

# TECHNICAL Data Sheet

*Bio-Green Mycorrhizae*



environmental products for a greener planet

## Key Benefits

- **Builds Soil Fertility:** Accelerates biological nutrient cycling and organic matter turnover, reinforcing soil structure and long-term productivity.
- **Improves Phosphorus and Micronutrient Uptake:** Expands the root's functional surface area to access phosphorus, zinc, and copper, supporting efficient fertilizer programs.
- **Enhances Root Architecture and Function:** Stimulates fine-root density and branching for greater nutrient and water absorption.
- **Boosts Drought and Stress Tolerance:** Increases water-use efficiency and osmotic balance so plants maintain metabolism and growth under drought, salinity, and heat.
- **Supports Sustainable Crop Performance:** Strengthens plant-soil interactions, improves nutrient-use efficiency such as nitrogen, and promotes a balanced, biologically active rhizosphere over time.

## Applications

- Row Crops & Cereals
- Horticulture & Vegetable
- Orchards & vineyards
- Greenhouse & High-Value
- Organic & Regenerative

## Concentration (CFU/g):

- Powder: 6,000 propagules per gram dry powder

Custom concentrations available upon request



## Product Description

**Bio-Green Mycorrhizae** is a multi-strain mycorrhizal inoculant for crops formulated to enhance root growth, nutrient uptake, and lasting soil fertility. This advanced arbuscular mycorrhizal (AMF) inoculant colonizes the rhizosphere, forming extensive hyphal networks that extend the effective root zone, improving access to water and immobile nutrients while supporting resilient plant performance across varied crops and soil conditions. As a microbial soil inoculant and mycorrhizal biofertilizer, it promotes long-term soil health and supports compatibility with sustainable and regenerative farming systems.

## Packaging Options

- Powder: Supplied in
  - 11 lb (5 kg) pails
  - 22 lb (10 kg) pails
  - 185 lb (85 kg) drums
- Custom/OEM and smaller formats available upon request

## Shelf Life & Storage

- 1 years at room temperature
- 2 years refrigerated
- Store in a cool, dry location away from direct sunlight.
- Reseal container tightly after each use.

[www.biogp.com](http://www.biogp.com)



## Application Guidelines

	Range	Optimal
pH Range	4.0 – 9.5	6.0 – 7.5
Temperature	40°F – 113°F (4°C – 45°C)	68°F – 95°F (20°C – 35°C)

## Application Rates

### 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.

### 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.

### 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.

## Contact Information

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