

Technical Data Sheet

Beauveria bassiana

Agricultural Inoculant for Rhizosphere Balance & Soil Health

Beauveria bassiana is a beneficial fungus widely used in biologically managed systems to enhance rhizosphere diversity, support root health, and improve microbial interactions under environmental stress. It is a soil probiotic commonly found in biologically active soils, including those previously influenced by insect presence or environmental stress. This resilient strain supports microbial stability on root and foliar surfaces and contributes to early plant vigor across diverse conditions.

- Enhances microbial diversity and stability in insect-disturbed or biologically stressed soils
- Improves root colonization and rhizosphere interactions for early-stage plant development
- Supports organic matter transformation and nutrient cycling through microbial processes
- Integrates seamlessly into compost, foliar, and soil health programs across diverse systems

Technical Data

Concentration (CFU/g):

- 50 billion (5.0×10^{10}) CFU/g dry powder
- Custom concentrations available upon request

Particle Size (Mesh):

- Passes through 100 mesh sieve

Packaging Options:

- 13 lb (6 kg) pails
- 24 lb (11 kg) pails
- 198 lb (90 kg) drums
- Smaller custom packaging available on request

Shelf-life:

- 18 months at room temperature
- 24+ months refrigerated

Storage Recommendations:

- Store in a cool, dry location away from direct sunlight.
- Reseal container tightly after each use.

Application Rates

Soil Application (Drip, Drench, or Fertigation)

Dosage:

- 80–160 grams per acre (200–400 grams per hectare)

Frequency:

- At transplanting, and again during early root development
- Reapply every 2–4 weeks, depending on crop cycle and stress

Application Method:

- Dissolve thoroughly in water (ensure enough dilution volume to fully saturate the root zone)
- Use an agitation tank or manual stirring to maintain microbial suspension
- Apply through drip irrigation lines, micro-sprayers, or fertigation systems, positioning flow as close to the root zone as possible
- Flush the system after application to prevent clogging or residue buildup
- Do not tank mix with herbicides, fungicides, bactericides, or chemical pesticides

Seed Treatment

Dosage:

- 3–5 grams per kg of seed

Frequency:

- Single application before planting

Application Method:

- Mix thoroughly with a sticking agent (e.g., sugar solution, gum arabic, biopolymer coatings)
- Coat seeds evenly, ensuring full surface coverage
- Allow seeds to dry gently in the shade before sowing

Composting or Organic Matter Amendment

Dosage:

- 50 grams per ton of compost, organic substrate, or potting mix

Frequency:

- Single application before use or at the beginning of composting/soil blending

Application Method:

- For composting, first dissolve powder in water. Then spray piles and turn to evenly distribute product through the piles/windrows.
- For organic matter amendment, evenly mix the dry microbial powder into the growing media during turning or mixing

Foliar Spray

Dosage:

- 100–200 grams per acre (250–500 grams per hectare)

Frequency:

- Apply during vegetative growth or during periods of high stress
- Reapply every 7–14 days during periods of high stress

Application Method:

- Thoroughly dilute in water and apply to achieve uniform coverage, including leaf undersides.
- Apply in the early morning or evening to reduce UV exposure
- Use a non-ionic surfactant or wetting agent for improved adhesion
- Agitate spray solution continuously during application

Disclaimer: Results may vary depending on environmental conditions, application rates, and management practices. The manufacturer makes no guarantee of specific results. Seller's liability is limited to replacement of product or refund of purchase price. Manufacturer is not responsible for misuse, mishandling, or application under adverse conditions beyond its control. This product is not registered for pesticidal use with the U.S. Environmental Protection Agency. It is intended as a soil amendment / microbial inoculant only. Keep out of reach of children.