

Initial Sample A		5/9/19
Beneficial Microorganisms	Minimug Requirements	Sample Results
Bacteria (µg)	300	1800
Actinobacteria (µg)	<1	0.01
Fungi (µg)	1,200	257
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.14
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		42,905
Amoeba (#/g)		10,726
<u>Nematodes</u>		
Bacterial-feeding (#/g)	200	100
Fungal-Feeding (#/g)	20	0
Predatory (#/g)	4	0
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	10,726
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Sample A		10/20/19
Beneficial Microorganisms	Minimug Requirements	Sample Results
Bacteria (µg)	300	1800
Actinobacteria (µg)	<1	0.01
Fungi (µg)	1,200	257
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.14
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		42,905
Amoeba (#/g)		10,726
<u>Nematodes</u>		
Bacterial-feeding (#/g)	200	100
Fungal-Feeding (#/g)	20	0
Predatory (#/g)	4	0
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	10,726
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Initial Sample B		5/9/19
Beneficial Microorganisms	Minimug Req	Sample Results
Bacteria (µg)	300	3000
Actinobacteria (µg)	<1	2
Fungi (µg)	1,200	670
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.22
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		0
Amoeba (#/g)		0
<u>Nematodes</u>		
Bacterial-feeding (#/g)	200	0
Fungal-Feeding (#/g)	20	
Predatory (#/g)	4	
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	0
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Sample B		10/20/19
Beneficial Microorganisms	Minimug Req	Sample Results
Bacteria (µg)	300	2600
Actinobacteria (µg)	<1	0.01
Fungi (µg)	1,200	766
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.29
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		76,452
Amoeba (#/g)		25,475
<u>Nematodes</u>		
Bacterial-feeding (#/g)	200	0
Fungal-Feeding (#/g)	20	0
Predatory (#/g)	4	0
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	25,475
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Initial Sample C		5/9/19
Beneficial Microorganisms	Minimug Req	Sample Results
Bacteria (µg)	300	7200
Actinobacteria (µg)	<1	0
Fungi (µg)	1,200	160
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.02
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		0
Amoeba (#/g)		0
<u>Nematodes</u>		
Bacterial-feeding (#/g)	200	0
Fungal-Feeding (#/g)	20	
Predatory (#/g)	4	
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	0
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Sample C		10/20/19
Beneficial Microorganisms	Minimug Req	Sample Results
Bacteria (µg)	300	4300
Actinobacteria (µg)	<1	0.01
Fungi (µg)	1,200	260
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.36
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		81,520
Amoeba (#/g)		20,380
<u>Nematodes</u>		
Bacterial-feeding (#/g)	200	400
Fungal-Feeding (#/g)	20	0
Predatory (#/g)	4	0
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	20,380
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Sample A	2/16/20	
Beneficial Microorganisms	Minimug Requirements	Sample Results
Bacteria (µg)	300	1400
Actinobacteria (µg)	<1	0.01
Fungi (µg)	1,200	360
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.26
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		64,358
Amoeba (#/g)		42,905
Nematodes		
Bacterial-feeding (#/g)	200	100
Fungal-Feeding (#/g)	20	0
Predatory (#/g)	4	0
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	0
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Sample B	2/16/20	
Beneficial Microorganisms	Minimug Req	Sample Results
Bacteria (µg)	300	2500
Actinobacteria (µg)	<1	0
Fungi (µg)	1,200	853
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.34
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		25,475
Amoeba (#/g)		25,475
Nematodes		
Bacterial-feeding (#/g)	200	400
Fungal-Feeding (#/g)	20	0
Predatory (#/g)	4	0
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	0
<u>Nematode</u>		
Root-feeding (#/g)	0	0

Sample C	2/16/20	
Beneficial Microorganisms	Minimug Req	Sample Results
Bacteria (µg)	300	1000
Actinobacteria (µg)	<1	0.01
Fungi (µg)	1,200	240
F:B Ratio (Fungal:Bacteria)	5:1-100:1	0.36
Protozoa (Total)	10,000-50,000	
Flagellate (#/g)		81,520
Amoeba (#/g)		108,693
Nematodes		
Bacterial-feeding (#/g)	200	400
Fungal-Feeding (#/g)	20	
Predatory (#/g)	4	
<b>Detrimental Microorganisms</b>		
<u>Disease Causing Fungi</u>		
Oomycetes (µg)	0	0
<u>Anerobic Protozoa</u>		
Ciliate (#/g)	0	0
<u>Nematode</u>		
Root-feeding (#/g)	0	0