



*Promotes Foliar Resilience
Powered by Microbes & Botanicals*

Client Information Brochure

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Product Overview

BioShield MAX™ is a concentrated, dry foliar probiotic formulated to support plant health and enhance surface-level resilience. Designed for easy mixing and proactive use, each 100 g pouch delivers over 2 trillion CFU per acre from a proprietary blend of beneficial microbes.

Unlike soil inoculants that act slowly, BioShield MAX™ works directly on the leaf surface—supporting a balanced microbial environment known as the phyllosphere. Its high microbial count helps promote a resilient microbial community that contributes to leaf surface integrity under sun, wind, and rain.

A blend of organic carriers—including molasses, seaweed extract, and yucca powder—supports microbial activation and even leaf coverage. Ideal for both organic and conventional growers, BioShield MAX™ is a natural choice for season-long crop support.

Formulation Summary

BioShield MAX contains a proprietary blend of beneficial microbial strains and organic nutrient carriers designed to support foliar health and surface-level resilience.

- **MicroShield™ Active Microbial Blend**

A selected combination of spore-forming and lactic acid bacteria chosen for their ability to establish on leaf surfaces, contribute to biofilm development, and promote a resilient foliar microbial community.

- **NutriCarrier™ Matrix**

A synergistic mix of organic-compatible carriers and plant-derived enhancers, including natural sugars, seaweed extract, humic substances, and botanical wetting agents, designed to support microbial activation, leaf adhesion, and plant compatibility.

Each 100 g pouch delivers over 10 trillion CFU, with a recommended application rate of 1-2 trillion CFU per acre.

How it Works

BioShield MAX™ is a dry, water-dispersible foliar spray that helps support plant vitality and condition leaf surfaces under real-world growing conditions.

It contains a carefully balanced blend of beneficial microbes that colonize plant leaves and help maintain a healthy, stable microbial presence.






Each 100 g pouch delivers over 10 trillion live microbes, formulated with organically certified, natural ingredients—including plant sugars, minerals, and botanical extracts—that improve leaf coverage, promote adhesion, and support microbial activity.

Used regularly, BioShield MAX™ supports foliar environments that favor beneficial microbes and maintain microbial balance during periods of environmental stress. It is suitable for both organic and conventional growing systems.

Application Instructions

Mix 10–15 g of BioShield MAX per gallon of clean water. Apply as a foliar spray using standard application equipment during early morning or late afternoon. Avoid applying during high heat, rainfall, or windy conditions. Each 100 g pouch treats up to 5 acres, delivering approximately 1 trillion CFU per acre. Please, follow application instructions below.

Application Schedule – BioShield MAX

CROP STAGE	TIMING	APPLICATION RATE	PURPOSE
 Pre-plant/Seedling	7 - 10 days before or at transplanting	10 - 15 g/gallon (1 gal per 1,000 f ²)	Establish protective microbiome on early foliage
 Vegetative Growth	Every 21- 28 days	20 g/acre	Maintain foliar colonization with beneficial microbes
 Pre-Flowering	10 - 14 days before flowering	20 g/acre	Prepare leaf surface before transition
 Flowering/Fruit Set	Every 14 days	20 g/acre	Protect sensitive tissues. Reinforce microfilm
 Post-Harvest	Once post-harvest	10 - 15 g/gallon (direct spray)	Reset foliar balance

Technical Specifications

- Appearance: Fine beige-tan powder
- Solubility: Water-dispersible
- Mesh Size: 100–200 mesh
- Microbial Count: $\geq 10^{11}$ CFU/g (combined spore and vegetative forms)

Storage and Safety

Store product in a cool, dry place away from direct sunlight. Keep sealed until use. Shelf life is 12–18 months.

Avoid inhalation of dust. Use a mask and gloves during handling. Not for human or animal consumption. Wash hands after use. Keep out of reach of children and pets. Dispose of packaging according to local regulations.