

CUSTOMER INFORMATION			
Name:		Grower Name:	
Email		Field/Pile/Lagoon ID:	
Phone		Product Type:	
Bill To:		Primary Feedstock(s):	

Test ID/Product Name	Biological Product 1	Test Date	
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Species Summary			Functions of Interest		
Microbial Community Composition			Oxygen Availability		
Number of Microbes and Viruses	1,589		Anoxic Environment	60%	Medium
Top 10 Percentage	29%		High Oxygen Environment	84%	Very High
Top 50 Percentage	55%		Low Oxygen Environment	89%	Very High
Top 100 Percentage	67%		Carbon Cycling		
Fungal to Bacteria Ratio	69 to 1		Carbon Fixation	89%	High
Ectomycorrhizal to Arbuscular Ratio	1.92 to 1		Organic Carbon Breakdown	59%	Medium
Bacteria and Fungi			Methanogenesis	61%	Medium
Total Bacterial Species and Percentage	1540	96.9%	Nitrogen Cycling		
Anaerobic Bacteria Species	169	10.6%	Denitrification	89%	Very High
Aerobic Bacterial Species	829	52.2%	Nitrification	41%	Medium
Unclassified Bacterial Species	542	34.1%	Nitrogen Fixation	69%	High
Total Fungal Species and Percentage	37	2.33%	Organic Nitrogen Breakdown	73%	Medium
Anaerobic Fungal Species	4	0.25%	Nutrient Cycling		
Aerobic Fungal Species	25	1.57%	Phosphorus Mobilization	64%	High
Unclassified Fungal Species	8	0.50%	Potassium Solubilization	61%	High
Viruses and Pathogens			Sulfur Oxidation	54%	Medium
Total Virus Species and Percentage	12	0.75%	Sulfur Reduction	57%	Medium
Pathogens Percentage - Top 100	0	0.00%	Calcium Transport	61%	High
Key Metabolic Functions			Iron Acquisition	85%	Very High
Facultative Organisms	105	6.6%	Other Plant Growth Promoting Functions		
Obligate Organisms	13	0.8%	Nodulating Bacteria	58%	Medium
Microaerophilic Organisms	38	2.4%	Plant Stress Adaptation	83%	High



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Top Species Identified		AE = Aerobic AN = Anaerobic OA = Obligate Aerobic ON = Olbigate Anaerobic F = Facultative MA = Microaerophilic					
Top 200 Bacteria Identified							
1 Streptomyces	10.22% AE	26 Kitasatospora	0.54% OA	51 Nocardioiopsis	0.30% AE	76 Lentzea	0.19% AE
2 Mycobacterium	4.23% AE	27 Stenotrophomonas	0.50% AE	52 Cupriavidus	0.29% AE	77 Novosphingobium	0.19% AE
3 Pseudomonas	2.32% AE	28 Paenibacillus	0.49% AE	53 Lysobacter	0.29% OA	78 Cellulosimicrobium	0.19% AE
4 Sphaerobacter	2.06% OA	29 Actinoplanes	0.49% OA	54 Planifilum	0.28% OA	79 Acetivibrio	0.19% ON
5 Klebsiella	1.84% AE	30 Leifsonia	0.48% AE	55 Azospirillum	0.28% F	80 Saccharopolyspora	0.18% OA
6 Salmonella	1.83% F	31 Rhizobium	0.47% AE	56 Gordonia	0.28% AE	81 Pseudoxanthomonas	0.18% OA
7 Micromonospora	1.72% OA	32 Methylobacterium	0.46% OA	57 Microbispora	0.27% OA	82 Saccharothrix	0.18% OA
8 Nocardioides	1.54% OA	33 Pseudonocardia	0.46% AE	58 Thermomonospora	0.27% AE	83 Enterobacter	0.18% AE
9 Nitrospira	1.49%	34 Bacillus	0.45% AE	59 Corynebacterium	0.26% AE	84 Anaeromyxobacter	0.18%
10 Nonomuraea	1.37% AE	35 Saccharomonospora	0.43% OA	60 Paracoccus	0.26% AE	85 Xanthomonas	0.18% AE
11 Thermobifida	1.06% AE	36 Streptosporangium	0.42% OA	61 Brevundimonas	0.25% AE	86 Agromyces	0.18% AE
12 Microbacterium	0.98% AE	37 Cytopacillus	0.37%	62 Actinomarinicola	0.25%	87 Bosea	0.18% AE
13 Mesorhizobium	0.97% OA	38 Cellulomonas	0.37% AE	63 Staphylococcus	0.25% AE	88 Thioalkalivibrio	0.17% F
14 Bradyrhizobium	0.96% AE	39 Achromobacter	0.36% AE	64 Massilia	0.24% OA	89 Sphingobium	0.17% OA
15 Mycolicibacterium	0.93%	40 Iamia	0.35% OA	65 Roseateles	0.24% OA	90 Legionella	0.17% MA
16 Thermopolyspora	0.79% AE	41 Mycolicibacter	0.34%	66 Devosia	0.23% OA	91 Sphaerisporangium	0.17% OA
17 Burkholderia	0.79% AE	42 Nannocystis	0.34% AE	67 Thauera	0.22% AE	92 Clostridium	0.17% AN
18 Sphingomonas	0.77% AE	43 Ornithinimicrobium	0.33% OA	68 Aggregatilinea	0.22%	93 Agrobacterium	0.17% AE
19 Rhodococcus	0.74% AE	44 Kribbella	0.32% OA	69 Halomonas	0.21% OA	94 Curtobacterium	0.17% AE
20 Nocardia	0.71% AE	45 Paraburkholderia	0.32% AE	70 Enterococcus	0.21% MA	95 Luteitalea	0.17%
21 Amycolatopsis	0.69% OA	46 Variovorax	0.32% AE	71 Chelatococcus	0.20% OA	96 Thermobispora	0.16% AE
22 Actinomadura	0.62% AE	47 Tsukamurella	0.31% AE	72 Conexibacter	0.20% AE	97 Geodermatophilus	0.16% OA
23 Escherichia	0.60% F	48 Arthrobacter	0.31% OA	73 Phenyllobacterium	0.20% AE	98 Dermatobacter	0.16%
24 Methylocaldum	0.57% AE	49 Luteimonas	0.31% OA	74 Deinococcus	0.20% AE	99 Aquihabitans	0.16%
25 Sorangium	0.54% AE	50 Dactylosporangium	0.31% OA	75 Hyphomicrobium	0.20% AE	100 Microvirga	0.16% OA

Contact RhizeBio:
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Top 200 Bacteria (cont'd)							
101 Fictibacillus	0.155% F	126 Sandaracinus	0.119% OA	151 Pandoraea	0.099% AE	176 Coralloccoccus	0.084% AE
102 Shinella	0.154% OA	127 Actinomyces	0.119% AN	152 Acinetobacter	0.098% AE	177 Caballeronia	0.084% AE
103 Solirubrobacter	0.151% AE	128 Brachybacterium	0.118% AE	153 Ramlibacter	0.096% AE	178 Aquabacterium	0.083% AE
104 Ureibacillus	0.150% OA	129 Roseisolibacter	0.117%	154 Agrococcus	0.096% AE	179 Aquamicrobium	0.082% OA
105 Aeromicrobium	0.148% OA	130 Ancylobacter	0.117% OA	155 Marinobacter	0.095% OA	180 Phytohabitans	0.081% OA
106 Arenimonas	0.146% OA	131 Rhodopseudomonas	0.116% F	156 Leucobacter	0.095% AE	181 Modestobacter	0.081% OA
107 Frankia	0.145% AE	132 Stutzerimonas	0.115%	157 Comamonas	0.095% AE	182 Methylobacterium	0.080%
108 Aminobacter	0.143% OA	133 Rhodoplanes	0.115% AE	158 Povalibacter	0.094%	183 Rathayibacter	0.079% AE
109 Glycomyces	0.142% OA	134 Actinomycetospora	0.115% AE	159 Thermocatellispora	0.093% OA	184 Magnetospirillum	0.079% MA
110 Hydrogenophaga	0.141% AE	135 Kocuria	0.114% OA	160 Mycobacteroides	0.092%	185 Caldovatus	0.079%
111 Brevibacterium	0.139% AE	136 Sinorhizobium	0.113% AE	161 Georgenia	0.091% F	186 Nostocoides	0.078%
112 Bordetella	0.138% AE	137 Micrococcus	0.113% AE	162 Aeromonas	0.091% AE	187 Thermobacillus	0.077% AE
113 Catellatospora	0.137% OA	138 Hymenobacter	0.112% AE	163 Tautonia	0.090%	188 Steroidobacter	0.077% OA
114 Polyangium	0.136%	139 Ralstonia	0.110% AE	164 Roseomonas	0.090% AE	189 Phycococcus	0.077% OA
115 Caulobacter	0.135% AE	140 Bifidobacterium	0.110% AN	165 Piscinibacter	0.090% F	190 Isoptericola	0.077% AE
116 Caldimonas	0.133% AE	141 Actinokineospora	0.110% AE	166 Ottowia	0.089% F	191 Haliangium	0.076% OA
117 Myxococcus	0.132% AE	142 Paraliomyxa	0.109%	167 Brucella	0.089% AE	192 Cohnella	0.075% OA
118 Sphingopyxis	0.131% AE	143 Symbiobacterium	0.107% AN	168 Aureimonas	0.089% OA	193 Terrabacter	0.074% OA
119 Pallidibacillus	0.131%	144 Roseburia	0.107% AN	169 Anaerosalibacter	0.089% AN	194 Demequina	0.073% AE
120 Rhabdothermincola	0.129%	145 Nitratreductor	0.107% AE	170 Rossellomorea	0.088%	195 Actinacidiphila	0.073%
121 Oscillochloris	0.127% AN	146 Acidovorax	0.106% AE	171 Janibacter	0.087% AE	196 Pseudoduganella	0.072% OA
122 Microtetraspora	0.127% AE	147 Thermomonas	0.104% AE	172 Elioraea	0.087% AE	197 Microlunatus	0.072% OA
123 Serratia	0.122% AE	148 Caldilinea	0.104% AN	173 Dyella	0.087% OA	198 Kineococcus	0.072% AE
124 Chelativorans	0.121% OA	149 Solimonas	0.100% OA	174 Actinoallomurus	0.085% OA	199 Erythrobacter	0.072% AE
125 Blastococcus	0.120% AE	150 Sinimarinibacterium	0.099% AE	175 Streptacidiphilus	0.084% AE	200 Zoogloea	0.071% AE



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Top Species Identified		AE = Aerobic AN = Anaerobic F = Facultative AMF= Arbuscular Mycorrhizal ECM = Ectomycorrhizal									
Top 200 Fungi											
1	Candida/CUG-Ser1	1.00%	26	Verticillium	0.02%	51	Lasiodiplodia	0.01%	76	Wickerhamiella	0.01%
2	Trichocladium	0.18%	27	Apiotrichum	0.02%	52	Cystofilobasidium	0.01%	77	Thermomyces	0.01%
3	Aspergillus	0.12% AE	28	Tolypocladium	0.02%	53	Coniochaeta	0.01%	78	Rhizoctonia	0.01% AE
4	Fusarium	0.11% F	29	Clarireedia	0.02%	54	Claviceps	0.01%	79	Purpureocillium	0.01% F
5	Colletotrichum	0.09% AE	30	Apiospora	0.02%	55	Cladosporium	0.01%	80	Pseudozyma	0.01%
6	Mycena	0.07%	31	Cordyceps	0.02%	56	Vanrija	0.01%	81	Mrakia	0.01%
7	Rhodotorula	0.06%	32	Beauveria	0.02%	57	Ustilago	0.01% AE	82	Monosporascus	0.01%
8	Cutaneotrichosporon	0.06%	33	Neurospora	0.02% AE	58	Termitomyces	0.01%	83	Lactarius	0.01% ECM
9	Penicillium	0.05% AE	34	Metschnikowia	0.02%	59	Clavaria	0.01%	84	Grosmannia	0.01%
10	Xylaria	0.04%	35	Meruliopsis	0.02%	60	Saitozyma	0.01%	85	Diplodia	0.01%
11	Coemansia	0.04%	36	Malassezia	0.02% F	61	Russula	0.01% ECM	86	Cryptococcus	0.01% AE
12	Diaporthe	0.04%	37	Ganoderma	0.02%	62	Pyricularia	0.01%	87	Blastocladiella	0.01%
13	Saccharomyces	0.04% F	38	Starmerella	0.02%	63	Ophiocordyceps	0.01%	88	Sporisorium	0.01% AE
14	Melampsora	0.04%	39	Leptographium	0.02%	64	Ogataea	0.01% AE	89	Raffaelea	0.01%
15	Puccinia	0.04% AE	40	Hypoxylon	0.02%	65	Neofusicoccum	0.01%	90	Pseudogymnoascus	0.01%
16	Trichoderma	0.03% AE	41	Allomyces	0.02%	66	Mortierella	0.01%	91	Podospora	0.01%
17	Sporothrix	0.03%	42	Trichosporon	0.02%	67	Morchella	0.01%	92	Podosphaera	0.01%
18	Schizophyllum	0.03%	43	Pleurotus	0.02%	68	Ceratobasidium	0.01%	93	Parastagonospora	0.01%
19	Alternaria	0.03%	44	Exophiala	0.02%	69	Candida	0.01% AE	94	Naganishia	0.01%
20	Trametes	0.03%	45	Auricularia	0.02%	70	Calonectria	0.01%	95	Microdochium	0.01%
21	Moesziomyces	0.03%	46	Actinomortierella	0.02%	71	Aureobasidium	0.01%	96	Microbotryum	0.01%
22	Rhizopus	0.03%	47	Harringtonia	0.01%	72	Tilletia	0.01%	97	Gigaspora	0.01% AMF
23	Ophiostoma	0.03%	48	Gyromitra	0.01%	73	Phenoliferia	0.01%	98	Gaeumannomyces	0.01%
24	Cantharellus	0.03% ECM	49	Chaetomium	0.01%	74	Nigrospora	0.01%	99	Friedmanniomyces	0.01%
25	Botryosphaeria	0.03%	50	Talaromyces	0.01% AE	75	Lecanicillium	0.01%	100	Dipodascus	0.01%



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Top 200 Fungi (cont'd)							
101 Tremella	0.007%	126 Lipomyces	0.006%	151 Magnaporthiopsis	0.005%	176 Tilletiopsis	0.004%
102 Torulaspora	0.007% F	127 Linnemannia	0.006%	152 Leucosporidium	0.005%	177 Thyridium	0.004%
103 Thermothielavioides	0.007% AE	128 Hyaloraphidium	0.006%	153 Komagataella	0.005% AE	178 Thecaphora	0.004%
104 Thermochaetoides	0.007%	129 Hericium	0.006%	154 Hirsutella	0.005%	179 Syncephalis	0.004%
105 Staphylotrichum	0.007%	130 Golovinomyces	0.006%	155 Escovopsis	0.005%	180 Stagonosporopsis	0.004%
106 Psilocybe	0.007%	131 Dactylonectria	0.006%	156 Epichloe	0.005%	181 Stachybotrys	0.004%
107 Nemania	0.007%	132 Cryphonectria	0.006%	157 Elasticomyces	0.005%	182 Saccharomycopsis	0.004%
108 Meristemomyces	0.007%	133 Cladochytrium	0.006%	158 Didymobotryum	0.005%	183 Rhodosporidiobolus	0.004%
109 Hortaea	0.007%	134 Cercospora	0.006% AE	159 Didymella	0.005%	184 Rhizophagus	0.004% AMF
110 Hansfordia	0.007%	135 Cercophora	0.006%	160 Cubamyces	0.005%	185 Pseudohalonectria	0.004%
111 Graphilbum	0.007%	136 Yarrowia	0.005% AE	161 Coprinopsis	0.005%	186 Polyporus	0.004%
112 Fomitopsis	0.007%	137 Tulasnella	0.005%	162 Clonostachys	0.005%	187 Podila	0.004%
113 Dryadomyces	0.007%	138 Thielaviopsis	0.005%	163 Cladophialophora	0.005%	188 Plenodomus	0.004%
114 Daldinia	0.007%	139 Thelonectria	0.005%	164 Chrysoportha	0.005%	189 Pisolithus	0.004% ECM
115 Corynespora	0.007%	140 Suillus	0.005% ECM	165 Blastobotrys	0.005%	190 Phyllachora	0.004%
116 Ceratocystiopsis	0.007%	141 Sporobolomyces	0.005%	166 Auriscalpium	0.005%	191 Phanerochaete	0.004%
117 Yamadazyma	0.006%	142 Scedosporium	0.005%	167 Armillaria	0.005%	192 Pascua	0.004%
118 Tuber	0.006% ECM	143 Sarocladium	0.005%	168 Amanita	0.005% ECM	193 Papiliotrema	0.004%
119 Trichothecium	0.006%	144 Sanghuangporus	0.005%	169 Akanthomyces	0.005% AE	194 Ophioceras	0.004%
120 Tricholoma	0.006% ECM	145 Pseudocercospora	0.005%	170 Zymoseptoria	0.004%	195 Myxozyma	0.004%
121 Tausonia	0.006%	146 Pichia	0.005% AE	171 Zasmidium	0.004%	196 Metarhizium	0.004%
122 Schizothecium	0.006%	147 Phyllosticta	0.005%	172 Wickerhamomyces	0.004%	197 Lyophyllum	0.004% ECM
123 Plectosphaerella	0.006%	148 Pholiota	0.005%	173 Westerdykella	0.004%	198 Lasiosphaeria	0.004%
124 Niveomyces	0.006%	149 Phialophora	0.005%	174 Venturia	0.004%	199 Kwoniella	0.004%
125 Neonectria	0.006%	150 Pestalotiopsis	0.005%	175 Valsa	0.004%	200 Hymenoscyphus	0.004%