

# PHC® Mini Plug Media Mix

PHC® Mini Plug is a highly concentrated, dry mix spore inoculant for establishing vesicular-arbuscular mycorrhizal (VAM) symbiosis on roots of plants grown in small container plugs, including trees and shrubs, flowers, fruits and vegetables. A high propagule concentration is needed to ensure adequate distribution of spores throughout the medium. VAM plants have better survival and growth, absorb more nutrients, especially phosphorus and other mineral elements, and have improved abilities to efficiently absorb more water from soil than plants without VAM. PHC® Mini Plug contains spores and other propagules of two different VAM fungi that are compatible with most VAM plants. The spore concentration is very high (288,000 per pound) to ensure inoculation of small containers and plugs. PHC® Mini Plug also contains Colonize™, our proprietary stimulant of VAM fungi, to promote rapid colonization of the root system. *PHC® Mini Plug:*

- Improve water uptake and drought tolerance
- Increase absorption of mineral elements
- Improve survival by minimizing "transplant shock"
- Improve growth and yield especially under stress
- Improve survival and growth of difficult-to-grow plants

## DIRECTIONS FOR USE

PHC® Mini Plug is applied by blending thoroughly into the potting mix at a rate of 2 pounds per cubic yard (1-Kg/m<sup>3</sup>). For tomatoes and peppers, use 4 pounds per cubic yard (2-Kg/m<sup>3</sup>). Avoid high levels of fertilizer, especially available phosphorus, which can inhibit VAM development and mask its benefits to plants. PHC® Mini Plug can be used alone, or as the initial phase of a comprehensive program involving microbial products like PHC® BioPak®, Compete® Plus as well as the surfactant Yuccah®. Contact Plant Health Care, Inc. for information on a complete program.

## FUNGICIDES

Some fungicides (especially systemic fungicides like Benomyl) can have a detrimental effect on VAM fungi. Soil application of any fungicide is not recommended until at least two weeks after inoculation of the potting medium. Foliar application of nonsystemic fungicides poses no problems.

## STORAGE/SHELF LIFE

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

## HEALTH AND SAFETY INFORMATION

- Wash hands after handling.
- Do not inhale dust.
- Do not ingest.
- In case of allergic reactions, treat symptoms and contact a physician.
- **Keep out of reach of children**

## PACKAGING

4-Lb box

## MYCORRHIZAL (VAM) FUNGAL INOCULANT FOR PLANT PLUGS IN SMALL CONTAINERS

### NOT A PLANT FOOD PRODUCT

### GUARANTEED ANALYSIS OF SOIL AMENDING INGREDIENTS

VA Endomycorrhizal Fungi.....288,000 spores/Lb  
144,000 spores/Lb *Entrophospora columbiana*  
144,000 spores/Lb *Glomus intraradices*

Formononetin .....1%

### INERT INGREDIENTS .....99%

Vermiculite .....57%

Greensand .....20%

Clay .....15%

Talc .....5%

U.S.P. Mineral Oil .....2%

## TECHNICAL ASSISTANCE

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

### Benefits of VAM Fungi

Plants grown in soil-less media or fumigated soils often suffer from a root system that lacks the beneficial mycorrhizal fungal partnerships which are important for natural, healthy growth. By inoculating roots with proven VAM fungal associates early in life, the health of these plants is greatly enhanced. VAM fungi occur naturally on the majority of plant species of the world, but are often absent in artificial propagation systems. Flowers, vegetables (except *Brassica*), bedding plants and other plants propagated in mini plugs benefit from this inoculant.

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