

# Oregon Department of Agriculture

## Fertilizer Program

### Microbial Analyses Results

January 1 – December 31, 2015

Official samples of fertilizer, agricultural mineral, agricultural amendment, and lime products are collected by the Department on a continuing basis. Samples are collected to determine if label guarantees are being satisfied. Routine product sampling provides a two-fold benefit: 1. Consumer protection for buyers; and 2. Identification of potential process problems for blenders and manufacturers.

The products listed below were sampled in the marketplace to assess their label guarantees of live microbial content. All were selected to be well within their label displayed expiration dates.

Three commonly guaranteed microbial genera were chosen for evaluation:

*Bacillus spp.*

*Pseudomonas spp.*

*Trichoderma spp.*

Individual species within genera were not identified. Rather, the measured count of a specific genus was compared to the sum of the genus guarantee(s) listed on the product label.

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Company	Product	Sample Matrix	Reg. Status at Sampling	Genus	Lab Analysis	Label Guarantee
<b>Advanced Nutrients</b> Abbotsford, British Columbia	Piranha Beneficial Fungi	Liquid	Unregistered	<i>Pseudomonas spp.</i> <i>Trichoderma spp.</i>	Not Detected Not Detected	125,000 cfu/ml 55,500,000 cfu/ml
<b>Baicor, L.C.</b> Logan, Utah	5-7-5 Tree Feast + Micros with Micro-Organisms Added	Liquid	Registered	<i>Bacillus spp.</i>	Not Detected	240 cfu/ml
<b>Beneficial Biologics</b> Arcata, California	Root Bloom Myco-Bacterial Inoculant	Dry	Registered	<i>Bacillus spp.</i> <i>Pseudomonas spp.</i>	3,000 cfu/g Not Detected	14,000,000 cfu/g 2,200,000 cfu/g
<b>Botanicare</b> Chandler, Arizona	Hydroguard Bacillus Root Inoculant	Liquid	Registered	<i>Bacillus spp.</i>	33,000 cfu/ml	10,000 cfu/ml
<b>Dr. Earth Company</b> Winters, California	SuperActive Natural & Organic Biological Soil Inoculant with Nitrogen Fixing Bacteria	Dry	Registered	<i>Bacillus spp.</i>	15,000,000 cfu/g	4,500,000 prop/cc
<b>Ecological Laboratories, Inc.</b> Cape Coral, Florida	Vegetable & Fruit Yield Enhancer-O	Liquid	Unregistered	<i>Bacillus spp.</i>	56,000,000 cfu/ml	20,250,000 cfu/ml
	0-0.5-0.09 Photosynthesis Plus-O	Liquid	Unregistered	<i>Bacillus spp.</i>	3,000 cfu/ml	20,250,000 cfu/ml
<b>GH Inc.</b> Sebastopol, California	0.1-0.04-0.02 Subculture-B Bacillus Root Inoculant	Dry	Registered	<i>Bacillus spp.</i> <i>Pseudomonas spp.</i> <i>Trichoderma spp.</i>	87 cfu/g Not Detected Not Detected	161,000,000 cfu/g 24,000,000 cfu/g 24,000,000 prop/g
<b>JRM Chemical, Inc.</b> Cleveland, Ohio	3-3-3 Mycorrhiza Container Mix Plus	Dry	Registered	<i>Bacillus spp.</i>	30,000 cfu/g	5,810,000 cfu/g

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<b>Kellogg Garden Products</b> Carson, California	Gardner & Bloome 0-2-0 Soft Rock Phosphate	Dry	Registered	<i>Bacillus spp.</i>	170,000 cfu/g	11,300,000 cfu/g
<b>Loveland Products</b> Greeley, Colorado	Accomplish LM	Liquid	Registered	<i>Bacillus spp.</i>	1,300 cfu/ml	5,000 cfu/ml
<b>Mycorrhizal Applications</b> Grants Pass, Oregon	1-0.5-5 Soluble Maxx	Dry	Registered	<i>Bacillus spp.</i> <i>Pseudomonas spp.</i> <i>Trichoderma spp.</i>	2,700 cfu/g Not Detected Not Detected	4,920,000 cfu/g 1,640,000 cfu/g 330,000 cfu/g
<b>Nachurs Alpine Solutions</b> Marion, Ohio	3-10-13 rhyzo-LINK Liquid Fertilizer PowerBlend Powered by bio-K	Liquid	Unregistered	<i>Bacillus spp.</i>	47,000 cfu/ml	35,010,000 cfu/ml
	3-10-13 rhyzo-LINK Liquid Fertilizer PowerBlend Powered by bio-K	Liquid	Registered	<i>Bacillus spp.</i>	53,000 cfu/ml	35,010,000 cfu/ml
<b>OG Biowar</b> Artesia, California	Root Pack Beneficial Microbes for Edible Crops	Dry	Registered	<i>Bacillus spp.</i> <i>Pseudomonas spp.</i> <i>Trichoderma spp.</i>	600 cfu/g Not Detected Not Detected	10,000,000,000 cfu/g 10,000,000,000 cfu/g 10,000,000,000 cfu/g
<b>OG Tea</b> Penngrove, California	0.75-2.15-2.10 Veganic Special Sauce Microbial Tea	Dry	Unregistered	<i>Bacillus spp.</i> <i>Pseudomonas sp.</i> <i>Trichoderma sp.</i>	2,700 cfu/g Not Detected Not Detected	400,000 cfu/g 100,000 cfu/g 1,000 cfu/g
<b>Organic Bountea</b> Forestville, California	Living Alaska Humisoil	Dry	Registered	<i>Bacillus spp.</i>	33 cfu/g	1,400 cfu/g

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<b>Santiam Organics</b> Albany, Oregon	Green 110 Hydro Power	Dry	Registered	<i>Trichoderma spp.</i> <i>Bacillus spp.</i>	Not Detected 1,600,000 cfu/g	152,000 prop/g 277,000 prop/g
<b>Southern Oregon Bokashi</b> Murphy, Oregon	Bokashi Dry Microbial Soil Amendment	Dry	Registered	<i>Bacillus spp.</i>	43 cfu/g	1,000,000 cfu/g

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