



**Contains 10% PGIR – Plant Growth Inducing Rhizobacteria**  
 Fulvic Acid, Maltodextrin, Amino Acid, Molasses, Polysaccharides, Silica



**Benefits:**

- 66% A.I. Increases Nutrient Uptake
- Increases Microbial Growth & Activity
- Speeds Plant Establishment
- Increases Plant Health & Vigor
- Reduces - Prevents Plant Stress Symptoms
- Great Greens-Tee Summer Foliar Application
- Breaks Down Turf Thatch

*Most Advanced Turf & Ornamental Bio-Fertility Technology!*

**Applications:**

- Ornamental Installations
- Greens - Tee - Fairway Summer Foliar
- Turf Hydroseed Amendment
- Reclamation Soil Supplement
- LCO Summer Service Application

**PACKAGE SIZE:**

2.5 Gallons, 2 x 2.5 Gallons/Case

**Product Description:**

**BioPlex FULVIC FUSION™ plus PGIR** is a premium liquid bio-nutrient enhanced with polymicrobial strain PGIR (Plant-Growth-Inducing-Rhizobacteria). The polymicrobial strains have been selected for their ability to build strong relationships with turf and ornamental plants, creating a healthier environment more conducive for healthy, disease and stress resistant plant growth. This ingredient rich formulation (66% A.I.) combining a bio-nutrient source and PGIR increases microbial growth and activity while also providing greater opportunity for plant growth and increased vigor under stressful conditions such as disease, drought and salinity. Inoculating on a regular schedule provides a more productive soil that maximizes the benefits of your nutrient and control inputs, resulting in a healthier, more stress resistant plant.

**BioPlex Organics** inoculants are made with beneficial microorganisms that were originally isolated from the soil environment. Each beneficial microorganism is characterized for metabolite (primary and secondary) production and expression of plant growth promoting traits. Once **BioPlex** prescription inoculants are applied to the plant or soil, the microbial strains will reproduce on plant roots and affect their beneficial traits. These beneficial effects include the production of hormones, availability of micro-macro nutrients for plant uptake and the production of bio-surfactants. Most importantly, it is tank-mix compatible with most fertilizer and pesticide solutions.

**Formulation and Active Ingredient Profile**

GUARANTEED ANALYSIS:	
Total Nitrogen (N) .....	1.0% Soluble Potash (K <sub>2</sub> O) .....
1.0% Water-Soluble Nitrogen	1.0% <small>Derived From: Oil Seed Extract and Kelp</small>
NON-PLANT FOOD INGREDIENT(S):	
<b>10% Plant Growth Inducing Rhizobacteria – PGIR</b>	
<ul style="list-style-type: none"> <li>• <b>Bacillus subtilis:</b> Enzyme production facilitates nutrient solubilization and uptake. Produces lipopeptides and growth hormones that promote plant growth and increased photosynthesis.</li> <li>• <b>Bacillus methylotrophicus:</b> Siderophore production naturally chelates iron improving up-take and utilization. Biofilm formation holds nutrients in the soil and rhizosphere profile.</li> <li>• <b>Bacillus amyloliquefaciens:</b> Initiates root node strike, growth and development.</li> <li>• <b>Bacillus laterosporus:</b> Produces enzymes known to promote and allow root proliferation in the presence of adverse environmental conditions.</li> <li>• <b>Bacillus licheniformis:</b> Unbinds and disassociates soluble fertilizer salts from soil particles freeing up exchange sites for other cations. Enzyme production increases phosphorus solubilization and availability.</li> </ul>	
<b>54% Prescription Bio-Nutrient Sources – PBNS</b>	
<ul style="list-style-type: none"> <li>• <b>Fulvic Acid (5%):</b> Promotes antioxidant production mitigating stress damage to plant cells and improves micro-nutrient chelation.</li> <li>• <b>Oilseed Extract (20%):</b> Contains (19) L-amino acids which are a food source for microbes and serve as the building blocks of proteins, providing growth and repair of plant tissue. (Glutamic Acid, Glycine, Alanine, Proline, Arginine, Leucine, Valine, Lysine, Serine, Phenylalanine, Aspartic Acid, Threonine, Isoleucine, Tyrosine, Histidine, Methionine, Taurine, Cystine, Tryptophan)</li> <li>• <b>Kelp Extract (8%):</b> Two kelp sources, Ascophyllum nodosum and Ecklonia maxima provide a balanced blend of plant hormones that stimulate root, shoot, rhizome growth and root initiation.</li> <li>• <b>Molasses (10%):</b> Provides immediate food/energy substrate for microbes.</li> <li>• <b>Maltodextrin (10%):</b> Is a polysaccharide stimulating microbial activity.</li> <li>• <b>Silica (1%):</b> Increases plant hardness/rigidity improving stress tolerance and recovery.</li> </ul>	