

# BioMantra Seed



Apply **BioMantra Seed** when planting crops, lawns, and gardens for uniform germination.

Healthy Plants Start with Strong Microbes



BioMantra Seed

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BioMantra™ Soil, Root, and Seed contain beneficial bacteria and fungi naturally found in healthy soil, with added humic acids, amino acids, and seaweed extract for natural soil restoration.



## Organic Farms



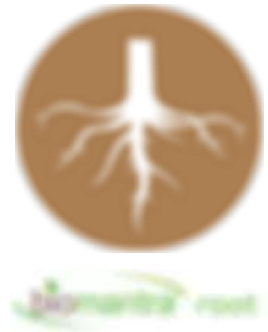
### Uniform Germination

Studies show that even a 24-hour delay in germination across plantings can decrease crop yields by up to 18%.



### Soil Restoration

Healthy, microbe-rich soil **thirstily absorbs water, minimizing run-off and standing water.** Soil health starts with naturally restoring the microbial activity of the soil.



### Soil Porosity

**Arbuscular Mycorrhizal fungi (AMF)**, along with other bacteria and humic acids, in BioMantra, help roots dig deeper and be more fibrous. This allows carbon and moisture to stay in the soil.

Reduce Input, Increase Profit

**BioMantra is safe to use on all crops**

with all types of treatments, including food sources and **organic-certified operations.**

**Increases in yield will be apparent in the first season,**

while subsequent use will build up healthy soil with active microbes that release the trapped NPK.

## FAQ



## Backed by Science

### BioMantra seed composition:

**Azotobacter chroococcum**

**Bacillus megaterium**

### **Bacillus megaterium**

"Bacillus megaterium inoculation stimulated growth and development. In particular, inoculated plants developed a robust root system with proliferating lateral roots."

## **Bacillus subtilis**

**Dextrose** (microbial food)

### **Azotobacter chroococcum**

"A. chroococcum is the first aerobic free-living nitrogen fixer. These bacteria utilize atmospheric nitrogen gas for their cell protein synthesis. This cell protein is then mineralized in the soil after the death of Azotobacter cells, thereby contributing towards the nitrogen availability of the crop plants."

"Additionally, **A. chroococcum** is plant growth promoting in stress conditions, especially saline soils."

### **Frateuria aurantia**

"Some plant growth-promoting rhizobacteria (PGPR) are also known as phosphate- and potassium-solubilizing bacteria through rhizosphere acidification. Among these, Bacillus megaterium and Frateuria aurantia were reported as efficient P- and K-mobilizing bacteria, respectively, thus being potentially exploitable in crop cultivation."

### **Bacillus subtilis**

"B. subtilis exhibit a synergistic effect on plant growth when they are applied in combination with AM fungi. The combined application results in greater promotion of plant growth, increased production of enzymes, antioxidants, P solubilization, biocontrol activity, root nodulation, and nitrogen fixation."



**Call Our Experts!**

920-251-5916