



*Microbes and plants are intimate partners in virtually every life process.*

PureAg Biologic Army is a unique combination of predatory bacteria and parasitic fungi. *Bacillus thuringiensis* is a natural occurring, soil-borne bacteria used for natural insect control. It consists of a spore, which gives it persistence, and a protein crystal within the spore, which is toxic. When the bacteria is consumed by certain insects, the toxic crystal is released in the insects highly alkaline gut, blocking the system which protects the pest's digestive system. The stomach is penetrated, and the insect dies by poisoning from the stomach contents and the spores themselves. This same mechanism makes BT harmless to birds, fish and mammals whose acidic gut conditions negate the bacteria's effect.



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## Benefits of Biologic Army™

- \* Spores germinate on the surface of insect hosts and penetrate through the cuticle, spreading systemically and causing death to the host.
- \* BT makes toxins that target insect larvae when eaten. Insects die as spores and gut bacteria proliferate in the body.
- \* No residues and no withholding period after application.
- \* Non-pathogenic bacterium that is found naturally in the soil.

Our parasitic fungi grow naturally in soils throughout the world and cause disease in various insects by acting as a parasitoid. When the insects come in contact with the fungi, the hyphae germinate and penetrate the cuticle. The fungus then develops inside the body, eventually killing the insect after a few days. This lethal effect is aided by the production of insecticidal cyclic peptides, an exudate from the hyphae.

### CONTAINS NON-PLANT FOOD INGREDIENTS:

Predatory Bacteria:  
*Bacillus Thuringiensis* (3 strains)

Parasitic Fungi:  
*Metarhizium Anisopliae*  
*Beauveria Bassiana*

### DIRECTIONS:

Mix 2 Tablespoons (30 grams) of PureAg Biologic Army per 1 gallon of water. The product works best when applied using low volume spray equipment. Application rates, frequency, spray coverage, and insect numbers impact the speed at which acceptable control is achieved. Mix well by external mixing, in-tank mixing, or pump circulation. May be applied up to the day of harvest. Apply at 7-day intervals to keep your crop clean and prevent sudden infestations. If you are applying after insects have become a problem, reduce the interval to 3-5 days. To regain control, make at least 3 applications.

### USES:

PureAg Biologic Army can be used on organic and conventional agricultural crops, nurseries, golf courses, sports fields, erosion control, and forestry. Works well in greenhouses, on ornamentals, perennials, annuals, vegetables, herbs, fruits, trees and shrubs.

Store in a cool, dry place. Shake well. Wash exposed areas thoroughly with soap and water after handling. Avoid eye contact.

**KEEP OUT OF REACH OF CHILDREN.**