Harrell's
Growing a Better World®

Incept™
Biological fungicide

syngenta®

Incept Biological Fungicide
Technical Bulletin

Volumia™ White Begonia

™

Techno® Heat Dark Blue Lobelia

Incept Biological Fungicide

Incept™ biological fungicide is an additive for soilless mixes that will provide disease protection for plants. Incept is an isolate of *Trichoderma* that will provide prevention and suppression of key soil diseases in ornamental crops when added to any growing mix.

Disease Control

As a commercially derived biological fungicide, Incept will provide a natural biological method to fight diseases.

Incept is labeled for:

- Protection against root diseases such as *Pythium*, *Phytophthora* and *Thielaviopsis*
- Suppression of *Rhizoctonia* root rots and *Fusarium* wilt
- Suppression of certain foliar diseases such as Powdery Mildew, *Botrytis* and bacterial blights

Additionally, Incept has demonstrated induced systemic resistance (ISR) activity against multiple foliar plant diseases.

Peat + Competitive Biological Fungicide | Peat + Incept | Peat + Fungicide Standard | Peat

Suppression of Botrytis blight of begonia by Incept in peat and compost-amended potting mixes

- USDA-ARS, 2004

Photo courtesy of Leona Horst

Horst, L. E., Locke, J., Krause, C. R., McMahon, R. W., Madden, L. V., and Hoitink, H. A. J. 2005. Suppression of Botrytis blight of begonia by Incept in peat and compost-amended potting mixes. Plant Dis. 89:1195-1200.

Use Information

Incept, as an additive for growing mixes, can be used on all crops produced by greenhouse and nursery operations. Incept is compatible with several commonly used fungicides, and is also an effective part of an integrated plant health program to produce high-quality plants. Growers choosing to use Incept in an integrated approach with fungicides should check with their state or local Extension Service for information about compatibility.

As one of the most efficacious *Trichodermas* discovered, Incept is effective in a wide range of environmental and cultural conditions, including a broad range of soil temperatures and soil pH levels during production.

Research

The properties of Incept have been studied around the world for more than 30 years and in more than 100 trials with universities, the U.S. Department of Agriculture, Syngenta and growers.

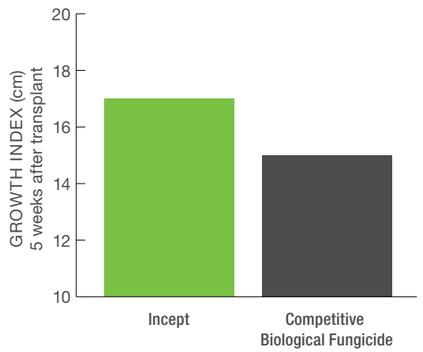
In a Syngenta trial, conducted at a commercial greenhouse in Colorado, poinsettia cuttings were stuck in growing media inoculated with Incept or a competitive biological fungicide. Both rooted cutting treatments were then planted into Fafard® 3B Mix for finished production. Growth data was taken five weeks after transplanting into the finished mix. Inoculation occurred during propagation, and only the benefits of the Incept treatment were carried into the production phase after transplanting.

Incept | Competitive Biological Fungicide

Biological Carry Over on Poinsettias

- Syngenta trial, Colorado, 2011

Photo courtesy of Charlotte Rose



Influence of Biological Fungicides on Poinsettia Growth

- Syngenta trial, Colorado, 2011
- Poinsettia, Euphorbia pulcherrima
- Plant Growth Index = (Height + Average Diameter)/2 (cm)

Colossus™ White with Blotch Pansy

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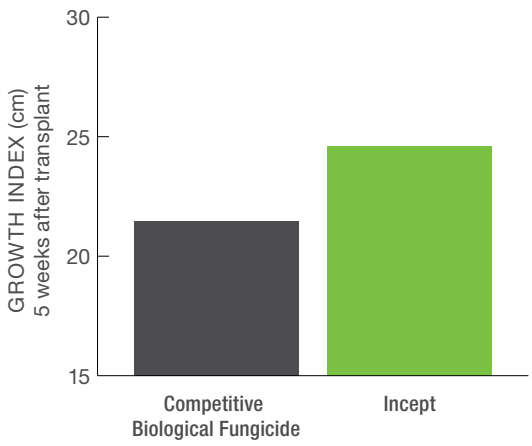
Influence of Biological Fungicides on Growth of Scaevola 'Bombay® Dark Blue'

- Syngenta trial, South Carolina, 2011
- Scaevola 'Bombay Dark Blue'
- Fafard Mix 1P

Photo courtesy of Jessica Sibilio

Competitive Biological Fungicide | Incept



Influence of Biological Fungicides on Scaevola Growth

- Syngenta trial, South Carolina, 2011
- Scaevola 'Bombay Dark Blue'
- Plant Growth Index = (Height + Average Diameter)/2 (cm)

Whispers™ Blue Petunia

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GS 422.40004 (7/12)

SCP 825-00001-A