

# Lumialza™

## NEMATICIDE SEED TREATMENT

Lumialza™ nematicide seed treatment is a biological nematicide that shields corn roots from harmful nematodes for over 80 days while cooperating with beneficial organisms to enhance crop vigour and yield potential.

### Lumialza Advantages

- Provides protection from key **yield-robbing nematodes**
- Lumialza provides **over 80 days of protection** by creating a large zone of protection of the root zone
- Enhances plant **vigour and yield potential**

### WHAT IS LUMIALZA?

- Lumialza contains a naturally occurring rhizobacteria, *Bacillus amyloliquefaciens*, that aggressively colonizes roots near the seed and soil surface and throughout the soil profile, resulting in an extensive zone of root protection
- Lumialza provides nematode control by colonizing the roots to form a biological barrier from nematode attack, as well as causing paralysis of juvenile nematodes
- Lumialza provides over 80 days of protection by creating a large zone of protection, encompassing the entire area of root growth including lower, mid and upper root zones

### ENVIRONMENTAL PROFILE

- Lumialza seed treatment is a biological nematicide that has a favourable environmental profile
- It has minimal impact on other beneficial soil microorganisms required for soil health and recycling of soil nutrients and is effective on target nematode species at low use rates



Untreated

Lumialza™

LUMIALZA PROVIDES MORE THAN

**80** DAYS OF PROTECTION

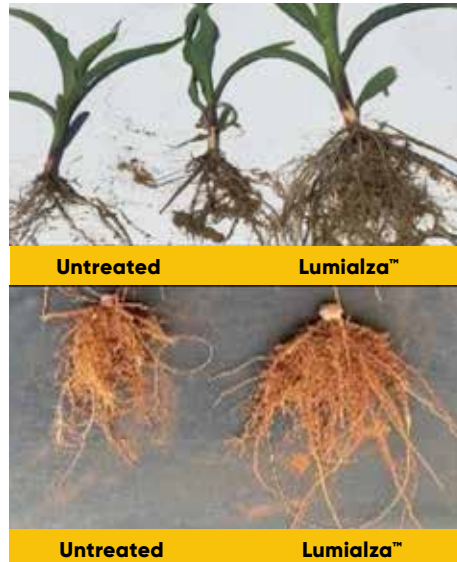


Non-nematicide

Lumialza™

## LUMIALZA PROVIDES EARLY SEASON PROTECTION AGAINST PLANT PARASITIC NEMATODES, RESULTING IN REDUCED FEEDING DAMAGE AND INCREASED ROOT BIOMASS.

- Lumialza grows with the roots to provide protection deep into the soil profile
- This not only provides an extended zone of protection, but also allows prolonged growth benefits extending late into the corn growing cycle
- Lumialza increases root biomass, plant vigour and crop uniformity resulting in improved plant performance



LUMIALZA™  
YIELD  
ADVANTAGE

**3-9** BU/  
AC

IN DEMO TRIALS  
COMPARED TO  
NON-NEMATICIDE  
TREATMENT

Based on 238 trials in the U.S.

## LUMIALZA AGGRESSIVELY COLONIZES THE ROOTS, FORMING A LIVING AND EXPANDING BIOLOGICAL BARRIER THAT PROTECTS ROOTS FROM NEMATODES, PROVIDING AN OPTIMAL ENVIRONMENT FOR ROOT GROWTH.

Lumialza protects against key nematode species by creating a biological barrier to shield the roots, inhibiting contact and paralyzing nematodes. This biological barrier grows with the plant, providing protection for more than 80 days.



## WHAT ARE NEMATODES?

Nematodes are non-segmented round worms that cannot be seen without a microscope. Plant parasitic nematodes live below ground with a life cycle that typically lasts about 30 days.

Plant parasitic nematodes quickly reproduce and infest crops with multiple generations within a single growing season. Nematodes can greatly impact yield and have widespread presence across Canada.

Nematode feeding can result in damage to the root system, leading to loss of nutrient and water uptake. Nematodes also facilitate the transmission of diseases that weaken the plant, making it more susceptible to other diseases.