



Fungicide

THEIA[®]

f u n g i c i d e



Theia[®] fungicide is a new solution from Agbiome that provides robust, broad-spectrum protection against a variety of foliar and soilborne diseases. Through multiple modes of action, Theia fungicide blocks fungal and bacterial pathogens and activates your crops' natural defenses. Theia fungicide was developed entirely through AgBiome's in-house microbial platform and offers excellent control on a variety of diseases.

Active Ingredient
Bacillus subtilis strain AFS032321

Formulation
Dry flowable

Recommended Use Rate
1.5-3 lbs/a

Key Features and Benefits

- High fungicidal and bactericidal activity provides return on investment, fewer SKUs, and peace of mind
- Multiple modes of action for robust broad-spectrum control and low resistance risk
- 4-hour REI and 0-day PHI give harvest flexibility and worker protection
- U.S. residue tolerance exemption and no MRLs fit with food value chain and exports
- Robust formulation with excellent (2 year) shelf life and no special storage requirements
- Compatible with chemicals, adjuvants, and antibiotics for tank mix flexibility
- OMRI listed for use in organic in addition to conventional cropping systems

Key Crops

- Berries & small fruit
- Citrus
- Cucurbits
- Fruiting vegetables
- Grapes
- Onions & garlic
- Pome fruit
- Stone fruit

Target Diseases

- Alternaria
- Bacterial Diseases
- Fire Blight
- Phytophthora
- Powdery Mildew
- Pythium

MODES OF ACTION

Multiple modes of action make Theia® fungicide a broad-spectrum tool for resistance management and IPM with no cross resistance to other fungicides.



Antimicrobial Compounds

Various antifungal and antibacterial metabolites kill plant pathogens by breaking down cell walls and membranes.

Plant Health

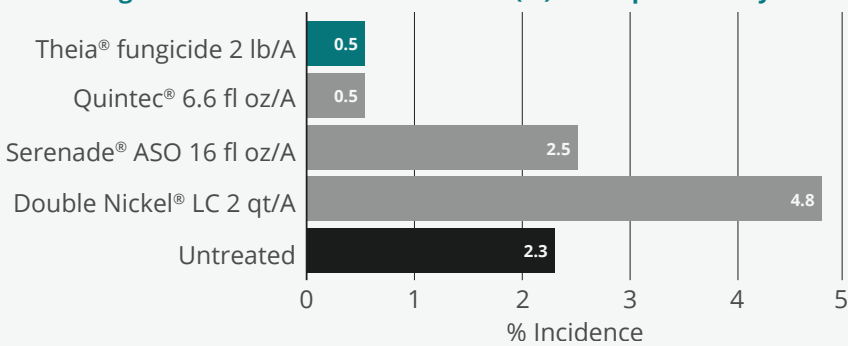
Natural resistance mechanisms (SARs) are activated allowing the plant to defend itself against pathogens.

Competition

Theia® out-competes pathogens for the nutrients and space needed to cause damage by producing protective biofilms and siderophores that claim available iron.

Theia® Fungicide Trial Results - Fungal and Bacterial Disease Control

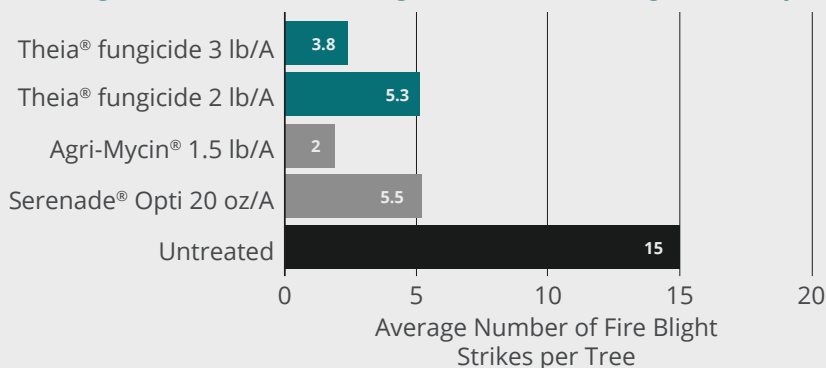
Theia® Fungicide Reduces Cluster Incidence (%) of Grape Powdery Mildew



Theia fungicide was highly effective at preventing powdery mildew in grapes, reducing cluster incidence **comparable** to the powdery mildew specialist, Quintec®, and **superior** to other biological products.

2021 Walnut Grove, CA. "Chardonnay" grape variety. Six applications at 100 GPA on 14-day intervals. All treatments contained a non-ionic surfactant. AgBiome-sponsored trial.

Theia® Fungicide Reduces the Average Number of Fire Blight Strikes per Tree



Theia fungicide performed well under very high bacterial disease pressure, reducing the number of fire blight strikes per apple tree.

2020 Ontario, NY. Three applications at 100 GPA were made at late pink, full bloom, and petal fall. All treatments contained a non-ionic surfactant. AgBiome-sponsored trial.

