



First Defense

First Defense is a plant growth-promoting rhizobacteria (PGPR) that activates plants induced systemic resistance (ISR) defense/immune system. First Defense stimulates healthier roots and improves nutrient uptake providing both anti-fungal and anti-bacterial activity. It is a broad-spectrum biological fungicide for prevention, control or suppression of many soil-borne diseases.

Modes of Action

First Defense has multiple modes of action in preventing, controlling or suppressing plant diseases.

- Produces broad-spectrum antibiotic lipopeptides that disrupt pathogen cellwall formation and is competitive, fast-colonizing rhizosphere bacterium that occupies the plant's root hairs and leaves
- Prevents the growth and antagonistic effects of soilborne and foliar pathogens
- Stimulates phytohormones, which trigger the plant's systemic resistance to disease (ISR), the defense mechanisms of the plant for prolonged periods of time

Soybean Diseases

Damping-off fungus control

- Rhizoctonia spp.
- Pythium spp.

Fusarium seedling blight control

- Fusarium spp.

Features & Benefits

- Improved control of soil-borne diseases
- Directly attacks pathogens
- Stimulates plants natural defenses
- Promotes plant growth and overall yield
- Forms protective barrier around roots
- No resistance potential

Use & Packaging

Available as a support product, that can be added to our HomeStead Complete planter box offerings. When using with HomeStead Soybeans Complete must be used in conjunction with Metalaxyl ST. Please consult the product label for more details.