

Technical Data Sheet

Endo mycorrhizae

Endomycorrhizal Inoculant for Nutrient Uptake & Stress Tolerance

Endomycorrhizal fungi (arbuscular mycorrhizal fungi or AMF) are root-symbiotic microbes widely used in agriculture to enhance phosphorus uptake, improve soil structure, and increase plant stress resilience. By forming arbuscules within root cells and extending hyphal networks into the surrounding soil, these symbiotic fungi dramatically increase plant access to phosphorus, micronutrients, and water. This biofertilizer promotes glomalin production, improves root-fungal symbiosis, and contributes to long-term soil microbial balance. Endo mycorrhizae support abiotic stress tolerance in plants, enhance soil structure, and are ideal for use in organic mycorrhizal fungi programs and regenerative agriculture soil inputs.

- Facilitates phosphorus mobilization and uptake of zinc and copper through extended hyphal scavenging
- Expands root absorptive area and enhances early-stage growth and fungal root colonization
- Improves drought and salinity resilience through improved water and ion balance
- Promotes soil probiotic fungi activity and aggregate formation for better aeration and structure
- Reduces need for synthetic phosphorus fertilizers in organic and regenerative systems

Technical Data

Concentration (CFU/g):

- 6,000 propagules per gram dry powder
- Custom concentrations available upon request

Particle Size (Mesh):

- Passes through 60 mesh sieve

Packaging Options:

- 11 lb (5 kg) pails
- 22 lb (10 kg) pails
- 187 lb (85 kg) drums
- Smaller custom packaging available on request

Shelf-life:

- 2 years at room temperature
- 2+ years refrigerated

Storage Recommendations:

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

Application Rates

Row Crops (In-Furrow)

- **Rate:** 150 g per acre (375 g per hectare)
- **Use:** Suspend in water and apply directly into the seed furrow during planting, ensuring contact with the seed or early root zone.
- **Water Volume:** 10–20 gallons per acre for even coverage.
- **Notes:** Ideal for mechanized systems and uniform field establishment.

Root, Legume, and Specialty Crops (In-Furrow or Transplant Drench)

- **Rate:** 400 g per acre (1 kg per hectare)
- **Use:** Apply as an in-furrow spray during planting or as a drench immediately after transplanting to ensure direct contact with root surfaces. Drench applications are most effective in well-drained, porous soils.
- **Dilution:** 5–10 g per liter of water for localized drench or root dip applications.

Seed Coating / Seed Treatment

- **Rate:** 150 g per acre (375 g per hectare)
- **Use:** Mix the powder with a small volume of water or sticking agent (molasses, humic acid, or compatible polymer binder). Coat seeds uniformly and plant shortly after drying.
- **Suitable for:** Row crops, legumes, and cereals.
- **Timing:** Apply immediately before planting for maximum viability.

Soil & Media Incorporation

- **Rate:** 25 g per cubic yard (33 g per cubic meter) of finished compost. Standard range 20 to 30 g/yd³ depending on whether the compost is the main growing medium (lower end) or a concentrated amendment (higher end).
- **Use:** Blend the powder thoroughly and evenly into finished, cooled compost. For uniform distribution, pre-mix into a small volume of compost or a dry carrier before folding into the full batch. No water or sticking agent is required for dry incorporation. Place the treated compost in the root zone at planting.
- **Suitable for:** Finished, cured compost used as a potting medium, transplant mix, or root-zone amendment for vegetables, fruit trees, vines, and other endo-dependent crops.
- **Timing:** Blend just before potting or planting so propagules contact actively growing roots. Do not add to active or hot composting material.

BEST PRACTICES

- **Proper application ensures direct contact between propagules and developing roots**, allowing rapid colonization and consistent plant benefits.
- Maintain moist soil conditions for 1–2 weeks after application.
- Avoid high-phosphorus fertilizers during early establishment (phosphorus >100 ppm can inhibit colonization).
- Apply before or during root development to ensure effective symbiosis.
- Combine with organic amendments or compost teas to improve soil contact and microbial synergy.

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.