

# COLONIZE AG™

## MICROBIAL SOIL INOCULANT AND VAM FUNGAL STIMULANT

PHC® Colonize™ AG is a biological inoculant designed to promote the establishment of beneficial plant-microbe-soil interactions in the root zone. PHC® Colonize™ AG utilizes a dual strategy acquired from Nature. First, it is a microbial inoculant containing numerous strains of rhizosphere bacteria and fungi that fix nitrogen, solubilize phosphorus, and recycle mineral nutrients through the breakdown of organic matter. These include spores of select strains of *Bacillus* and *Streptomyces* bacteria, and *Trichoderma* fungi. Second, PHC® Colonize™ AG contains formononetin, which increases the degree of root colonization by introduced or native vesicular-arbuscular mycorrhizal (VAM) fungi. Together, the activities of these beneficial bacteria and fungi promote plant health by improving soil fertility and plant nutrition in the natural way.

**DIRECTIONS FOR USE: Greenhouse program: Plug Drench Treatment:** Mix PHC® Colonize™ AG with water at a rate of 1-Lb per 100-gallons water and adjust travel speed as needed to treat 800 standard flats. Apply as a drench 1 week after seeding and again 7-10 days before shipping to the field. **Field Program: Plant Water Treatment:** Mix with the plant water at a rate of 1-Lb per 100 gallons and apply 3-oz per plant. **Planting for Potatoes:** Use 1-2 oz in sufficient water to treat 14,520 row feet. Spray or trickle product on the seed pieces while the furrow is open. **Drip Irrigation Treatment:** Thoroughly mix PHC® Colonize™ AG with water before pouring it into the head bucket (injector box). Use at least 1-gallon of water for mixing each Lb of product. Apply by drip irrigation at a rate of 1/2-Lb per 7260 linear feet of plant bed, or 1.1-oz for each 1000 linear feet. For best results, repeat application throughout the season at 2 to 3 week intervals. **Citrus and Tropical Fruit Tree Program: Drip Irrigation Treatment:** Thoroughly mix PHC® Colonize™ AG with water first before pouring it into an agitated mix tank. Apply by drip irrigation at a rate of 1/2-Lb per acre. For best results, repeat application throughout the season at 2 to 3 week intervals.

### CONTAINS NON-PLANT FOOD INGREDIENTS

### NOT A PLANT FOOD PRODUCT

#### ACTIVE PLANT/SOIL AMENDING INGREDIENTS

Beneficial Rhizosphere Microbes.....	311 Million cfu/g
50 Million cfu/g <i>Paenibacillus azotofixans</i>	
50 Million cfu/g <i>Bacillus licheniformis</i>	
50 Million cfu/g <i>Bacillus megaterium</i>	
50 Million cfu/g <i>Bacillus polymyxa</i>	
50 Million cfu/g <i>Bacillus subtilis</i>	
50 Million cfu/g <i>Bacillus pumilus</i>	
10 Million cfu/g <i>Streptomyces griseoviridis</i>	
1 Million cfu/g <i>Trichoderma harzianum</i>	

<b>MICROBIAL NUTRIENTS</b> .....	61.2%
41% Maltodextrin	
14.2% Soluble Seaweed Extract (derived from <i>Ascophyllum nodosum</i> )	
5% Yeast Extract	
1% Yucca Extract (derived from <i>Yucca schidigera</i> )	

Humic Acids (derived from Leonardite) .....	18.5%
Formononetin .....	0.9%

<b>INERT INGREDIENTS</b> .....	19.4%
8% Precipitated Silica	
8.4% Leonardite Extract (other than humic acids)	
3% Polyethylene glycol	

Lot No./Exp. Date Information:

Net Wt 2.5-Lb (5 x 0.5-Lb packs) 1.14-Kg

Net Wt 5-Lb (2.27-Kg)

**STORAGE:** Store in a dry place away from direct sunlight, and avoid extreme heat or cold.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Manufactured by Lebanon Seaboard Corporation exclusively for:

**Plant Health Care, Inc.**

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