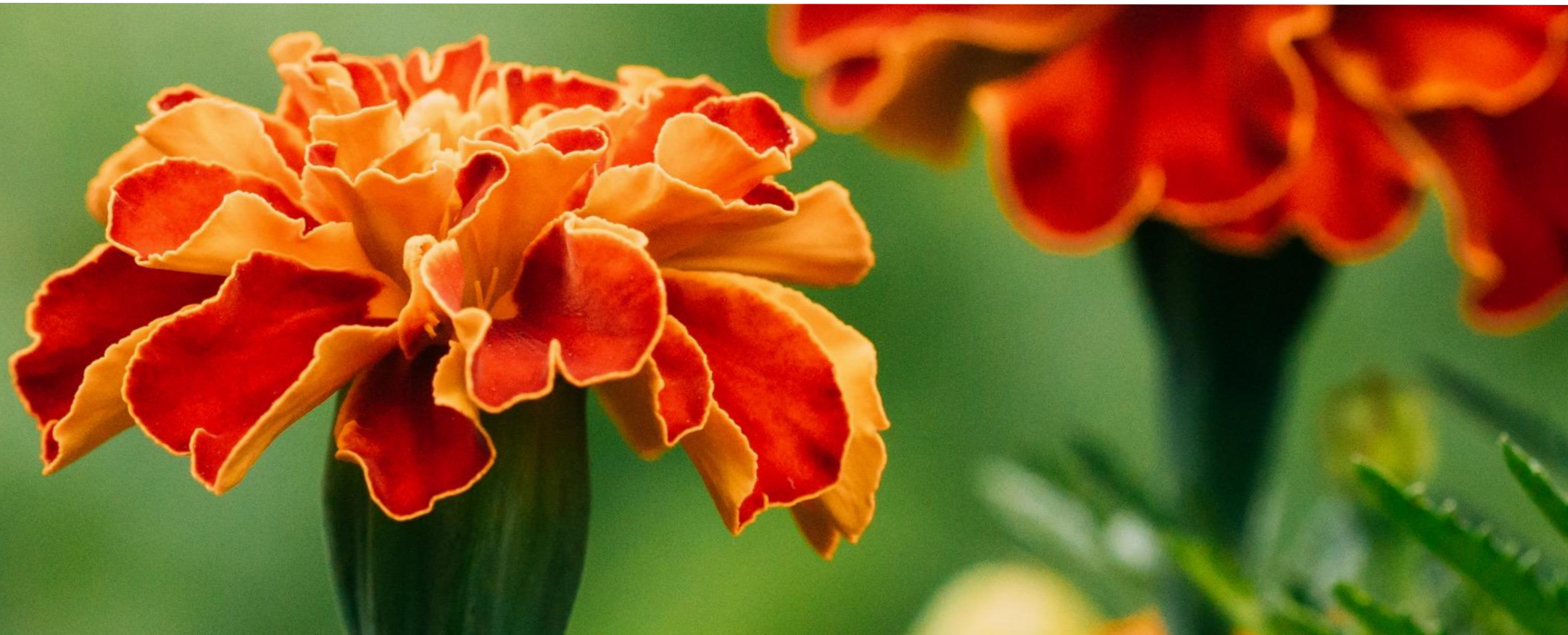




# BIOPHYTER

Microbes with a Mission



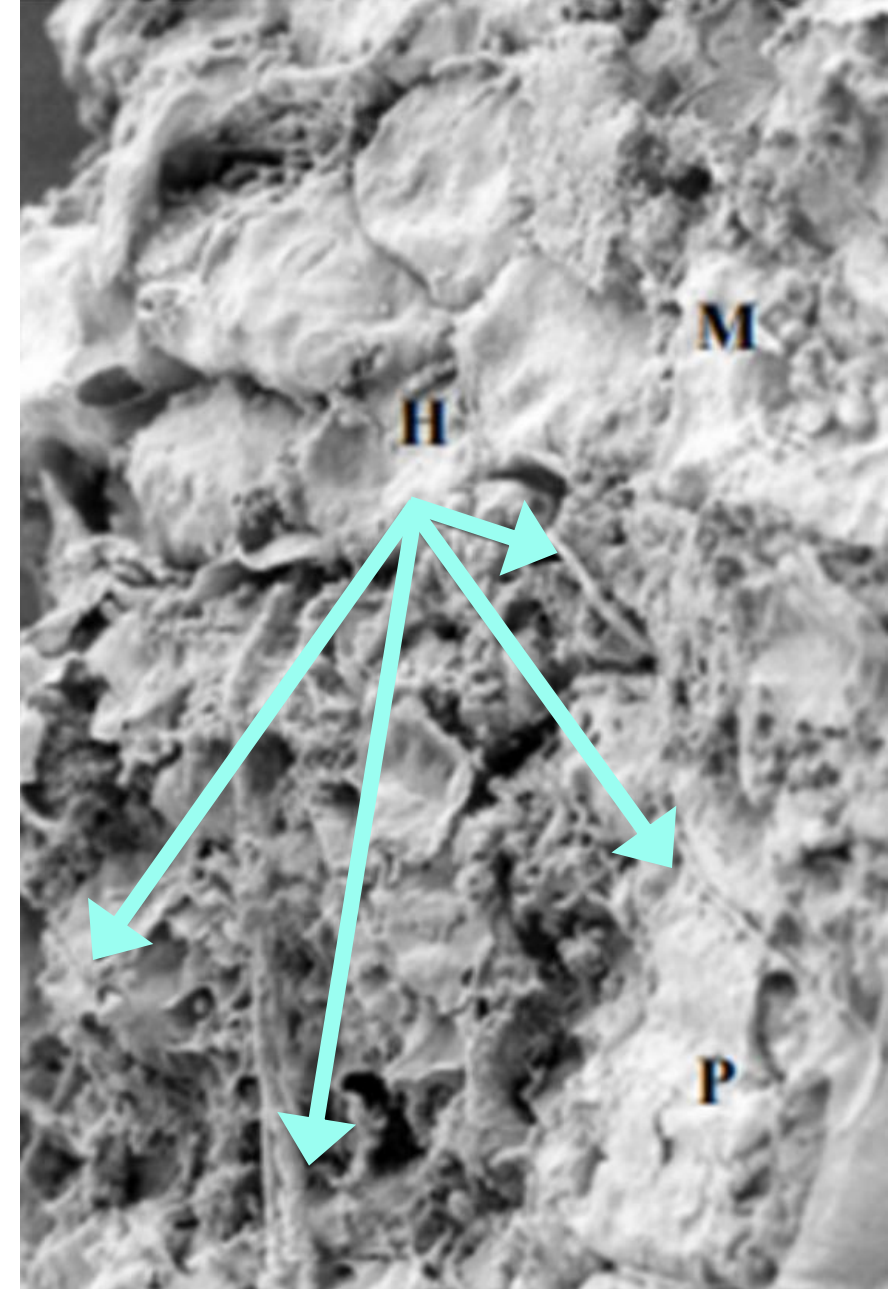


## MODE OF ACTION

*Beauveria bassiana* (*Bb*) is an **endophyte** that is absorbed through the rhizosphere and internally colonizes within vascular tissue and intercellular spaces. Once established, *Bb* mimics plant hormone function by releasing metabolites.

## WHAT IS AN EDOPHYTE?

An internal non-pathogenic microbe that colonizes within plants to support plant functions.



Griffin, MR 2007.  
*Beauveria bassiana*,  
A Cotton Endophyte With Biocontrol  
Activity Against Seedling Disease







# MICROBES WITH A MISSION

Faster Germination

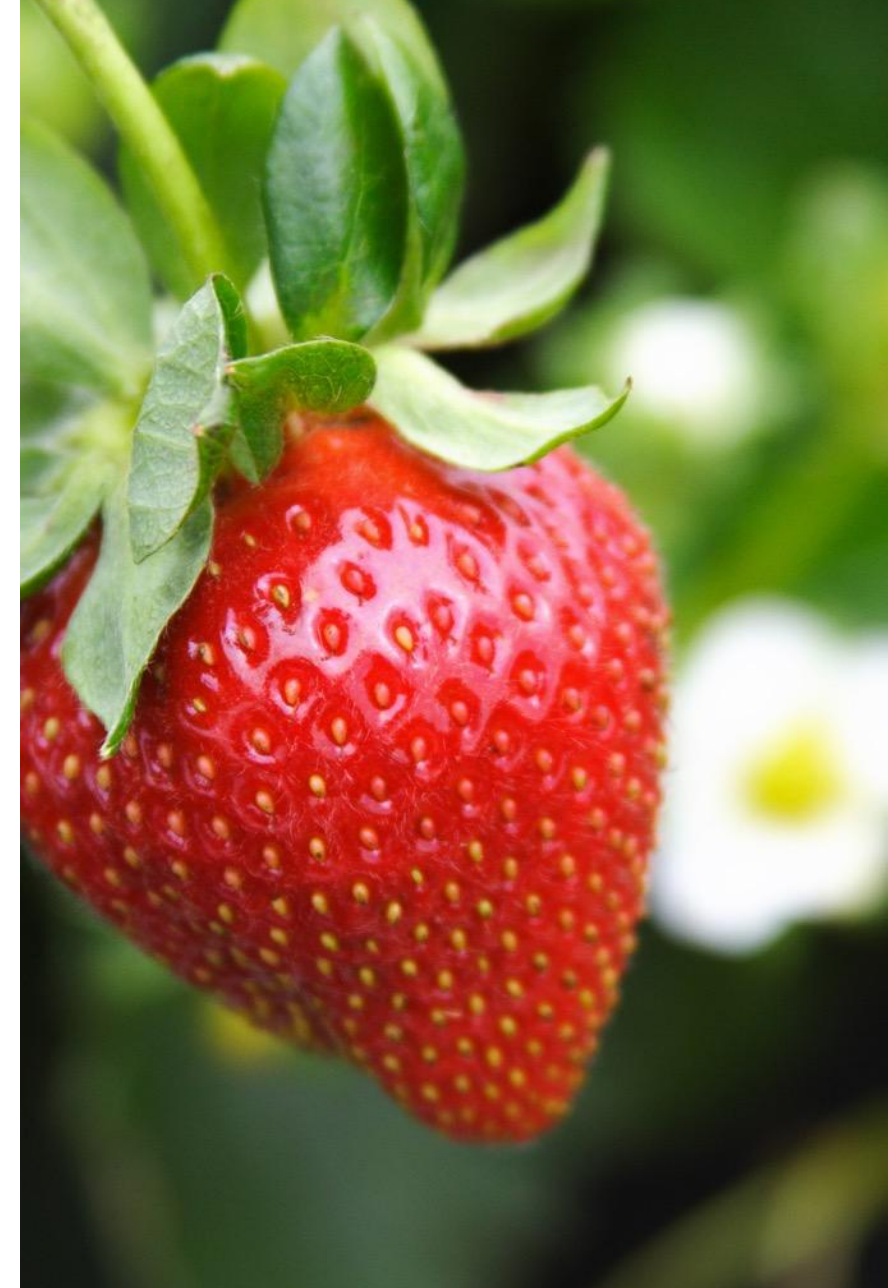
Optimizes Plant Vigor

Improves Nutrient  
Distribution

2-Year Shelf Life

For use in drip  
irrigation, plant dips,  
soil drench,  
hydroponics, and foliar  
applications.

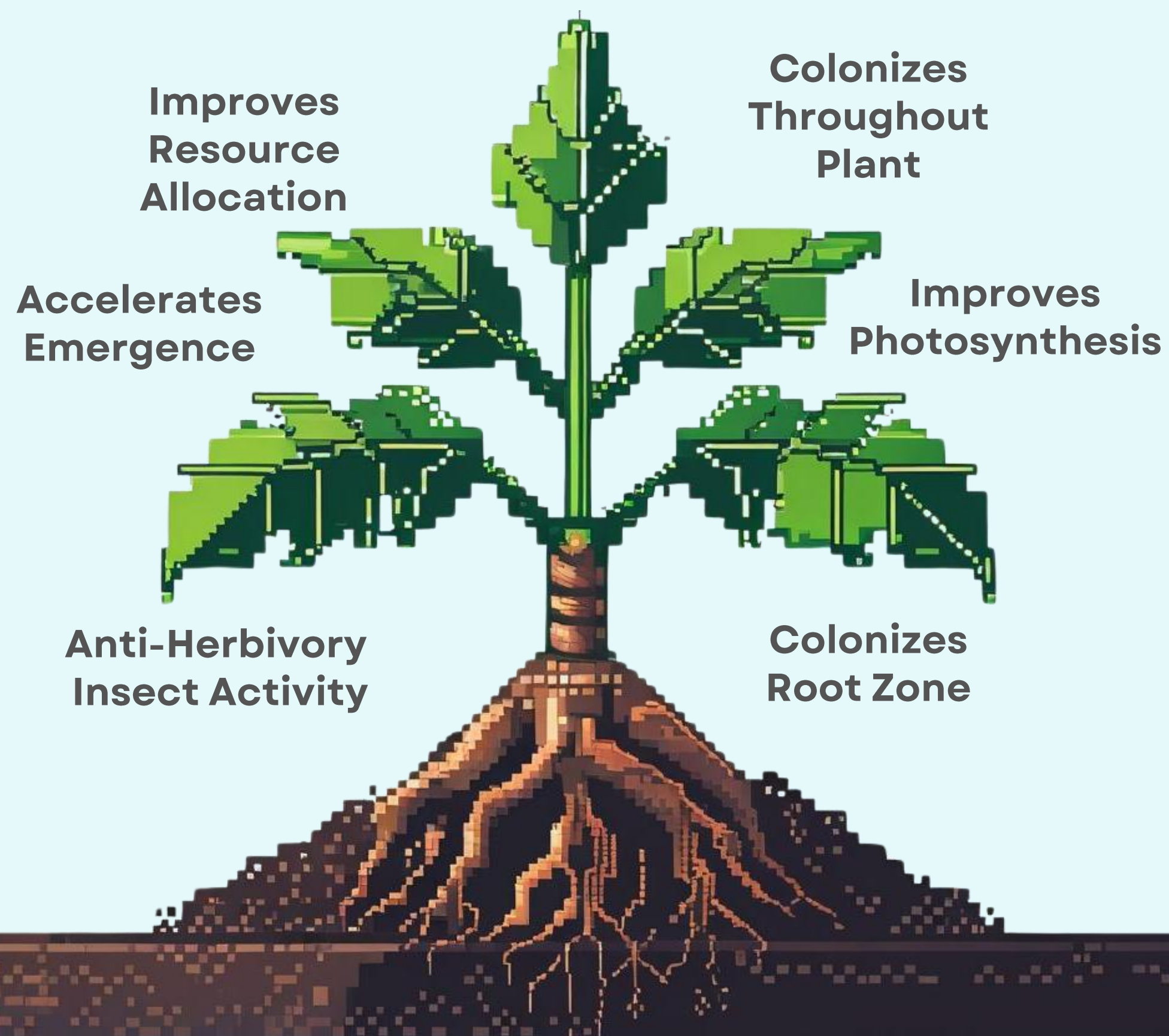
1 fl. oz. per acre





BioPhyter supports plant performance and vitality, minimizes abiotic and biotic stressors, and complements pest control solutions.

# ROOT TO APEX ACTIVITY





BIOPHYTER

# SUPPORTING IPM



## Improves Resource Allocation

*By internally colonizing plant tissues, Beauveria bassiana reduces the energy plants expend on defense production, freeing up resources for growth and yield.*

## Accelerates Emergence

*Seed and root colonization enhances early root development, leading to faster and more uniform seedling emergence.*

## Anti-Herbivory Insect Activity

*Through endophytic colonization and production of metabolites, this strain of Beauveria bassiana deters feeding and reduces survival of root and foliar pests.*

## Colonizes Through Plant

*This endophytic Beauveria bassiana strain colonizes from root to apex, creating an internal distribution that supports plant functions.*

## Improves Photosynthesis

*By reducing pest and stress-related damage and enhancing antioxidant activity, plants maintain fuller canopies and more efficient photosynthesis.*

## Colonizes Root Zone

*Rapid establishment in the root creates a prolific microbial environment that enhances root growth.*





# COMPARING B. BASSIANA

Feature	BIOPHYTER	Standard <i>B. bassiana</i>
On-contact activity ONLY	—	+
Endophytic colonization	+	—
Long-lasting internal presence	+	—
Integrates with soil health programs	+	—
Extended application window	+	—





# APPLICATION METHODS



**Drip  
Irrigation**



**Plant  
Dips**



**Soil  
Drench**



**Hydroponics**



**Foliar  
Applications**



**Seed  
Treatment**





BIOPHYTER

# PROPAGATOR TRIAL

*Noticeable plant  
growth after only  
two applications!*



**Crop**

Magnolia

'D.D. Blanchard'

**Trial Location**

Apopka, FL

**Rate**

1 fl. oz./acre

**Application**

**Timing**

1x Weekly







# PROPAGATOR TRIAL

*Noticeable plant growth after only two applications!*



**Crop**

Banana

'Dwarf Cavendish'

**Trial Location**

Apopka, FL

**Rate**

1 fl. oz./acre

**Application**

**Timing**

1x Weekly







BIOPHYTER

# PROPAGATOR TRIAL

*Noticeable plant growth after only two applications!*



Crop

*Anthurium*

'Cobra'

Trial Location

Apopka, FL

Rate

1 fl. oz./acre

Application

Timing

1x Weekly







BIOPHYTER

# CANNABIS TRIAL

*Grower reported less  
insect damage with  
better growth and color  
on treated plants*



Crop  
Cannabis

Trial Location  
Denver, CO

Rate  
1 fl. oz./  
100 gallons of  
nutrient solution

Application  
Timing  
1x Weekly



 **BioSafe**  
Systems





# LEVEL UP with BioPhyter + LIVENTIA™

Level up your IPM program with **BioPhyter** and **LIVENTIA™** microbes to maximize inputs. Together, build a soil-to-apex super-highway, maximizing nutrient movement from the root zone throughout the plant.







## SELECT YOUR COMPANION

1

### LIVENTIA SOS

#### Hydroponics and Leafy Greens

Enhances nutrient availability + root health

At transplant

2

### LIVENTIA SOIL PRO

#### Tree and Nursery Crops

Improves plant stress tolerance and the soil microbiome

At planting through finish

3

### LIVENTIA SSB

#### Indoor-Grown Crops

Cycles nutrients and boosts absorption

All stages of plant development

### BioPhyter

A systemic endophytic fungus that colonizes inside plants, improving nutrient use and boosting overall plant functions.

