



SOYBEAN BIOFUNGICIDE
PRODUCT PORTFOLIO

biottrinsic™
by indigo



**SATISFACTION
GUARANTEE**
100% with replant policy.

INDIGO'S BIOLOGICAL SEED TREATMENT

Plant for Performance and Grow with Confidence

SOYBEAN

biotrinsic® X14

biotrinsic® X14 WD is a new a biological seed treatment for the prevention of soilborne fungal diseases in soybeans such as *Fusarium virguliforme* the causal agent for Sudden Death Syndrome (SDS).

FEATURES AND BENEFITS

- **SDS CONTROL WITH NO "HALO EFFECT" WHILE PROVIDING CONSISTENT GERMINATION**
- **NATAMYCIN IS THE ACTIVE INGREDIENT AND PROVIDES A NEW MODE OF ACTION**
 - » New MOA is frac group 48
 - » Helps decrease resistance through integrated pest management prevents soil-borne fungi from attacking plants
- **DEFENSE AGAINST SDS WITHOUT SIGNS OF PLANT STRESS, PHYTOTOXICITY, STUNTING, OR REDUCED STANDS**
- **HELPS INCREASE PLANT VIGOR**
- **PROMOTES ROOT DEVELOPMENT, STAND ESTABLISHMENT, AND HEALTHIER PLANTS RESULTING IN HIGHER YIELD POTENTIAL**

DISEASES TREATED

- » **Fusarium spp**
such as Fusarium virguliforme (SDS)
- » **Rhizoctonia spp**

+4.3
Average bu/ac

Yield Uplift
In comparison to
Acceleron® Standard alone



ILEVO® + Acceleron®
Standard



biotrinsic™ X14 WD
+ Acceleron® Standard
+ Avicta®

Representative observations from 15 field trials across IA, IL, IN, MI, MN, MO, NE, OH, WI *Avicta® was added to the biotrinsic X14 treatment to ensure nematode control and reduce any effects so there would be a true SDS comparison



*Product performance information based on third-party field trials. Results will vary across growers and farm operations. A number of variables may affect agronomic outcomes. Indigo does not make any representations, warranties or guarantees as to any specific results or outcomes. Product may not be available in all areas. Limitations, terms, and conditions apply.



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HOW IT WORKS

- **NEW FRAC GROUP 48 MOA: BINDS TO ERGOSTEROL, A STEROL ONLY PRESENT IN FUNGAL CELL MEMBRANE**
- **BINDS TO ERGOSTEROL, A BUILDING BLOCK IN THE CELL WALLS OF FUNGI. IT'S A STEROL ONLY PRESENT IN FUNGAL CELL MEMBRANES WHEN NATAMYCIN BINDS TO ERGOSTEROL THE TRANSPORT OF NUTRIENTS ACROSS THE CELL WALL IS BLOCKED AND THE CELL STARVES TO DEATH.**
- **BACTERIA, HUMANS, AND PLANTS DON'T HAVE ERGOSTEROL IN THEIR CELL WALLS SO THEY AREN'T AFFECTED AND IT MAKES IT VERY SAFE.**
- **ERGOSTEROL MAINTAINS FUNGAL HOMEOSTASIS, SO BINDING DISRUPTS FUNGAL STABILITY.**
- **NATAMYCIN OCCURS NATURALLY IN ALL SOILS**

COMPETITIVE BENEFIT

- **NEW MOA FOR RESISTANCE MANAGEMENT**
- **ADDITIONAL CONTROL OF FUSARIUM SPP. (NOT ONLY SDS) AND RHIZOCTONIA SEEDLING DISEASES**
- **NO PHYTOTOXICITY**
- **CAN BE ADDED TO VARIOUS CHEMICAL ACTIVES FOR A CUSTOMIZED SEED TREATMENT PLAN OR CAN BE INCORPORATED INTO AN EXISTING INSECTICIDE + FUNGICIDE IN SEED TREATMENT PACKAGE**
- **COMPETITIVE PRICING**

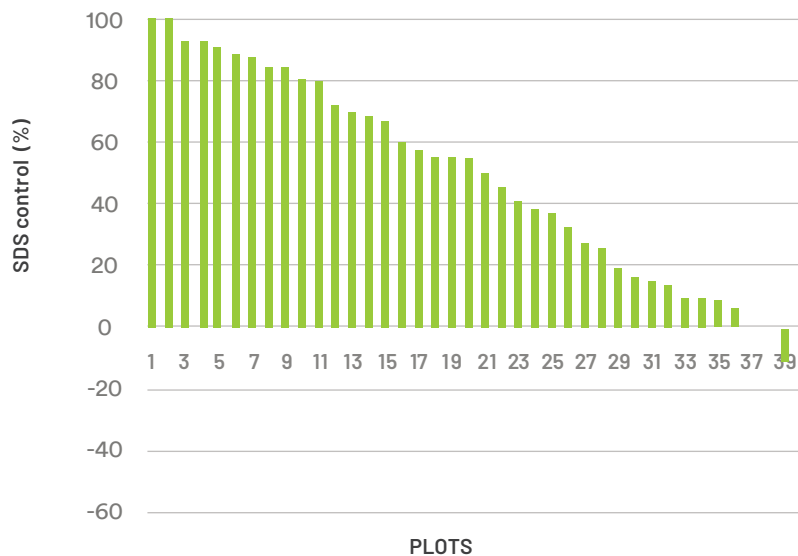


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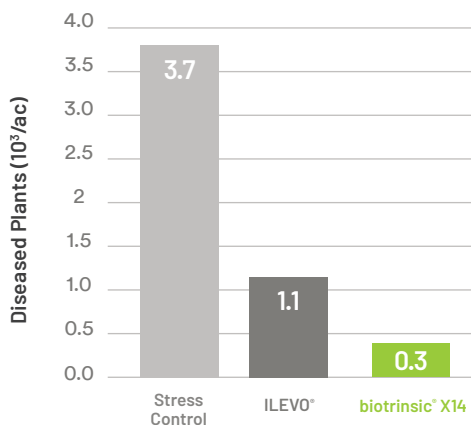
SDS CONTROL - biotrinsic® X14 vs base treatment



- » Trial type: 2019 Strip Trials
- » Crop: Soybean
- » Locations: 10 trials across IA, IL, IN, MI, MN, MO, NE, OH and WI
- » Data Points: 44 large strip plots in 11 locations
- » Stress Characterization: Confirmed SDS incidence, symptomology, and severity
- » 95% win rate

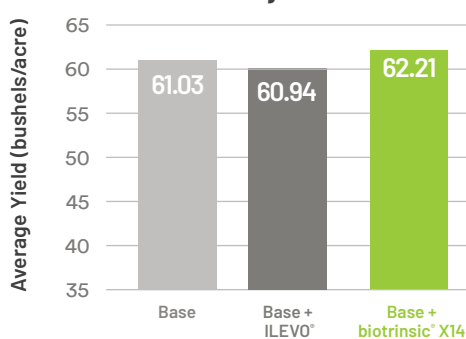


Better Rhizoctonia control



Average of 4 reps in one location in IA, 28 days after planting

2020 Soybean Yield



- » Trial type: 2020
- » Crop: Soybean
- » Locations: 9 trials across 5 locations in Indiana
- » Base package: Fluxapyroxad, Imidacloprid, Metalaxyl, Pyraclostrobin, Thiophanate-methyl



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PRODUCT DETAILS

CAN BE USED ON

- Fields where SDS has been observed or where SDS pressure is known
- Dryland or Irrigated fields
- Crops that are planted in an ideal or late planting window
- All soybean varieties and traits

HOW TO USE IT

- Seed-safe formulation that mixes well with other seed care products and rhizobium
- Dissolves in water for easy slurry mixing
- Minimum shelf life of 2 years
- Low use rate 1.23 fl oz./cwt



Pkg Treats	Pkg Size	Case	Case Treats	Unit Measures
520 units	2.5 gal jug	1x520	520 units	50 lbs

Application Rate: 1.23 fl oz / CWT



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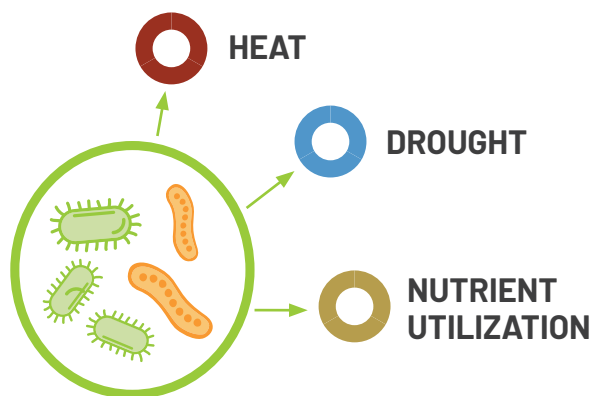
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THE SCIENCE BEHIND THE DIFFERENCE

Microbiomes, or communities of microbes, help maintain internal processes for all living things – Indigo focuses on identifying microbes that have evolved in conjunction with plants over time to optimize plant health and maximize productivity.

At Indigo, we identify which of these microbes are most beneficial to a plant's health through the application of algorithms and machine learning. We further prove their performance at our research laboratories and greenhouses in Boston, Massachusetts and Research Triangle Park, North Carolina along with extensive field trials throughout the United States. Our resulting seed treatment products complement a plant's natural process to improve health and development across each phase of life, while boosting crop yields.



WHAT MAKES BIOTRINSIC™ DIFFERENT

More Beneficial for Your Crop

Microbes are selected to address the key stresses that limit crop yield potential. This allows you to select the right biotrinsic™ products based on the stresses that have the greatest impact on your farm.

From Plants for Plants

biotrinsic™ is a collection of over 30,000 naturally occurring microbes that have been extracted from plants thriving in stressful conditions. We isolate microbes that are abundant in plants that are thriving under stress while other plants around them are not. This allows us to tailor our products to a specific crop and set of stresses.

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