

SPE-120 Soil and Plant Enhancer





Better Plants, Better Soil

Biological Seed Treatment

Soil and Plant Enhancer (SPE-120) with active ingredient *Beauveria bassiana*, is a natural, **beneficial fungus** that forms a symbiotic relationship with plants. JABB strains are isolated from plants, for plants. As the plant grows, the symbiotic endophyte in **SPE-120** grows with it, living in the roots, stems, and leaves. **SPE-120** is OMRI listed.

SPE-120 is applied as an inoculant at planting with no target disease or insect specified. There is no singular mode of action, rather a response to plant activity favoring its host. Once the plant germinates, **SPE-120** becomes a symbiotic endophyte within the plant that works with plant cells, other beneficial organisms, and the surrounding agroecosystem.

As an endophyte:

-  Offers competitive exclusion from soil-borne pathogens
-  Resistance to pests and pathogens
-  Improves germination and root development
-  Improves plant defenses
-  Improves photosynthesis efficiency
-  Resists mycotoxin production, resulting in cleaner and safer grains
Sub-threshold levels found in 2016-2021 harvests



This symbiotic partnership elevates the plant's natural ability to resist pathogens and stressors, ultimately improving plant health, quality, and yields.

Direct contact with seed is preferred to assure plant entry at germination. Applied on, under, or atop of seed allows **SPE-120** competitive preference to initial plant roots where it becomes a premier symbiotic endophyte within the plant.

Observed Results:

- | | |
|---|--|
| <p>Improved Plant Health</p> <ul style="list-style-type: none"> Treated dry beans resisted white mold infection. Leaf chlorophyll measured 4.2 points higher compared to untreated plants. | <p>Increased Yield</p> <ul style="list-style-type: none"> Organic corn up to 20 bushels/acre Soybeans up to 10 bushels/acre Potatoes up to 2000 lbs/acre Wheat up to 7 bushels/acre |
|---|--|

Liquid

SPE120-ES Soil & Plant Enhancer

For crop production as a **beneficial microbial to enhance plants and soils.**

Active ingredient: 1% *Beauveria bassiana*, min of 1×10^8 cfu/ml.

Ingredients: Certified Organic soybean oil and organic adjuvant, 99%. Substitute ingredients may be used in non-organic products. Users are responsible for NOP compliance.

NOTE: Store below 90° F.

Powdered Seed Lubricant

SPE120 - WITH SEED LUBRICANT Soil & Plant Enhancer

Plant enhancer contains a beneficial microbial that forms an essential symbiotic relationship enhancing plants and soil when established early in plant growth.

Active ingredient: 1% *Beauveria bassiana* (1×10^8 cfu/g).

1 acre treatment of SPE-120
2 oz. of 80/20 seed lubricant (mineral talc and graphite)

NOTE: Store below 90° F.

Application Rates

For best results, apply in direct contact with seed.

SPE-120 ES Liquid Inoculant:

Apply 1 oz/acre.

Additional adjuvant may be required depending on water quality.

SPE-120 WITH SEED LUBRICANT:

Apply 2 oz/acre of 80/20 seed lubricant (mineral talc and graphite).