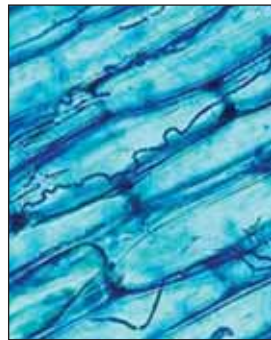


# WHAT ARE **ENDOPHYTES** - WHY ARE THEY IMPORTANT?

## Endophytes & Jonathan Green Grass Seed Mixtures Make A Difference

While living off its grass plant host, endophytes produce defensive chemicals - alkaloids - that are toxic to certain insects. One effect of these toxic alkaloids is that the plants taste bad. This causes insects to spend more time moving and less time feeding, thus making the insects more vulnerable to predators and pathogens. Newly hatched larvae and nymph's also are more prone to starve in endophytic lawns. Additionally, endophyte-infected plants produce lower amounts of aromatic compounds that are known to attract insect pests. In other words, in addition to tasting bad to the bad bugs, endophytes may actually “hide” their host from certain insect enemies. Seeding endophyte grass seed mixtures is a key component to any “organic” lawn. It helps reduce the need for pesticides, allowing you to “Go-Green.”

Many Jonathan Green grass seed mixtures contain endophytic, naturally insect resistant grasses. Look for this oval on my Black Beauty, Black Beauty Ultra, Color My Lawn Green, Full Sun, Sun & Shade, Dense Shade, Shady Nooks, Fall Magic, Heavy Traffic, Drought Tough and Green Patch mixtures.



Endophytes  
magnified 1000x.

