



Environmental Stress Benefits

	Support abiotic stress tolerance by degrading	
BL	ACC, a precursor to ethylene formation	

	Secretes acetoin which triggers induced systemic resistance (ISR), mediating stres
ВА	

Auxin	Critical for cell division, plant growth and
BL	enhances plant's tolerance to abiotic stress

Catalase	An antioxidant enzyme that protects plant
BL	cells from abiotic stress damage

Cytokinin	Secretes cytokinin, a biochemical messenge	
АВ	supporting plants under stress	

@ReSTore™

CANGROW

Glucanase

Exopolysaccharides Secretes EPS which forms a biofilm layer on roots mitigating damage from abiotic stress

Gibberellic Acid	Secretes GA which plays a central role in the
AB	plant's response to abiotic stress

	Secretes IAA, a common auxin that enables cell
PP AB	division and movement of photosynthates

	Secretes PAL, a key enzyme that supports	
ВА	systemic resistance against abiotic stress	

Microbial Species	Abbreviation	Microbial Species	Abbreviation
Azospirillum brasilense	AB	Bacillus licheniformis	BL
Bacillus amyloliquefaciens	BA	Pseudomonas patida	PP

Location:

CanGrow Crop Solutions 3971 Old Walnut Rd. Alvinston, ON, NON1A0

Contact Us:

www.cangrow.com solutions@cangrow.com 519-847-5748

Plant Nutrition Benefits

Phosphorus BA, AB		Able to solubilize and make plant available insoluble forms of phosphate
1		pable of fixing atmospheric nitrogen (N ₂) into logically useable and available ammonia
Potassium		Able to solubilize insoluble forms of potassiu
Iron Abl BS, AB iron		e to convert insoluble forms of iron into

Biodegradation Benefits

_	Amylase		Secretes amylase, an enzyme that hydrolyzes
	BA, BL		starch and breaks it down into smaller sugars
Ce			cretes cellulase, an enzyme that breaks down
ВА		cel	lulose into its monosaccharide units
Chitinase BA			Secretes chitinase, an enzyme that biodegrad the cell walls of fungi that is rich in chitin
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BA		down large polysaccharides like glucans		
\	Laccase		An enzyme that biodegrades lignin and can	

Secretes glucanase, an enzyme that breaks

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BA	oxidize and degrade aromatic pollutants

	Secretes protease, an enzymes that break
BA, BL	down proteins down into amino acids

	Secretes urease, enzyme capable of breaking
BA	down urea into ammonia and CO ₂

Xylanase	Secretes xylanase, an enzyme that breaks dowr
ВА	hemicellulose in plant cell walls





ReSTore™- Biological Seed Treatment

Control Restore

A Strong Start for Strong Plants

ReSTore[™] offers many benefits to help provide a quick germination process and quality stand rate. As the seedlings grow, 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 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:Nitrogen fixingPhosphorussolubilization

- Potassium, Iron and other nutrient increased availability
- Production of environmental stress reducing factors such as catalase, EPS, and PAL
- Production of biodegradable enzymes such as cellulase, laccase urease, and xylanase

Application Rate

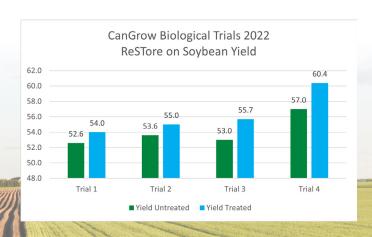
Seed Treatment: 44 - 60 mL (1.5 - 2 oz) per 50 pounds of seed

2022 Ontario Field Trials

Trials on soybean seeds treated with ReSToreTM, at a rate of 50 mL (1.7 oz) per 50 lbs of seed, 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



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