

# 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:**

- 22 lb (10 kg) pails
- 44 lb (20 kg) pails
- 340 lb (155 kg) drums
- Smaller custom packaging available on request

**Shelf-life:**

- 1 year at room temperature
- 2 years if refrigerated

**Storage Recommendations:**

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

## Application Rates

### In-Furrow or Root-Zone Placement

#### Dosage

- 100–150 grams per acre (250–375 grams per hectare)

#### Timing

- At planting or transplanting

#### Notes

- Mix with water or carrier; apply close to the root zone to create the root contact that is needed for colonization.
- Stir gently to suspend spores during application; avoid high-shear pumps
- Do not broadcast unless followed by incorporation near roots
- Avoid tank mixing with fungicides or high-phosphorus fertilizers
- Maintain soil moisture post-application to encourage colonization

### Soil Drench or Drip Irrigation

#### Dosage

- 100–200 grams per acre (250–500 grams per hectare)
- For faster colonization, apply a second time 30-60 days after initial dose

#### Notes

- Soil drench and drip irrigation method is best reserved only for use in porous soils
- Use sufficient water to carry inoculant to the root zone, product must contact root
- Stir gently to suspend spores during application; avoid high-shear pumps
- Avoid tank mixing with fungicides or high-phosphorus fertilizers
- Avoid chlorinated water and high-pressure systems.
- Maintain soil moisture post-application to encourage colonization

### Seed Coating / Seed Treatment

#### Dosage

- 150 grams per acre (375 grams per hectare)

#### Frequency

- Ensure uniform adhesion and avoid incompatible chemical treatments.

### Growing Media or Organic Amendment Integration

#### Dosage:

- 0.25–1 gram per seedling for most plugs, increase dose to higher end as root ball increases
- 450 grams per cubic meter of compost or amendment

**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.