



SOYBEAN

PRODUCT PORTFOLIO

biottrinsic
by indigo

 SATISFACTION
GUARANTEE
100% with replant policy.

INDIGO'S BIOLOGICAL SEED TREATMENT

Plant for Performance and Grow with Confidence

Soybean

biottrinsic® N13 + E13

biottrinsic® N13 is our proprietary multi strain Bradyrhizobium that is 30-100% more efficient at nitrogen fixation than older strains.

2 NEW BREAKTHROUGH TECHNOLOGIES COMBINED TO INCREASE NUTRIENT UPTAKE IN STRESSFUL CONDITIONS

Have you experienced variability, environmental, or nutrient stress that impacts yield in your fields or across your farm?

Your soybean rhizobium may not be delivering nitrogen efficiently to your soybean plants.

Nitrogen deficiency and inefficient rhizobium strains can result in shortened soybean plants, low pod number, low seed number, dry or shriveled seeds, nodules, and pods, wilting plants, and yield loss.



N13 STARTS WORKING FROM THE MOMENT YOU PLANT THE SEED AND WORKS FROM THE ROOTS TO THE SHOOTS TO IMPROVE ENVIRONMENTAL STRESS TOLERANCE AND NUTRIENT LOADING ALL SEASON LONG TO HELP YOUR CROP BETTER WITHSTAND THE STRESSES NEGATIVELY IMPACTING YIELD

FEATURES AND BENEFITS

- › Nodules are larger leading to increased holding capacity of nitrogen for the plant's use
- › N13 nodules are wrinkled in appearance and provide greater surface area for nitrogen conversion
- › Includes E13, an extender, which facilitates on seed survival of 120 days providing greater planting flexibility
- › Includes a polymer that supports on seed stability and seed flow resulting in fewer skips and doubles
- › Tolerant to glyphosate which optimizes nitrogen fixation
- › Works better than traditional Bradyrhizobium in hot dry soils or cool wet soils

1
patented strain

glyphosate tolerant

3
exclusive strains

more efficient

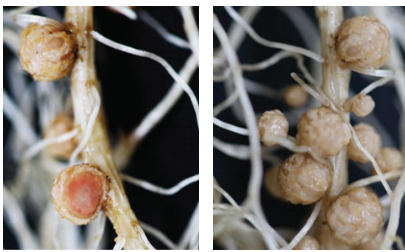
**Product performance information based on third-party field trials. Results will vary across growers and farm operations. A number of variables may affect agronomic outcomes. Indigo does not make any representations, warranties or guarantees as to any specific results or outcomes. Product may not be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

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N13 IS OUR EXCLUSIVE PROPRIETARY BLEND OF 3 BRADYRHIZOBIUM STRAINS, 1 IS PATENTED. THIS COMBINATION IS 30-100% MORE EFFICIENT THAN OLDER STRAINS

Strong leghemoglobin response in nodules;
actively fixing nitrogen



biotrinsic®

Significant increase of nodulation on the
tap root



Untreated

biotrinsic®

Treated plants show less symptoms of
nitrogen deficiency



Untreated

biotrinsic®



HOW MUCH NITROGEN DOES 60 BU REQUIRE?

To put that into perspective
that is:

591 lbs of urea per acre
or
68 gal of UAN per acre

240 LBS

NITROGEN

N13 at work in the field

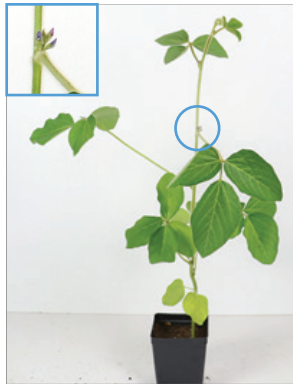
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BRADYRHIZOBIUM

N13 is our exclusive proprietary blend of 3 Bradyrhizobium strains, 1 is patented. This combination is 30-100% more efficient than older strains.



Untreated



biotrinsic™

30-100%

MORE EFFICIENT BRADYRHIZOBIUM

Soybeans benefit from this unique Bradyrhizobium and forms nodules that are:

- › **Larger** = greater reservoir of nitrogen that the plant can access
- › **Wrinkled** = provides a greater surface area for nitrogen conversion
- › **Fewer** = the plant has less nodules to feed which makes it more efficient and can use the energy elsewhere
- › **Glyphosate tolerant** = optimized nitrogen fixation
- › **Resilient in soil** = hot dry soils or cool wet soils

Our proprietary 3 strain Bradyrhizobium maximizes nitrogen availability and uptake. Together these provide superior nutrition to the plant.

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PRODUCT DETAILS

CAN BE USED ON

- › Fields where nutrient deficiencies have limited yields in the past
- › Fields that have a history of flooding or long periods of drought or high temperatures
- › Dryland fields where rain fed crops are limited by moisture
- › Sandy soils where it is more difficult for rhizobia to survive one season to the next
- › Fields that have low soil phosphorus
- › Fields that don't have the optimal soil pH of 6 to 7
- › Fields where soybeans have not been grown before
- › Crops that are planted in an ideal or late planting window
- › All soybean varieties and traits

HOW TO USE IT

- › Seed treater friendly
- › By applying it directly to the seed, the microbes are adhered to the roots where it starts to work immediately supporting plant health and nutrition. You don't have to worry about weather events stripping away your investment.
- › The low use rate allows additional room on the seed so it can be applied with other products.
- › Application to the seed creates an immediate team between microbes and plants positively improving plant and root growth with no wasted time. Our seed treatment starts working the moment you plant because it's on the seed.
- › 120 days on-seed stability provides the flexibility you need during the planting season.
- › Broad chemical compatibility so it can be used with your existing treatments. Always reference Indigo's compatibility guide.



Pkg Treats	Pkgs/ Case	Case	Case Treats	Unit Measures
400 units	1	1x400	400 units	50 lbs

Application Rate: 1.35 fl oz/CWT
(after dilution in mix tank slurry)



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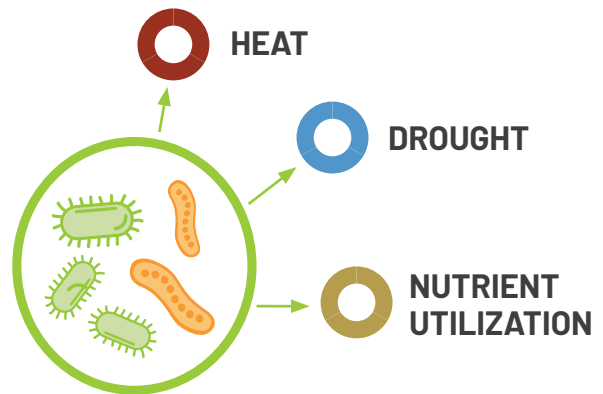
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THE SCIENCE BEHIND THE DIFFERENCE

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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