



Bioyield enhancers

Bioyield enhancers are microbial-based products that stimulate various underlying biochemical pathways related to enhancing the growth and yield of crops.

Designed to be applied from transplant throughout all the vegetative cycles of the plant, these products aid in early root establishment, uniform growth, stress resistance, and improved crop health.

A variety of bioyield enhancers are currently available:

RhizoPlex is composed of 18 species of endo- and ectomycorrhiza for increased nutrient and water uptake, high-impact microbes for healthier plant performance and a complex biostimulant for enhanced plant tolerance to stress. RhizoPlex is formulated in granular form designed for pot-based and soil-growing media.

RhizoMyco[®] and **RhizoMyx**[®] are uniquely formulated with different species of mycorrhiza to provide broad-spectrum application for increased nutrient and water uptake and enhanced root systems. They also contain a complex biostimulant to enhance plant tolerance to stress. RhizoMyco is formulated with 18 species of endo- and ectomycorrhiza, while RhizoMyx contains nine species of endomycorrhiza. RhizoMyco and RhizoMyx are designed for liquid drench application in both plant containers and in the field.

Proventus[®] **DS** and **Proventus LC** are proprietary formulations composed of humic acids combined with seaweed compounds to reduce stress during periods of water deficiency by significantly increasing root mass and leaf moisture. They also contain a vitamin package to ensure that there are no limiting nutritional factors and to maintain plant physiological process, thereby enhancing the plant's tolerance to stress. They are nonphytotoxic and available as soluble or liquid formulations for soil and foliar application through injection, irrigation, or sprayer systems.

Bioyield enhancers

– Guaranteed analysis

RhizoPlex

Microbial growing media amendment

Total Nitrogen (N), of which...	3.00%
Ammoniacal Nitrogen 0.60%	
Water Insoluble Nitrogen* 2.40%	
Available Phosphate (P ₂ O ₅)	3.00%
Soluble Potash (K ₂ O)	3.00%
Calcium (Ca)	1.00%
Magnesium (Mg), of which...	0.60%
Water Soluble Magnesium (Mg) 0.00%	

* Slowly available nitrogen from the feather meal component.

Derived from: Di-ammonium Phosphate, Kelp, Potassium Sulphate, Dolomite, Feather Meal

ALSO CONTAINS NON PLANT FOOD INGREDIENTS

Soil amending guaranteed analysis:

0.51% Bacterial Cultures

<i>Bacillus amyloliquifaciens</i> SB3002	6.00 x 10 ⁶ CFU/g
<i>Bacillus pasteurii</i> SB3003	2.50 x 10 ⁶ CFU/g
<i>Bacillus laevolacticus</i> SB3006	2.50 x 10 ⁶ CFU/g
<i>Bacillus licheniformis</i> DA-33	7.40 x 10 ⁶ CFU/g
<i>Paenibacillus azotofixans</i> SB3154	2.50 x 10 ⁶ CFU/g
<i>Bacillus subtilis</i> SB3175	4.21 x 10 ⁶ CFU/g

5% Mycorrhiza (# viable propagules/gram)

Ecto-mycorrhiza		Endo-mycorrhiza	
<i>Pisolithus tinctorius</i>	25,500	<i>Glomus intraradices</i>	2.3
<i>Rhizopogon villosuli</i>	1,275	<i>Glomus aggregatum</i>	2.3
<i>Rhizopogon luteolus</i>	1,275	<i>Glomus mosseae</i>	2.3
<i>Rhizopogon amylopogon</i>	1,275	<i>Glomus brasilianum</i>	0.003
<i>Rhizopogon fulvigleba</i>	1,275	<i>Glomus monosporum</i>	0.003
<i>Scleroderma cepa</i>	637.5	<i>Glomus deserticola</i>	0.003
<i>Scleroderma citrinum</i>	637.5	<i>Glomus clarum</i>	0.003
<i>Laccaria bicolor</i>	255	<i>Glomus etunicatum</i>	0.003
<i>Laccaria laccata</i>	255	<i>Gigaspora margarita</i>	0.003

Inert Ingredients

Humic Acids	10.00%
Lignin	2.5%
Ascorbic Acid (Vitamin C)	0.016%
Amino Acids	0.005%
Myo-inositol	0.0025%
Thiamine (Vitamin B ₁)	0.0015%

RhizoMyx®

Mycorrhiza inoculant

27.55% mycorrhiza (# of viable organisms/gram)

<i>Glomus intraradices</i>	25
<i>Glomus mosseae</i>	24
<i>Glomus aggregatum</i>	24
<i>Glomus clarum</i>	1
<i>Glomus monosporum</i>	1
<i>Glomus deserticola</i>	1
<i>Glomus brasilianum</i>	1
<i>Glomus etunicatum</i>	1
<i>Gigaspora margarita</i>	1

Inert ingredients

Humic acids	28.70%
Cold-water kelp extracts	18.00%
Ascorbic acid (vitamin C)	2.00%
Amino acids	6.00%
Myoinositol	2.50%
Surfactant	2.50%
Thiamine (vitamin B ₁)	1.75%
Alpha-tocopherol (vitamin E)	1.00%

500 g contain 39,500 propagules of endomycorrhiza.

RhizoMyco®

Mycorrhiza inoculant - soluble powder

23.3% Mycorrhiza (# of viable organisms/gram)

Ectomycorrhiza		Endomycorrhiza	
<i>Pisolithus tinctorius</i>	1,600,000	<i>Glomus intraradices</i>	21
<i>Rhizopogon villosuli</i>	80,000	<i>Glomus aggregatum</i>	20
<i>Rhizopogon luteolus</i>	80,000	<i>Glomus mosseae</i>	20
<i>Rhizopogon amylopogon</i>	80,000	<i>Glomus brasilianum</i>	1
<i>Rhizopogon fulvigleba</i>	80,000	<i>Glomus monosporum</i>	1
<i>Scleroderma cepa</i>	40,000	<i>Glomus deserticola</i>	1
<i>Scleroderma citrinum</i>	40,000	<i>Glomus clarum</i>	1
<i>Laccaria bicolor</i>	16,000	<i>Glomus etunicatum</i>	1
<i>Laccaria laccata</i>	16,000	<i>Gigaspora margarita</i>	1

Inert ingredients

Humic acids	28.90%
Cold-water kelp extracts	18.00%
Ascorbic acid (vitamin C)	12.30%
Amino acids	8.50%
Myo-inositol	3.50%
Surfactant	2.50%
Thiamine (vitamin B ₁)	2.00%
Alpha-tocopherol (vitamin E)	1.00%

500 g of this product contain 800,000,000 dry spores of *Pisolithus tinctorius*, 160,000,000 spores of four species of *Rhizopogon* (cold-tolerant ectomycorrhiza), two species of *Laccaria* (for high phosphorous soils/conditions) and two species of *Scleroderma* (for improved drought tolerance), plus nine species of endomycorrhiza (VAM) and other biological ingredients in a soluble form.

Proventus® DS

Proventus DS is an advanced complex formulation plant supplement that promotes seedlings, cuttings, installation, and transplanting.

Active ingredients

Humic acids	39.0%
Cold-water kelp extracts	25.0%
Ascorbic acid (vitamin C)	20.0%
Amino acids	9.0%
Myo-inositol	4.0%
Thiamine (vitamin B ₁)	2.0%
Alpha-tocopherol (vitamin E)	1.0%

Proventus® LC

Proventus LC is a liquid advanced complex formulation plant supplement that promotes seedlings, cuttings, installation, and transplanting.

Active ingredients

Cold-water kelp extracts	3.88%
Ascorbic acid (vitamin C)	3.00%
Humic acids	2.88%
Amino acids	1.00%
Myo-inositol	0.50%
Thiamine (vitamin B ₁)	0.30%
Alpha-tocopherol (vitamin E)	0.10%

For additional information
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Novozymes is the world leader in bioinnovation. Together with customers across a broad array of industries we create tomorrow's industrial biosolutions, improving our customers' business and the use of our planet's resources. Read more at www.novozymes.com.