

Crop Production for Tomatoes

► GREENHOUSE PROGRAM

The goal of the PHC Agricultural Greenhouse and Field Program is to reestablish the partnership of mycorrhizal fungi and beneficial bacteria with the roots of selected vegetable and fruit crops grown in miniature container plugs. Through the Greenhouse Program, we reestablish a functional biological ecosystem that under field conditions can:

- Create a more extensive and efficient root system
- Optimize water and mineral nutrient absorption
- Reduce transplant losses
- Improves establishment and growth of plants grown from transplants
- Introduce rhizobacteria to increase mineral element solubility (P, K, Ca, etc.), fix nitrogen and increase mineral availability



INOCULATION OF POTTING MIX

PHC® Mini Plug: A highly concentrated, proprietary dry mix spore inoculant for establishing vesicular-arbuscular mycorrhizal (VAM) symbiosis on roots of plants grown in small container plugs. Included within the Mini Plug mix is a patented, naturally-occurring isoflavonoid VA endomycorrhizal fungal stimulant designed to enhance rapid colonization of plant roots.

Inoculation of Potting Mix	
Product	Rate
PHC Mini Plug	Less than 200 ml: 4-Lbs per cubic yard More than 200 ml: 2-Lbs per cubic yard

PLUG DRENCH TREATMENTS

PHC® Colonize™ AG: This versatile product is a biological inoculant designed to promote the establishment of beneficial plant-microbe soil interactions in the root zone. It utilizes a dual strategy acquired from nature.

- First, it is a microbial inoculant containing six species of rhizosphere bacteria that fix nitrogen, solubilize phosphorus and recycle mineral nutrients through the breakdown of organic matter
- Second, Colonize AG contains actinomycetes and Trichoderma fungi to provide a versatile mix of beneficial microbes
- Finally, Colonize AG contains Myconate® (formononetin) which increased the degree of root colonization by VA mycorrhizal fungi. Working together, the beneficial bacteria, fungi, actinomycetes and mycorrhizal fungi promote plant health and improve soil fertility and plant nutrition in a natural way

Yuccah®: An enhanced botanical wetting agent and soil penetrant that nourishes soil microbials while promoting uniform water movement through soil and soilless media mixes.



Plug Drench Treatment	
Product	Rate
PHC Colonize AG	1-Lb. per 100 gallons of water
Yuccah	12-oz. per 100 gallons of water

PHC Colonize AG and Yuccah are applied in a combined product spray.
Use PHC Colonize AG and Yuccah as a drench treatment 1-2 times prior to shipment of transplants.



"Nourishing the environment we live in"

SUSTAINABLE LANDSCAPE SUPPLY

7345 International Place • Suite 107

Sarasota, Florida 34240

941.706.4450 Fax: 941.706.1415

www.sustainablelandscapesupply.com



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► FIELD PROGRAM

FIELD MAINTENANCE PROGRAM

PHC® Colonize™ AG: This versatile product is a biological inoculant designed to promote the establishment of beneficial plant-microbe soil interactions in the root zone. It utilizes a dual strategy acquired from nature.

- First, it is a microbial inoculant containing numerous strains of rhizosphere bacteria that fix nitrogen, solubilize phosphorus and recycle mineral nutrients through the breakdown of organic matter
- Second, Colonize AG contains actinomycetes and Trichoderma fungi to provide a versatile mix of beneficial microbes
- Finally, Colonize AG contains Myconate® (formononetin) which increased the degree of root colonization by VA mycorrhizal fungi. Working together, the beneficial bacteria and mycorrhizal fungi promote plant health and improve soil fertility and plant nutrition in a natural way

Yuccah®: An enhanced botanical wetting agent and soil penetrant that nourishes soil microbials and promotes uniform water movement through soil and soilless media mixes.



Plant Water Treatment	
Product	Rate
PHC Colonize AG	1-Lb. per 100 gallons of water
Yuccah	12-oz. per 100 gallons of water

Apply Colonize AG and Yuccah in the plant water at time of transplanting.

Drip Irrigation Treatment	
Product	Rate
PHC Colonize AG	½-Lb. per 7,260 linear feet
Yuccah	2-oz. per 7,260 linear feet

Mix thoroughly to dissolve. To avoid settling of suspended materials in the concentrate during irrigation, occasional stirring is necessary. Remove all in-line screens less than 170 mesh. For best results, repeat application throughout the season at 2 to 3 week intervals.

Injection Wheel Application	
Product	Rate
PHC Colonize AG	1-Lb. per 50-100 gallons of water
Yuccah	12-oz. per 50-100 gallons of water

Use Colonize AG and Yuccah as an injection wheel application without fertilizer at 2-3 week intervals.



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