CanGrow ReSTore®

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Biodegradation Benefits

Amylase BA	Secretes amylase, an enzyme that hydrolyzes starch and breaks it down into smaller sugars
Cellulase BA	Secretes cellulase, an enzyme that breaks down cellulose into its monosaccharide units
Chitinase BA	Secretes chitinase, an enzyme that biodegrades the cell walls of fungi that is rich in chitin
Glucanase BA	Secretes glucanase, an enzyme that breaks down large polysaccharides like glucans
Laccase BA	An enzyme that biodegrades lignin and can oxidize and degrade aromatic pollutants
Protease BA	Secretes protease, an enzymes that break down proteins down into amino acids
Urease BA	Secretes urease, enzyme capable of breaking down urea into ammonia and CO_2
Xylanase BA	Secretes xylanase, an enzyme that breaks down hemicellulose in plant cell walls

Environmental Stress Benefits

Acetoin BA	Secretes acetoin which triggers induced systemic resistance (ISR), mediating stress
IAA PV	Secretes IAA, a common auxin that enables cell division and movement of photosynthates
PAL BA	Secretes PAL, a key enzyme that supports systemic resistance against abiotic stress

Plant Nutrition Benefits

Phosphorus BA, AB	Able to solubilize and make plant available insoluble forms of phosphate
Potassium PV	Able to solubilize insoluble forms of potassium
Zinc PT	Able to solubilize insoluble forms of zinc
Iron PT	Able to convert insoluble forms of iron into iron-chelating siderophore compounds

Microbial Species	Abbreviation
Bacillus amyloliquefaciens	BA
Pseudomonas taiwanensis	PT
Pseudomonas veronii	PV

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CanGrow ReSTore® - Biological Seed Treatment

A Strong Start for Strong Plants

CanGrow ReSTore® offers many benefits to help provide a quick germination process and quality stand rate. As the seedlings grow, CanGrow ReStore® continues to embrace the fundamental relationship between the plants and soil. The microbes feed off of the sugars that are given off by the young seedlings which helps promote a healthy and vigorous plant.

The addition of CanGrow ReSTore® can result in up to a 30% reduction of commercial P needed. Several strains can also reduce surface tension to free up more organic and inorganic nutrients to make them available to the entire microbial population.

These microbes support:

- Phosphorus solubilization
- Potassium, Iron and other nutrient increased availability
- Production of environmental stress reducing factors such as PAL
- Production of biodegradable enzymes

Application Rate

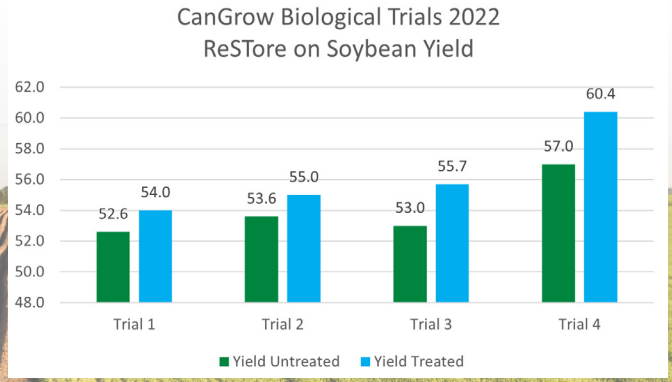
Seed Treatment: 44 - 60 mL (1.5 - 2 oz) per 50 lbs of seed

2022 Ontario Field Trials

Soybean seeds treated with CanGrow ReSTore® showed an average increase of yield by 2.2 bushels/acre, resulting in an average return of investment (ROI) of $35.05/acre.

The treated plants also showed:

- Bigger root systems
- Earlier nodulation
- More prolific nodulation



#BetterBiology

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