

Tidal Grow® Spectra

Spectra is a bioactive fungicide, bactericide, and nematocide that also boosts plant vigor.

The active ingredient, chitosan, is a biologically based, naturally occurring, and non-living biopolymer capable of maximizing pathogen and pest control—when formulated properly.



Fight Pathogens Directly

Target pests and pathogens, including nematodes, without harming beneficial soil microbes.



Stimulate Growth & Boost Yield

Support overall crop health and unlock previously inaccessible soil nutrients.



Activate Natural Defense

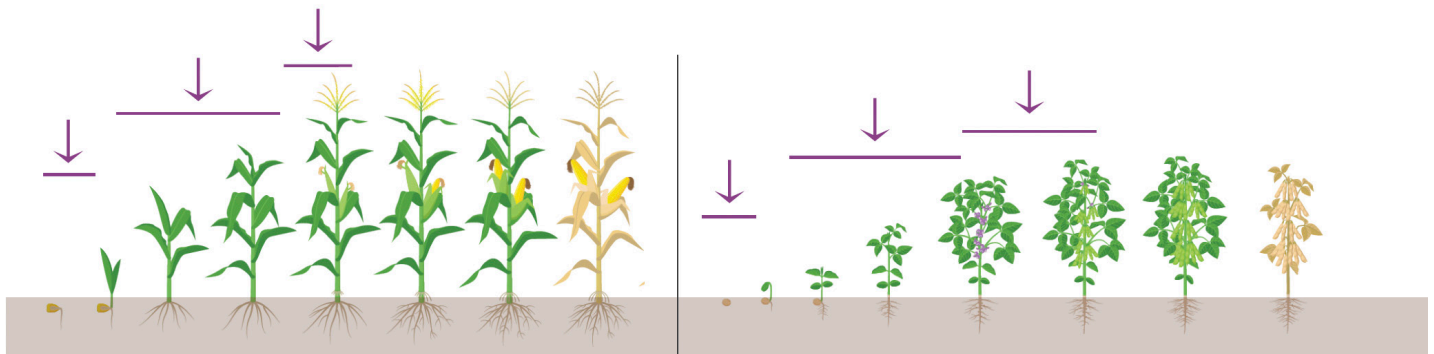
Enhance the crop's natural immune system and fortify against abiotic stressors.

Modes of Action

- Targets parasitic eggs to disrupt life cycle
- Interferes RNA and disrupts membrane of pathogenic microbes

Application Recommendations for Corn & Soybeans

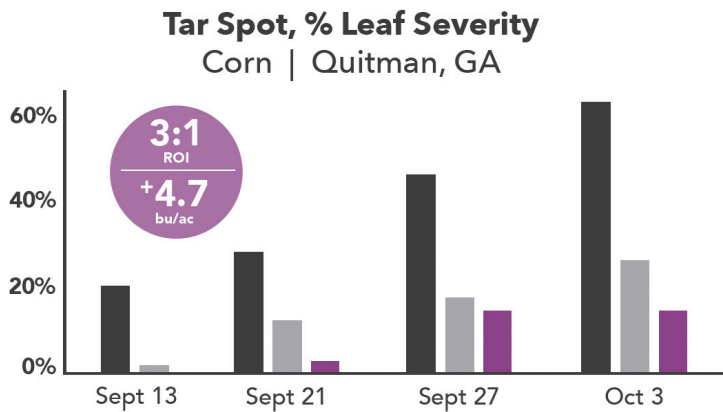
Apply 11-22 fl oz/ac of Spectra one time at mid-season fungicide application or 8-11 fl oz/ac up to three times at/around planting, post emergence, and at mid-season fungicide application.



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Trial Highlight: Combating Tar Spot with Spectra



Decreased Tar Spot Incidence

By keeping Tar Spot incidence pressure to less than 20% before harvest, Spectra improved yield performance by 3%.

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- Leading Fungicide (1x)
- Leading Fungicide (0.5x + 22 fl oz Spectra)

Literature Evidence Supports White Mold Suppression with Chitosan

Recent scientific studies find that chitosan, the active ingredient in Spectra, directly inhibits the fungus *Sclerotinia sclerotiorum* in the lab. It also induces plants' natural immune response, improving crop resistance against the effects of white mold. Growth chamber and greenhouse work was done on carrots (Qing, W.A.N.G. et al, 2015) and rapeseed (Yin, H. et al, 2013) plants affected by the pathogen responsible for soybean white mold.



Image: Stock photo of White Mold in Soybeans.