



# Lumiscend™ Pro Fungicide Technical Sheet



Lumiscend™ Pro Fungicide Seed Treatment is specially formulated to protect against damping-off, seedling blight, as well as seed and root rot caused by *Pythium* spp., *Fusarium* spp., and *Rhizoctonia solani*. Lumiscend Pro includes three active ingredients: ethaboxam, metalaxyl, and inpyrfluxam. Ethaboxam and metalaxyl provide two robust modes of action against *Pythium* spp.,

including metalaxyl- and mefenoxam-resistant strains. Inpyrfluxam is a new active ingredient that protects against *Fusarium* spp., as well as providing industry leading protection from *Rhizoctonia* seed- and soil-borne diseases. Lumiscend Pro delivers robust disease and resistance management while maintaining excellent crop safety and minimizing occupational exposure.

## MULTIPLE MODES OF ACTION AGAINST KEY CORN DISEASES

### Lumiscend™ Pro

FUNGICIDE SEED TREATMENT

Active Ingredient	<i>Rhizoctonia solani</i>	<i>Pythium</i> spp.	<i>Fusarium*</i> spp.
Inpyrfluxam	●		●
Ethaboxam		●	
Metalaxyl		●	

\*pending state registration

### Lumiscend™ Pro Fungicide Seed Treatment Key Attributes:

- New active ingredient, inpyrfluxam (FRAC Group 7), provides systemic protection against *Rhizoctonia* and *Fusarium* spp.
- Two modes of action for *Pythium*, including ethaboxam for activity against metalaxyl- and mefenoxam resistant *Pythium* spp.
- Specially formulated for use on corn with an excellent seed safety profile
- Favorable environmental profile when used according to the label

### Lumiscend™ Pro Fungicide Seed Treatment Key Benefits:

- Provides state-of-the-art disease protection to growers
- Controls corn damping-off, seedling blight, seed and root rot caused by *Pythium* spp., *Rhizoctonia solani* and *Fusarium* spp.
- An effective mode of action against Metalaxyl resistant *Pythium*.
- Strong contributor to resistance management

Rhizoctonia, Pythium, and Fusarium are the most common causes of seedling disease, resulting in poor emergence, low stand counts, and poor vigor. These soil-borne pathogens can cause seed rot, seedling rot, discolored seedlings, stunting, and post or pre-emergence damping off. Soil-borne pathogens can overwinter in crop residue and grow when optimum environmental conditions are met.

## Rhizoctonia:

*Rhizoctonia* attacks all parts of the corn seedling that are below ground including the seed, mesocotyl, and developing roots. Rainfall followed by cool then warm, humid conditions are most favorable for infection. Infection is not limited by

a particular soil temperature or moisture. Aerated soil enhances infection leading to increased crown & brace root rot on slopes & soil with higher sand content.



Corn field trial 14 days after planting inoculated with *Rhizoctonia* Lumiscend™ Pro fungicide seed treatment compared to no fungicide seed treatment



*Rhizoctonia* damage on corn



Lumiscend Pro, inoculated with *Rhizoctonia solani*



Not treated, inoculated with *Rhizoctonia solani*

## Pythium:

In corn, *Pythium* can cause seed rot prior to germination or infect young seedlings. Low temperatures and wet soil conditions tend to favor growth of most *Pythium* species. Thus, earlier planting dates often increase the risk of corn crops to seedling blight and damping-off caused by *Pythium*. Protecting seeds and seedlings with seed

treatments is a cornerstone to management of *Pythium*-related disease. Resistance in *Pythium* is well documented and of growing concern. Seed treatments with multiple modes of *Pythium* control, such as those found in Lumiscend™ Pro fungicide seed treatment, are robust tools for management.



Pythium damage



Lumiscend Pro, inoculated with *Pythium irregularare*



Not Treated, inoculated with *Pythium irregularare*

## Fusarium:

Corn seedlings and developing root systems are most prone to *Fusarium* infection and can be promoted by plant stress from weather or herbicide damage. Seedling rot can lead to stunted plants, damping-off, and may progress as a stalk rot.

Resistance management practices include utilizing multiple modes of action, such as those found in Lumiscend Pro fungicide seed treatment, and foliar sprays to delay the onset and spread of resistant *Fusarium* strains.



Corn field trial 14 days after planting inoculated with *Fusarium oxysporum* compared to no fungicide seed treatment

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