

Novozymes Actinovate®

What is Actinovate®?

Streptomyces lydicus:

Saprophytic, rhizosphere colonizing antifungal actinomycetes that produce bioactive secondary metabolites, such as antifungals

Origin:

Isolated from the roots of a linseed plant

Exclusionary

Colonizes the leaf/root and prevents pathogen colonization

Antibiotics

Produces antibiotics that kill disease causing agents

Chitinases

Produces powerful antifungal enzymes

Predatory

Actively seeks out and kills pathogens

Biotic benefits of Actinovate®



Broad spectrum, proven efficacy



Multiple modes of action



Excellent tool for IPM



No/minimal resistance



May be tank mixed or used as rotational partner



Approved for organic use in USA, pending CA



Low REI, safe for workers



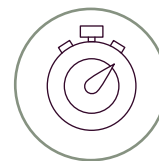
Safe for beneficial insects – pollinators/ bees



Compatibility with many fungicides, insecticides, fertilizers

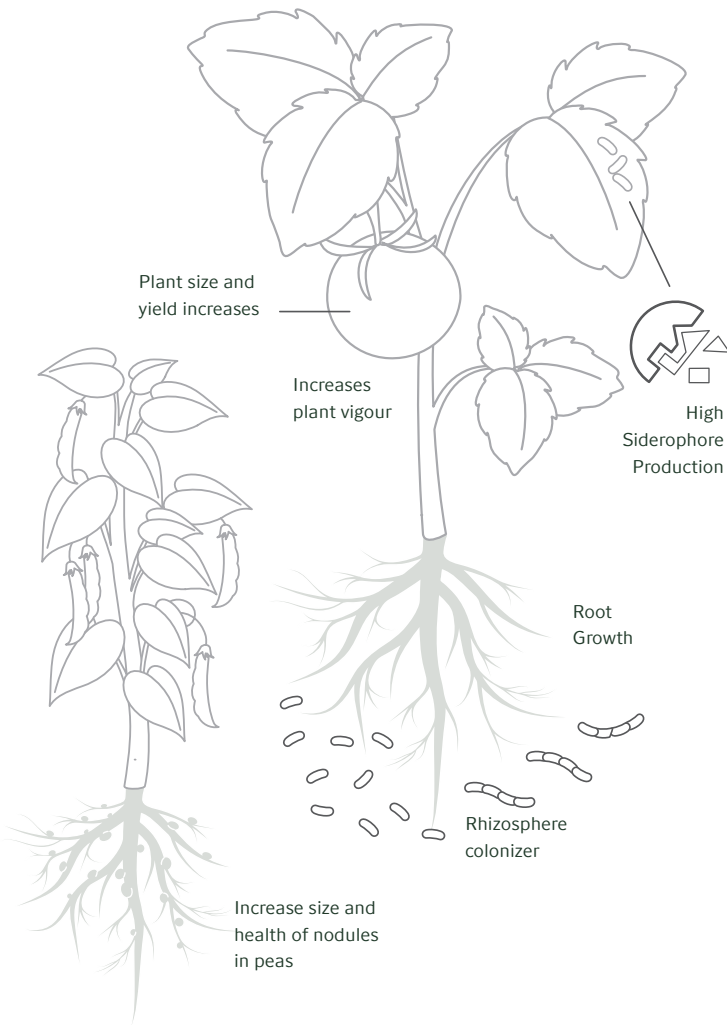


Multiple application methods – drip irrigation, drench, dip, foliar spray, in-furrow, basal directed

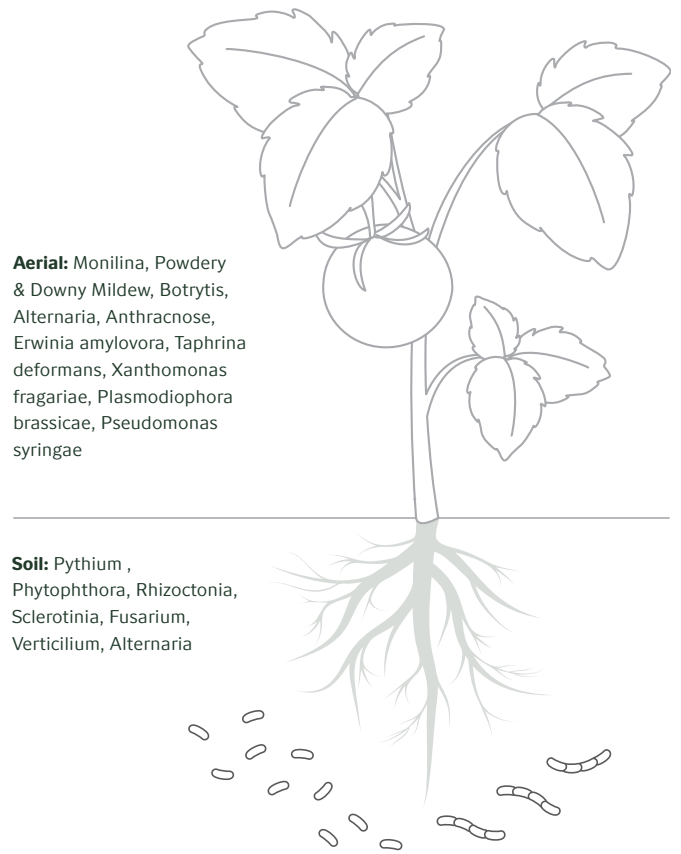


0-Day PHI

Biotic benefits of Actinovate®



Disease Targets of Actinovate®



Actinovate®: 3 formulations

Formulation type	Application	Target pests of the active ingredient	Crops
Actinovate® AG (WP)	Outdoor agriculture	Pythium, Rhizoctonia, Phytophthora, Verticillium and Fusarium. Powdery Mildew, Downy Mildew, Greasy Spot, Botrytis, Sclerotinia, Monilinia, Alternaria, Erwinia and Bacterial Spot	Fruit: Strawberry, blueberry, grape, pome & stone fruit Veggies: Cucurbits, tomato, pepper, potato Ornamentals
Actinovate® SP (WP)	Indoor agriculture, nursery, turf	Powdery mildew, Botrytis, Pythium, Rhizoctonia, Phytophthora, Fusarium	Tomato, pepper
Actinovate® STP	Dry seed coating powder	Fusarium, Rhizoctonia, Pythium, Phytophthora, Aphanomyces, Armillaria, Sclerotinia, Verticillium,	Alfalfa, corn, soybean, sugar beet, sunflower

To learn more visit us at [novozymes.com/bioag](https://www.novozymes.com/bioag)

About Novozymes

Novozymes is the world leader in biological solutions. Together with customers, partners and the global community, we improve industrial performance while preserving the planet's resources and helping build better lives. As the world's largest provider of enzyme and microbial technologies, our bioinnovation enables higher agricultural yields, low-temperature washing, energy-efficient production, renewable fuel and many other benefits that we rely on today and in the future. We call it Rethink Tomorrow.

Novozymes A/S

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