Serifel®
Biofungicide

Serifel® Biofungicide* for Managing Plant Diseases

What are Biologicals:

Biologicals are microorganisms and naturally occurring substances that control pests. Growers use biologicals as a fundamental part of crop protection programs for a variety of reasons such as:

- Chemical management
- New resistance strategies
- Prolonged flexibility and performance reliability

Biological crop protection offers highly targeted solutions and advanced resistant management strategies. New innovation has driven market development, and increased fungal protection on a larger scale. BASF's Serifel biofungicide has a unique component known as *Bacillus amyloliquefaciens MBI600* which covers a broad spectrum of disease control by setting the standard of purity and performance reliability.

Winning Science
Winning Solutions

What is Bacillus Amyloliquefaciens:

Bacillus amyloliquefaciens is a bacterium containing active ingredients used to suppress root and foliar diseases caused by fungi. The active ingredient is a spore-forming bacterium that colonizes the developing root system in plants. *Bacillus amyloliquefaciens* reduces foliar fungal pathogens by reducing disease development. Serifel biofungicide manages disease organisms such as:

- Alternaria
- Botrytis
- Fusarium
- Rhizoctonia
- Powdery Mildew

*Not for sale in California.

150 years

BASF
We create chemistry

Technical Information Bulletin

Serifel® Biofungicide

Serifel biofungicide is a biological fungicide that exhibits broad spectrum disease control and a novel mode of action.

- When integrated with a disease management system Serifel biofungicide provides unique solutions to address challenges in the food production value chain
- Serifel biofungicide is based on the *Bacillus amyloliquefaciens (MBI600)* strain covering a broad spectrum of disease control that sets the standard for quality purity and performance reliability
- The positive toxicological and environmental profile making it a flexible option for disease control
- Suppresses foliar diseases
- Protects root system up front to optimize growth
- Protects leaf canopy
- Promotes healthier soil

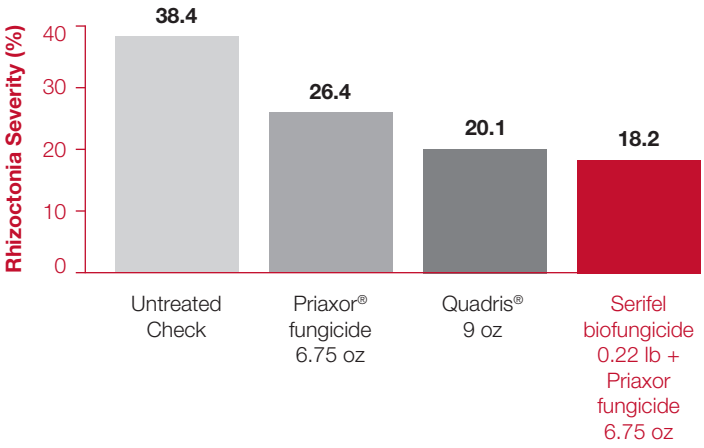
Root:

- Sprout development can only be successful if roots are healthy. Serifel biofungicide can promote healthy roots which can benefit the entire plant.

Foliar:

- During bulking phase any loss of foliage will decrease photosynthesis. Adding Serifel biofungicide to the fungicide program controls foliar disease, maximizing bulking rate.
- Serifel biofungicide can be tank mixed or used in rotation with hard chemistries

Serifel Biofungicide In-Furrow Use in Potatoes



7-30-14 (76 DAP). 2014 Miller Research – Rupert, ID. Var = 'Russet Burbank'. Trial ID: DEV-F-2014-US-KX1-A-02.0-US-UID-SW2. Applications made in-furrow at planting on May 15.

Anticipated Label Use Recommendations

- Use Rate: 4 to 8 oz
- Maximum Rate / Season: No Maximum
- PHI: 0 Day Preharvest Interval
- REI: 4 hours
- Active Ingredient: *Bacillus amyloliquefaciens*

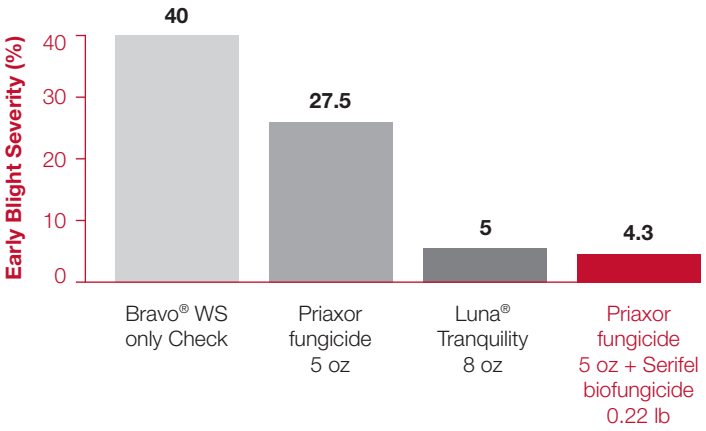
Anticipated Crops on Initial Label

- Fruiting Vegetables
- Cucurbits
- Grapes
- Potatoes
- Strawberries

Target Diseases

- Alternaria
- Botrytris
- Fusarium
- Powdery Mildew
- Rhizoctonia

Serifel Biofungicide Foliar Applications in Potatoes



2014 Mike Hubbard – Bonners Ferry, WA. Var = Ranger. Trial ID: DEV-F-2014-US-KX2-B-02.0-US-UID-SW1. Treatment applications made at A, C & E timings. Row closure (Jun 21) and 4 weeks later (Jul 22). In between Bravo WS 24 oz applied B, D and F timings. Induce 16 oz/100 gal with all treatments except Bravos WS.

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Always read and follow label directions.

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