GROUP BM02 FUNGICIDE

AgBiome

Fungicide

A Full-Spectrum Approach to Crop Protection

Theia® fungicide 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 crops' natural defenses.

Active Ingredient	Formulation	Recommended Use Rate
Bacillus subtilis strain AFS032321	Dry flowable	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

Target Diseases for Treatment with Theia Fungicide

- Alternaria
- Bacterial Diseases
- Phytophthora
- Powdery Mildew

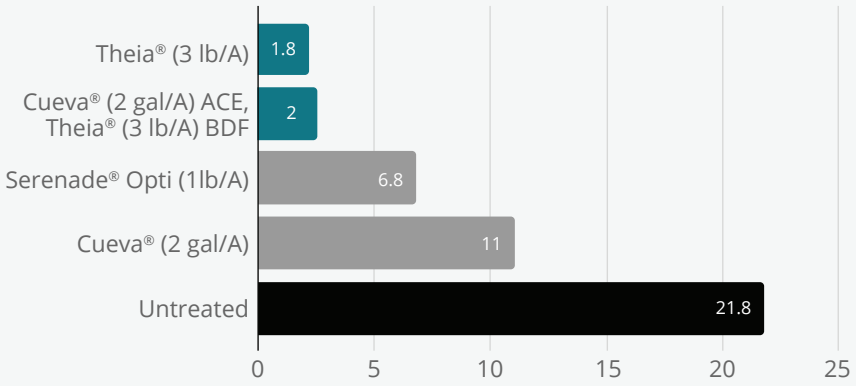
AgBiome

Proof in the Performance

Bacterial Spot in Tomatoes

Bacterial spot can infect tomatoes and other fruiting vegetables, produce symptoms on foliage and fruit, and lead to yield losses up to 66% given favorable conditions. Resistance to copper has been documented in some strains and there are limited options for control[1,2].

Average % Severity of Bacterial Spot in Tomatoes (21 DA-A)



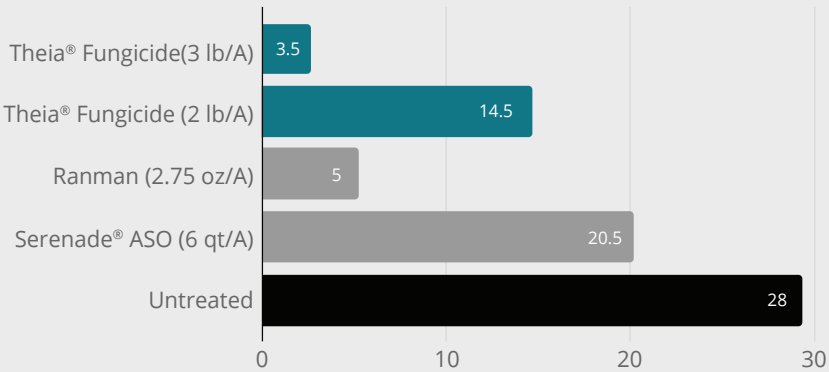
Theia® fungicide alone and rotated with copper (Cueva®) provided better control than Cueva® alone and Serenade® Opti.

2020, Quitman, GA. Six applications at 100 GPA on 7-day intervals. All treatments contained a nonionic surfactant. AgBiome sponsored trial.

Phytophthora capsici in Peppers

Phytophthora capsici can impact all plant parts from the roots to fruit of peppers and cucurbit vegetables and thrives in the wet, humid conditions typical in the southeast. Fungicide resistance has been documented in certain populations, underscoring the importance of using multiple, effective modes of action in spray programs[3].

Average *Phytophthora capsici* Severity - Peppers (49 DA-A)



Theia fungicide provided excellent control of *Phythophthora capsici* in peppers and reduced disease severity better than Serenade ASO.

2020, Quitman, GA. Six foliar applications at 7-10 day intervals. All treatments contained a nonionic surfactant. AgBiome sponsored trial.

Untreated, inoculated with *Phytophthora capsici*

Theia fungicide (3 lb/A), inoculated with *Phytophthora capsici*

2021, Quitman, GA. AgBiome sponsored trial.

[1]Pohronezny K., Volin R.B. The effect of bacterial spot on yield and quality of fresh market tomatoes. HortScience. 1983;18:69–70.
[2]Ritchie, D.F. 2000. Bacterial spot of pepper and tomato. The Plant Health Instructor. DOI: 10.1094/PHI-I-2000-1027-01
[3]Roberts PD, Kucharek, TA. Vegetable diseases caused by *Phythophtora capsici* in Florida. PP-176. 2018.