

# AM120

## Arbuscular Mycorrhizal Inoculum

**ENDOMYCORRHIZAL INOCULUM:** Endo (arbuscular) mycorrhizal inoculum shall consist of spores, mycelium, and mycorrhizal root fragments in a solid carrier suitable for handling by hydro-seeding or dry seeding equipment. The carrier shall be the material in which the inoculum was originally produced, and may include organic materials, vermiculite, perlite, calcined clay or other approved materials consistent with mechanical application and with food plant growth. Each endomycorrhizal inoculum shall carry a supplier's guarantee of numbers of propagules per unit weight of volume of bulk material.

### Use

Endomycorrhizal inoculum is a live material: it shall be transported and stored with a temperature of less than 32° C (90° F). Store under cool dry conditions. Do not expose inoculum to direct sunlight for extended periods of time.

**Caution:** This product produces dust...always wear a dust mask when handling.

**Seeding Rates:** 60lbs. Per acre (67.5 kg/ha)/1.4 lbs. Per 1,000 ft<sup>2</sup>(0.7 kg / 100 m<sup>2</sup>). Rate provides approximately 3,600,000 living propagules per acre (8,956,000 propagules /ha).

**Hydroseeding:** Apply in first pass with seed and a controlled release or organic fertilizer. A second pass with mulch to cover exposed seed and inoculum is recommended.

**Seed Drilling:** Incorporate into the soil at a depth ranger at or below the seed.

**Broadcast and Till:** Evenly distribute across seedbed after seeding. Cover the exposed seed and inoculum by harrowing, chain dragging or applying an organic topdressing. Do not leave inoculum exposed to sunlight for more than four hours.

**Row Crop Applications:** Side dress seed furrows or transplants at rates of 5 to 8 lbs. per acre (5.61 kg/ha) on 30 inch to 40 inch spaced rows. Rate provides 18 to 28 living propagules per linear foot of row crop (60 to 90 living propagules per meter of row crop). Incorporate at 2 inches to 6 inches (5 to 15 cm) below soil surface.

**Nursery Medium:** Evenly blend at 5 lbs per yd<sup>3</sup> (3 kg. Per m<sup>3</sup>). 1 lb. (454 grams) contains approximately 60,000 living propagules. Rate provides 300,000 living propagules per yd<sup>3</sup> (396,000 living propagules per m<sup>3</sup>) or 6.5 living propagules per in<sup>3</sup>.

### **Statement of Claims:**

RTI certifies that this product contains one or more species of mycorrhizae fungi at a minimum rate of 120 propagules per cubic centimeter. The Mycorrhizal symbiosis is sensitive to environmental conditions and RTI is unable to make any guarantees beyond the above statement.

**Auxilliary Biotic Soil and Plant Substance  
Non Plant Food Ingredient**



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### ARBUSCULAR MYCORRHIZAL FUNGAL ANALYSIS

#### SPORE, HYPHAE AND ROOT FRAGMENTS EXTRACTION AND COUNT

**Method:** One sample of 20 gr dry weight was processed by wet sieving/sucrose centrifugation.

Sieves used were 1 mm, 250 and 38 microns opening mesh respectively.

Final extract was stained with 10 drops of Aniline Blue 0.05% in lactoglycerol.

Analysis was done with a dissecting scope using 6-40x magnification.

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### PACIFIC COAST SEED AM 120 LOT # 111115

Arbuscular Mycorrhizal Fungal Propagules in 20 gr.				
Sample ID	Spores	Hyphae	Mycorrhizal root fragments	Total mycorrhizal propagules
111115	1402	5000	20	6422
Arbuscular Mycorrhizal Fungal Propagules in 1 gr.				
Sample ID	Spores	Hyphae	Mycorrhizal root fragments	Total mycorrhizal propagules
111115	70	250	1	321