

PHC® Nursery Media Mix

PHC® Nursery/Media Mix is a highly effective, dry, spore inoculant for establishing vesicular-arbuscular mycorrhizal (VAM) fungi symbiosis on roots of many horticultural plants, including trees and shrubs, flowers, grasses, and herbs. VAM plants have better survival and growth, absorb more phosphorus and other mineral elements, and have improved abilities to efficiently absorb more water from soil than plants without VAM. This product also contains several strains of nitrogen fixing and phosphorus solubilizing bacteria. All these beneficial biological microorganisms are blended with organic soil amendments, in a granular form.

PHC® Nursery Media Mix:

- Improves absorption of water and minerals from the soil
- Helps plants mitigate adverse environmental stressors such as drought, salinity, and extremes of soil pH

DIRECTIONS FOR USE

PHC® Nursery Media Mix can be applied by blending into the potting mix or by tilling into the nursery bed.

FOR NURSERY BEDS Apply 1/2 pound per 100 square feet or 2 pounds per 100 linear feet and till into the top 2 inches of the soil just prior to seeding. At this rate, the product applies a minimum of 200 VAM spores per sq ft, based on standard beds of 4 feet width.

FOR POTTING MIXES For containers of 2 quarts volume or larger, mix dry product with potting soil at a rate of 1 pound per cubic yard of soil. For smaller containers, the rate must be increased to insure a minimum amount of spores per pot or cell. Increase the rate based on container size according to the enclosed charts.

For small container plug trays, use PHC® Mini Plug.

APPLICATION RATES

Container Volume (cu. inch)	MIX RATE Lb. per cubic yard
150 (or larger)	1
60 (1 quart)	1.5
30 (1 pint)	2.3
20 inches	3.5
15 inches	3.8
9 inches	5.15
3 or smaller	Use PHC® Mini Plug

COMPATABILITY

Soil pH: The fungi in this product were chosen based on their ability to survive and colonize roots of numerous plant species within a pH range of 3.0 to 8.0.

Fungicides: As a general rule, nonsystemic fungicides applied to aboveground plant parts, at label rates and using recommended procedures, have little effect on VAM development. When using systemic fungicides, apply PHC® Nursery/Media Mix 2 weeks before or after fungicide application, and at minimal concentrations recommended by manufacturers. Avoid soil-drench fungicides.

Other Pesticides: Nematicides and insecticides applied to actively growing plants do not normally affect VAM. Herbicides that kill host plants will also kill VAM fungi. Herbicides recommended for "over-the-top" application to the host plant that do not affect the plant will not affect its VAM. Insecticides and herbicides applied at label rates

GRANULAR MYCORRHIZAL FUNGAL INOCULANT WITH RHIZOSPHERE BACTERIA

GUARANTEED ANALYSIS OF SOIL/PLANT AMENDING INGREDIENTS

VA Endomycorrhizal (VAM) Fungi.....40,000 spores/Lb
 10,000 spores/Lb *Glomus clarum*
 10,000 spores/Lb *Glomus etunicatum*
 10,000 spores/Lb *Glomus intraradices*
 10,000 spores/Lb *Entrophospora columbiana*

Rhizosphere *Bacillus* spp......8.4 Billion cfu/Lb
 1.4 Billion cfu/Lb *Bacillus licheniformis*
 1.4 Billion cfu/Lb *Bacillus megaterium*
 1.4 Billion cfu/Lb *Bacillus polymyxa*
 1.4 Billion cfu/Lb *Bacillus subtilis*
 1.4 Billion cfu/Lb *Bacillus thuringiensis*
 1.4 Billion cfu/Lb *Paenibacillus azotofixans*

SOIL/PLANT AMENDING INGREDIENTS.....% by Weight

Seaweed Meal (*Ascophyllum nodosum*) 50.2%
 Humic acids22%
 Maltodextrin2.7%
 Yeast Extract.....1%
 Formononetin0.2%

INERT INGREDIENTS23.9%

12.6% Non-humic acid components of Leonardite
 7.2% Mineral Oil (USP)
 3.3% Kaolin Clay
 0.8% Talc

do not affect the beneficial bacteria in this product.

STORAGE/SHELF LIFE

This product is stable in cool, dry storage conditions. See expiration date on package.

HEALTH AND SAFETY INFORMATION

- In case of allergic reaction(s), treat symptoms and contact physician.
- Avoid breathing dust or spray mist.
- Wash hands after handling.
- In case of ingestion, seek medical attention.
- **Keep out of reach of children.**

PACKAGING

By-the pound

TECHNICAL ASSISTANCE

For technical assistance, call 1-800-421-9051

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