

WHAT IS PRO-MIX® BIOFUNGICIDE™ ?

PRO-MIX® Biofungicide™ are growing media products enhanced with a naturally occurring strain of bacteria called *Bacillus subtilis*-MBI600. This bacterium combats harmful organisms to reduce the onset of root diseases and enhances plant growth. PRO-MIX® Biofungicide™ products are the **first and only** approved growing media that are registered with the EPA as a biofungicide.

HOW DOES PRO-MIX® BIOFUNGICIDE™ WORK ?

When the plant's root system comes into contact with *Bacillus subtilis*-MBI600, the bacterial spores germinate and begin to colonize the roots within 48 hours. The bacteria grow around the root system to form a protective shield that serves as a physical barrier to certain root rot pathogens. In return, the plant produces metabolites that serve as food for the organism. *Bacillus subtilis*-MBI600 also produces an antibiotic that wards off pathogens.

WHAT ARE THE BENEFITS OF *Bacillus subtilis*-MBI600 in PRO-MIX® BIOFUNGICIDE™

- Reduces the incidence of damping-off, crown rot and root rot caused by *Fusarium*, *Pythium* and *Rhizoctonia*.
- Improved germination and survivability of transplants and plugs.
- Enhanced plant vigor and better uniformity with crops.
- Healthier and more vigorous root system.

WHAT CROPS BENEFIT ?

- Disease suppression occurs with all crops including vegetables, ornamental greenhouse plants, perennials, nursery crops and agricultural crops.
- *Bacillus subtilis*-MBI600 stays with the plant root system for its entire life.

HOW DOES THE GROWER BENEFIT ?

- Reduced management costs for disease control.
- Less dependence on chemical fungicides.
- Reduced exposure to chemical controls.
- Reduced risk of developing pathogen resistance.
- Zero REI.
- Pesticide license is not required for purchase or use.
- Safe to use - no human or plant toxicity.
- Less expensive than most Biocontrol Agents
- No need to re-apply as with other biological fungicides.

WHAT IS THE STORAGE AND SHELF-LIFE OF PRO-MIX® BIOFUNGICIDE™

- The *Bacillus subtilis*-MBI600 bacteria survive up to two years. However, we recommend use of the product within **6 - 9 months** of delivery due to aging of other components in the growing media.
- Maintain media storage temperatures below 48 C° (120 F°)

DO I NEED TO MODIFY MY GROWING PRACTICES ?

- No changes in fertilization or other growing practices required!
- All fungicides, insecticides, plant growth regulators and biological control agents tested are compatible including Zerotel and Phytan 27.

WHERE IS PRO-MIX® BIOFUNGICIDE™ REGISTERED FOR USE ?

PRO-MIX® Biofungicide™ is registered for use in all of US and Canada.

WHAT ARE THE GROWING MEDIA & PACKAGE SIZES ? PRO-MIX® Formulation	2.8 cu ft loose	3.8 cu ft comp	55 cu ft comp **	60 cu ft loose	80 cu ft loose	135 cu ft comp
BX - General Purpose – peat/perlite/vermiculite blend	X	X	X		X	X
HP - High Porosity - peat/perlite blend	X	X	X		X	X
LP15 - Multipurpose - peat/perlite blend	X	X	X		X	X
BRK - General Purpose - peat/bark blend	X			X		
BRK20 - General Purpose - peat/bark blend	X			X		
FPX - Plug and Germination - peat/perlite blend	X	X				
PGX - Plug and Germination - peat/vermiculite blend	X	X				

** Available in Western region only

HOW DO I KNOW WHAT PRODUCT IS IN THE BAG ?

• All PRO-MIX are packaged in a ‘master label’ with the product formulation identified after the manufacturing date.

Ex. 2011/08/15 103 03:15 ‘HP’

• For 2.8 cu ft loose-fill bags, the production code is found on the front, bottom bar of the bag. For 3.8 cu ft compressed bales, this code is found on the side within the green bar. Bulk compressed and Mini-bulk bags are identified with a production tag under the shrink wrap.

PRECAUTIONARY STATEMENTS

As with all EPA registered biofungicide products, PRO-MIX® Biofungicide™ has ‘Precautionary Statements’ listed on the product label. All persons opening bags and /or filling potting machines must wear long-sleeved shirts, pants, shoes, socks and a dust mask meeting NIOSH standards (N-95, R-95, or P-95). PRO-MIX® Biofungicide™ products can be used with all plants except those bearing fruit at the time of planting. For “non-contained nurseries”, fill pots and containers inside building prior to planting or moving transplants outdoors.

For more information, please refer to product labels or contact the toll free number list below.

GS – 2011-08



Laboratory Analysis. Grower Tools. Educational Support.

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