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ACTINOVATE® AG Fact Sheet

Actinovate® AG is a high concentration of patented beneficial bacteria on a 100% water soluble powder. This powerful new product effectively controls and/or suppresses a wide range of soil borne diseases (when applied as a soil drench) and foliar diseases (when applied as a spray). Soil diseases controlled/suppressed include *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia*, Cotton Root Rot and other root decay fungi. Foliar diseases controlled/suppressed include powdery, *Botrytis*, *Alternaria* and others. In fact, when used as a preventative, researchers have seen Actinovate® AG work as well or better than most chemicals.

How it Works

Actinovate® AG contains a high concentration of the microorganism *Streptomyces lydicus* strain WYEC 108. When introduced into the root zone or applied to foliage this microbe colonizes and grows around the structure of the plant. While settling in the foliage or the root's rhizosphere the Actinovate® microbe forms a synergetic relationship, feeding off of the plant's waste materials while secreting beneficial and protective by-products. This combination of the colonization and the protective secretions forms a defensive barrier around the plant which in turn suppresses and controls soil pathogens. *S. lydicus* also has been shown to prey on certain pathogens, disrupting their cell walls and disabling them in the process.

Benefits

- As a foliar spray Actinovate® SP controls/suppresses powdery mildew and *Botrytis*
- As a soil drench Actinovate® SP controls/suppresses *Pythium*, *Rhizoctonia*, *Fusarium*, *Phytophthora*, *Verticillium*, and more

Trials & Research

Streptomyces lydicus WYEC 108 is currently used in products by thousands of turf, agriculture and horticulture professionals around the world. *Streptomyces lydicus* WYEC 108 has been extensively researched by many industry professionals in the lab and in the field. To request both published and unpublished research please contact the Natural Industries corporate office or your local products supplier.

Actinovate® AG is labeled for use on:

- | | |
|-----------------------|---------------------------------|
| ● Leafy Vegetables | ● Cotton and other row crops |
| ● Fruiting Vegetables | ● Citrus |
| ● Fruits and Nuts | ● Mint, Herbs and Spices |
| ● Berries | ● Potatoes and other root crops |
| ● Grapes | ● and many more... |

Other Features

- Can be applied up to and including the day of harvest
- Non-phytotoxic, will not burn plants
- 100% Soluble, does not clog machinery, does not need agitation to keep suspended in solution
- Survives in soil even when plant is not present
- Multiple modes of anti-fungal action
- OMRI certified for organic use

Spray
It For
Foliar
Diseases



Drench
It For
Root
Diseases

Technical Information

Organism (Active Ingredient):

Streptomyces lydicus strain WYEC 108

Patented worldwide

General Description:

Saprophytic rhizosphere colonizing actinomycete

Modes Of Action: Exclusionism, Anti-fungal Metabolites, Parasitism

Soil Diseases Suppressed/Controlled:

Pythium, *Phytophthora*, *Fusarium*, *Rhizoctonia*, *Verticillium*, *Postia*, *Geotrichum*, *Schlerotinia*, and other root decay fungi

Foliar Diseases Suppressed/Controlled:

Powdery Mildew, Downy Mildew, *Botrytis*, *Alternaria* and others

Origin:

Isolated from the roots of a linseed plant

Temperature Tolerance:

Spores of *S. lydicus* WYEC 108 are regularly frozen at very low temperatures for storage. Temperatures above 140⁰ F will sterilize the spores. Germinated spores (which occur, for instance, when spores are added to growing media) survive the same temperature range as long as there is adequate moisture and a food source such as peat, bark or humates available.

PH Tolerance:

S. lydicus can survive a pH range 4.0-10.0. The organism is active between 5.0 and 9.1

Longevity:

The spore shelf life is guaranteed at 12 months. Germinated spores can survive much longer if there is a food source, moisture and minimal microbial competition (such as in bagged potting soil). Storing in refrigerated conditions may extend the shelf life.

Chemical Compatibility:

S. lydicus is compatible with all chemical fungicides and fertilizers. Bactericides at levels above 75 ppm should not be used in conjunction with it.

UV Sensitivity:

The bacterium is not UV sensitive.

By-Products:

Siderophore, chitinase, and several antibiotics

