

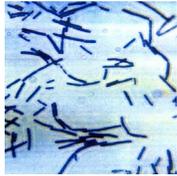
ACTIVATE™ INOCULANTS



ALL NATURAL MICROORGANISMS FOR PERMANENT AND ROW CROPS, NURSERY AND TURF

FEATURES AND BENEFITS

ACTIVATE™ INOCULANT products are guaranteed, naturally occurring, non-GMO, beneficial microbial products that enhance the biodiversity of the soil ecosystem. By maintaining a diverse spectrum of beneficial microorganisms in the soil, stronger plants and improved yields are seen, as well as improvements in the physical structure of the soil that create an optimum environment for plant growth.



Ongoing lab and field trials have demonstrated the wide range of improvements when **ACTIVATE™ INOCULANT** products are applied regularly to permanent crops such as trees and vines, as well as row crops, turf, and in nursery growing media. **ACTIVATE™ INOCULANT** products are diverse products with a broad range of use, including, encouragement of beneficial mycorrhizae, plant growth promotion and stimulation of root growth, enhancing of stubble digestion and nutrient recycling in the soil, and waste water treatment.



ACTIVATE™ MICROBES

Bacillus pumilus grows in a pH of 5-10 and produces amylase, protease, cellulase and the highest level of xylanase. *B. pumilus* will grow in up to a 5.5% salt solution. **B. megaterium** grows at a pH of 5-10 and produces amylase, protease, and cellulase. It has a very fast germination and growth, less than 1 hour in lab studies. **B. subtilis** grows at pH 4.5 to 10 and produces the highest enzyme level of all strains for amylase, protease, lipase, cellulase and xylanase. **B. licheniformis** grows at pH 5-10 and produces amylase, protease and a higher concentration of cellulase. It grows to a high concentration in waste degradation studies. It is a nitrate reducer and will grow in up to a 3.5% salt solution. **B. parabrevis** grows at pH 5-10 and produces amylase, protease and cellulase. **B. amyloliquefaciens** grows at pH 5.5-10 and produces amylase, protease and cellulase. It grows to a high concentration in waste degradation studies. It is a nitrate reducer and it can grow in up to a 3.5% salt solution.



EASY APPLICATION

ACTIVATE™ PMSLA

Soil Treatment: To enhance soil biology diversity use 50 to 100 grams (1 3/4 to 3 1/2 oz.) per crop cycle in multiple applications beginning at root flush in the spring. It is most effective when applied with a food supply of Wake Up Organo at a rate of 1/4 pound per 1,000 square feet. **Water Treatment:** For sumps, ponds, and hydroponics, use 10 grams per 1,000 gallons of water in the first application and 5 grams every day until the problem is remedied.



ACTIVATE™ 2004



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GUARANTEED ANALYSIS

ACTIVATE™ INOCULANT products contain differing combinations of the following organisms: *Bacillus pumilus*, *B. megaterium*, *B. subtilis*, *B. licheniformis*, *B. parabrevis* and *B. amyloliquefaciens*. Each organism is guaranteed in concentration of cfu's per gram. All the bacilli originated in natural soil environments and have not been mutated or genetically engineered. **ACTIVATE™ INOCULANT** products can be stored indefinitely at temperatures between 35° and 86°.



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