

# SoilGard<sup>®</sup> 12G

MICROBIAL FUNGICIDE

Prevent disease-causing pathogens with a naturally occurring soil fungus that is antagonistic to plant pathogenic fungi such as *Pythium* and *Rhizoctonia* to aid in control of damping-off and root rot.



## PRODUCT HIGHLIGHTS

Easy-to-use dry granular formulation

Non-harmful to humans, pets, or the environment

Contains a living, naturally occurring soil fungus that prevents soil-borne diseases

Effectively prevents damping-off and root rot pathogens

NOP approved and OMRI Listed<sup>®</sup> to naturally defend crops from disease

Ideal for use in organic production or as part of a conventional IPM program



Always carefully read and follow label instructions.



1.800.250.5024

[www.CertisBio.com](http://www.CertisBio.com)

## HOW IT WORKS

*Gliocladium virens* strain GL-21 is a naturally occurring soil fungus that is antagonistic to plant pathogenic fungi such as *Pythium* and *Rhizoctonia*. SoilGard® contains spores that attack and fight harmful pathogens to prevent fungal diseases in the soil such as those that cause damping off and root rot pathogens that can impact and inhibit early root development in crops.

- When SoilGard is initially applied, it produces gliotoxin which clears the immediate soil of pathogens.
- *G. virens* attacks and prevents future disease by penetrating and consuming contents of pathogenic fungi it contacts.
- The aggressive strain grows quickly and out-competes pathogenic fungi for nutrients and living space in the soil.
- Eventually, SoilGard® 12G occupies so much of the acreage around a plant's root zone that it prevents or delays the reestablishment of the disease-causing fungi.

## HOW TO APPLY

Mix spores in granular form with soil or other growth media a day before or at the same time as seeding, planting, or transplanting. The product can also be diluted with water and applied directly to soil or root area of plants. For best results, store in a cool dry place (preferably refrigerated).

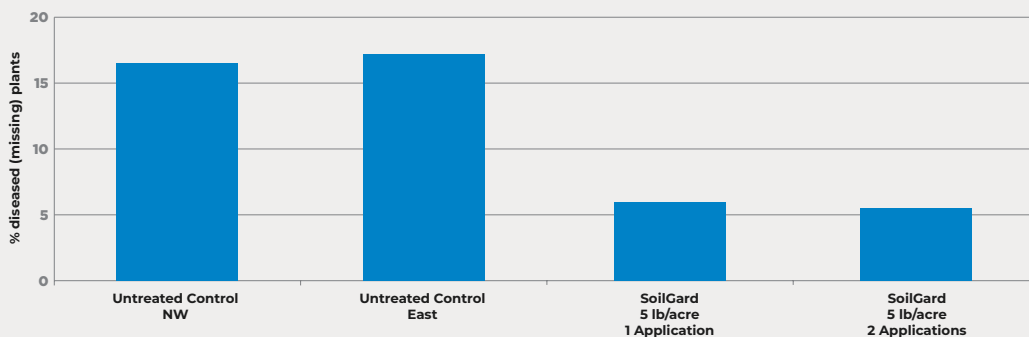
## TIMING

SoilGard® 12G acts as a preventative treatment and will protect non-infected plants, it may not cure already infected plants. Where possible, allow the treated soil or media to incubate for 1 day prior to planting to achieve the best results. Do not use other soil fungicides at the time of incorporation. Later addition of fungicides is acceptable, but usually unnecessary.

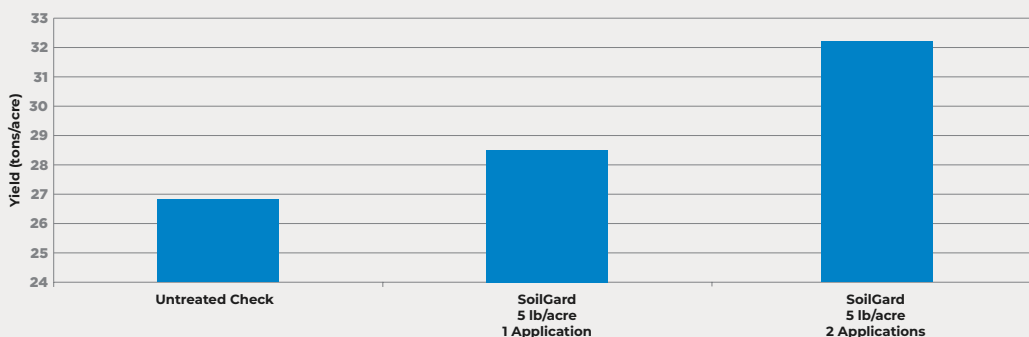
## TRIAL DATA

Field demonstration comparing one and two in-season application timings of SoilGard to control *Rhizoctonia* and other soil-borne pathogens on watermelon (*Citrullus lanatus*).

Imperial Valley Watermelon Trials Westmoreland, CA  
Sergio Cabrera M.S., PCA



\*Second SoilGard application occurred on April 2, after this March 25 evaluation.



### ACTIVE INGREDIENT

*Gliocladium virens* strain GL-21

### KEY DISEASES

(See label for full list)

Fusarium

Pythium

Rhizoctonia

Roots rots

### KEY CROPS

(See label for full list)

Greenhouse

Leafy & Fruiting Vegetables

Melons

Ornamentals

Strawberries

Tobacco

Turf

### APPLICATION RATES

(See label for full list)

#### Open field

- 0.5-2 lbs./100 gal of water before or at transplant
- 2-10 lbs./100 gal of water after transplant or at planting

#### Turf and Ornamental

- 1-1.5 lbs./cubic yard of soil

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