



*A Novel Biological Inoculant for Seed Treating that Protects Plants Against Abiotic Stress and Improves Nutrient Use Efficiency*

**Agricultural Benefits**

Gives crops higher tolerance to environmental stresses  
 Enhances the availability of plant nutrients through the root system

**Applicability**

Treats seeds with beneficial microorganisms  
 Easy to use powder formulation that can replace common seed lubricants  
 Compatible with common seed treatment chemicals, fertilizers and biologicals

**CONTAINS NON-PLANT FOOD INGREDIENTS**

**Guaranteed Analysis**

Active Ingredients:

<i>Bacillus licheniformis</i>	(1x10 <sup>8</sup> cfu/g) . . . .	0.24%
<i>Bacillus megaterium</i>	(1x10 <sup>8</sup> cfu/g) . . . .	0.24%
<i>Bacillus pumilus</i>	(1x10 <sup>8</sup> cfu/g) . . . .	0.24%
<i>Bacillus subtilis</i>	(1x10 <sup>8</sup> cfu/g) . . . .	0.24%
<i>Bacillus amyloliquefaciens</i>	(1x10 <sup>8</sup> cfu/g) . . . .	0.24%
<i>Trichoderma harzianum</i>	(1x10 <sup>6</sup> cfu/g) . . . .	0.44%

Inactive Ingredients:

Dextrose . . . . .	10.80%
<u>Talc Powder . . . . .</u>	<u>87.56%</u>
Total . . . . .	100.0%

Net Weights: 1, 1.5, 5lbs (0.45, 0.68, 2.27kg)

Lot # & Expiration Date: \_\_\_\_\_

**Purpose**

**BioIQ<sup>®</sup>** is a commercial seed treatment containing a dynamic collection of symbiotic microbes. The fungi impart abiotic stress tolerance to crops for stresses such as extreme temperatures and drought. They also increase nutrient use efficiency, allowing plants to operate more efficiently and increase crop yields.

**BioIQ<sup>®</sup>** microbes will remain dormant when coated on seeds, until activated by moisture levels sufficient to stimulate seed germination. Upon activation, the bacteria will establish in rhizosphere soils and solubilize bound minerals and nutrients, making them more available to plants through their root system.

**BioIQ<sup>®</sup>** is formulated to be compatible with existing seed treatment equipment and chemicals and can be simply added as an additional component during the seed treatment process.

### **Application Directions**

To achieve optimal seed coverage, apply **BioIQ®** directly to dry seed alone or in combination with other powder inoculants and/or seed treatments. Do not mix directly with products containing fungicides or biocides. **BioIQ®** is compatible with common commercial seed treatment chemicals and other microbial treatments. Do not use with soil fumigants, and do not exceed label dosage rates. Because contents may settle, shake **BioIQ®** well before every use to achieve optimal seed coverage. **BioIQ®** is formulated to be compatible with existing seed treatment equipment and chemicals and can be simply added as an additional component during the seed treatment process.

**BioIQ®** microbial inoculant can be applied to seed following one of two methods:

- 1) The product can be applied manually using a scoop as seed is being loaded into the planter hopper (CCS unit) or individual row unit. Make sure the product is evenly dispersed onto the seed as it fills the hopper or row unit. If applied at the individual row unit, a power drill with an auger bit can be used to evenly disperse the product onto the seed.
- 2) The product can be applied using equipment designed to meter dry products onto seed as they are being transferred up a conveyor or auger either on the farm or at a seed treatment location. Be sure the product is applied evenly over the seed as it enters the conveyor or auger.

### **Application Rates:**

<b>Crop</b>	<b>Use Rate (Tbsp/100 lbs)*</b>	<b>Use Rate (cups/1,000 lbs)</b>
Corn	4	2.50
Soybean	2	1.25

\*2 Tbsp = 1 fluid oz

### **Storage**

To maintain performance of these live microbes, keep container closed until use and do not expose to direct sunlight, freezing, or temperatures above 80°F/27°C. For best results use product by expiration date on product label.

### **Disposal & Caution**

Follow any local applicable waste disposal regulations for inoculants and plant amendments. Wash hands with soap and water after using. Do not swallow or breath powder. Avoid contact with eyes and open skin. Keep out of reach of children and pets.

### **Warranty Statement**

The seller warrants that this product contains a minimum number of viable beneficial microorganisms as indicated on this label. The seller makes no other warranty expressed or implied as to product viability or performance since storage, use and growing conditions are beyond the seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

Where required, information regarding the contents and levels of metals in this product is available online at: [www.aapfco.org/metals.html](http://www.aapfco.org/metals.html)

### **Guaranteed By**

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