



Fact Sheet: EcoBac™

EcoBac is a balanced blend of selected strains of *Bacillus cereus* (ECO61), *B. cereus* (ECO89), *B. amyloliquefaciens* (ECO72) and *B. subtilis* (ECO71). EcoBac has been patented in the USA under the patent number 6,589,524B1.

The strains of EcoBac:

- Produce a diverse array of antibiotics
- Produce enzymes (chitinases) that break down the chitin in the cell wall of pathogenic fungi.
- Have active siderophores that sequester minerals essential for pathogenic fungi (Fe in *Fusarium*).
- Produce exo-enzymes and active metabolites that modify the microbial species composition that colonize the soil and foliage, inducing the establishment of a beneficial biological community for the plant
- Absorb essential nutrients more efficiently than deleterious bacteria, thus eliminating them by competition
- Produce vitamins and essential cofactors that stimulate plant defenses and growth.

Application rates

Apply EcoBac in a scheduled program starting at planting, and repeating the application every two to three weeks at a rate of 0.5 gallons/acre (1 gallon/hectare).

For better results EcoBac should be applied mixed with EcoNutrient. EcoNutrient is a dry feed that stimulates the growth of the strains of EcoBac and induces them to produce the active metabolites that result in disease control. EcoNutrient dissolves readily in water and should be added at a rate of 2 lbs per gallon of EcoBac.

Flush irrigation systems and sprayers with plenty of water to eliminate any pesticide residue before applying EcoBac. Avoid applying pesticides one week before and one week after applying EcoBac.

List of plant pathogens controlled by EcoBac

| Pathogen | Plant Host |
|----------------------------------|------------|
| <i>Botrytis</i> spp. | lettuce |
| <i>Fusarium</i> spp. | tomato |
| <i>Monilinia</i> spp. | peach |
| <i>Phytophthora capsici</i> | pepper |
| <i>Phytophthora cinnamomi</i> | avocado |
| <i>Phytophthora citricola</i> | avocado |
| <i>Phytophthora citrophthora</i> | citrus |
| <i>Phytophthora parasitica</i> | citrus |
| <i>Rizoctonia</i> spp. | turf |
| <i>Verticillium</i> spp. | strawberry |

If you would like to learn more about our unique line of ecological products please call +1 (305) 420-6633

or visit us on the Web at www.EcoMicrobials.com



