB: Low bacterial activity relative to total biomass

AF/AB: Bacterial dominated, becoming more bacterial.

Interpretation Comments:

Actinobacteria Biomass = 3.63 ug/g  
Fairly good fungal diversity; hyphal diameter 1.5 to 5 um.  
VAM = hyphae & vesicles