



Serenade® ASO Biological Fungicide

FRAC Group 44 Fungicide

Serenade® ASO biological fungicide is a versatile tool designed to provide effective disease protection. Serenade® ASO protects against the effects of fungal and bacterial diseases in the soil and foliage.

/// BENEFITS

Serenade® ASO is part of Bayer's biological portfolio that gives growers more options in their integrated disease management program.

- **Effective Protection**
Fights fungal and bacterial diseases and can be an effective addition to an integrated disease management program.
- **Resistance Management**
Uses multiple sites of action to target disease, providing control and reducing the likelihood of resistance development.
- **Flexible Application**
Four-hour re-entry interval and a zero-day pre-harvest interval make Serenade ASO an excellent tool for late-season disease problems, right up to and including the day of harvest.
- **Exempt from Maximum Residue Level (MRL)**
Exempt from the requirements of residue tolerance for export to global markets.
- **Integrated Management Tool**
Compatible with registered products including copper, sulfur, micronutrients, insecticides and fungicides.

/// PROVEN PERFORMANCE

Serenade® ASO is composed of effective biological chemistry and spores of *Bacillus subtilis* QST 713, which is a beneficial bacterium colonizing the roots and producing biological chemistry. The colonization and biological chemistry provide different benefits important for healthy, high-yielding plants.

- **Pathogen Protection**
Lipopeptides destroy fungi on contact, while other compounds attack bacteria.
- **Defense Activation**
Plants respond to natural chemistry by preparing to repel pathogens.
- **Stress Reduction**
Serenade® ASO stimulates the plant to help tolerate stressors like drought and heat.
- **Stimulates Early-Season Root Development**
Allows for greater nutrient uptake and protection from adverse weather conditions.
- **Nutrient Availability**
Serenade® ASO solubilizes key nutrients in the soil to enhance uptake, leading to healthy, high-quality produce with an increased shelf life.

/// SERENADE ASO® FUNGICIDE QUICK FACTS

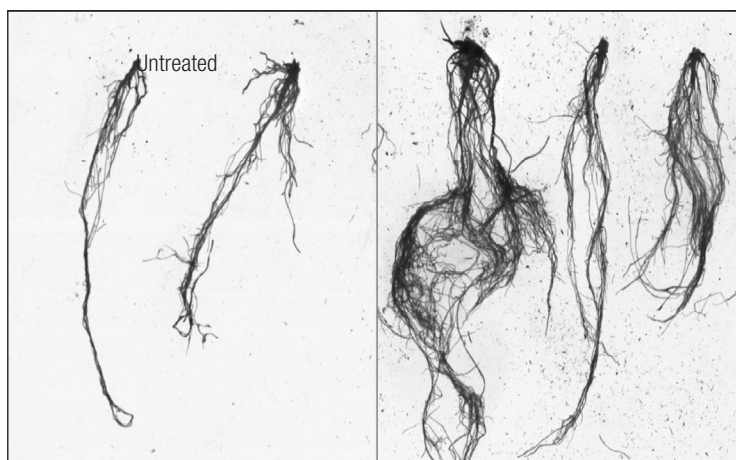
- **Active Ingredient:** *Bacillus subtilis* QST 713
- **Signal Word:** Caution
- **Use Rate:** 0.5 to 4 qt./A, depending on crop, disease and whether tank-mixed
- **REI:** 4
- **PHI:** 0

Key Crops	Key Diseases
• Citrus • Cucurbits • Leafy Vegetables • Onions • Pome Fruits • Potatoes • Stone Fruits • Strawberries • Tomatoes • Tree Nuts	• Alternaria Leaf Spot • Bacterial Spot • Black Dot • Botrytis • Brown Rot • Early Blight • Fire Blight • Fusarium • Lettuce Drop • Phytophthora • Powdery Mildew • Rhizoctonia Solani • Sclerotinia • Sour Rot • Target Spot



Better Tomato Root Development with Serenade® ASO Biological Fungicide

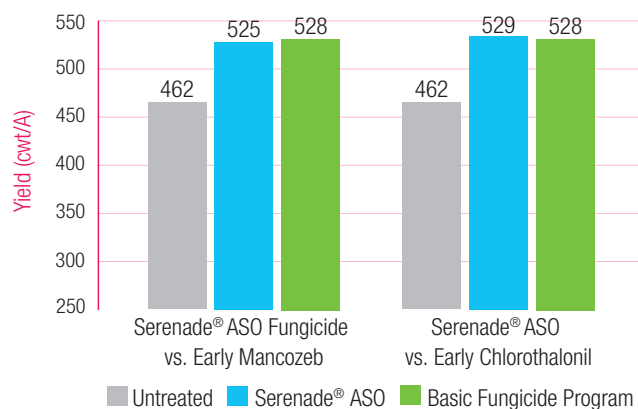
Serenade ASO



Serenade® ASO Biological Fungicide vegetable application studies. Saman Mahmood, Debbie Marcus
BLX – West Sacramento, June 16, 2017. Tomato growth analysis using WinRhizo at 25 days after planting.



Steady Disease Control and Yield Potential with Serenade® ASO on Potatoes



North Dakota State University, N. Gudmestad
High Early Blight Pressure = *Alternaria solani*

Harvest 10/17/16

IMPORTANT: This bulletin is not intended to provide adequate information for use of these products. Read the label before using these products. Observe all label directions and precautions while using these products.

For more information, visit www.CropScience.Bayer.us.



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