

NEXTA™ >> *SPEEDBOX C2*

NEXTA™ >> *SPEEDBOX C3*

NEXTA™ >> *SPEEDBOX S2*

NEXTA™ >> *SPEEDBOX S3*

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This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels contain important precautions, directions for use, and product warranty and liability limitations, which must be read before using the product(s). Always read and follow all label direction and precautions for use. This product is not for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale and use in your state. Do not activate BIO-CAPSULE until ready to use. Shake between each use. Read and follow all label directions for use on package. Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. Before each application, aggressively shake contents to ensure the correct volume is applied. Product is harmful if swallowed. This product may be harmful or irritating to eyes. Do not ingest. Avoid contact with eyes. Do not inhale powder. Many factors contribute to crop performance and return on investment. The information contained herein is true and accurate to the best of our knowledge and belief, but is presented without guarantee since field conditions and use are beyond our control. Neither the manufacturer nor the seller make any warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use of this material when such use is contrary to label instruction. NEXTA™ biologicals products are designed to help plants function more efficiently and are not replacements for sound agronomy and fertility programs. They work in concert with good farming practices to help the plant realize its true yield potential. ©2024 Corteva Agriscience. NXSHLDSS (09/24)™

Study References:

Bokmeyer, J. (2022). Microbial Delivery System Effectiveness on Seed Treatments: A field study of planter box delivery coverage on seed through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

Bokmeyer, J. (2024). BIO-CAPSULE Delivery System Coverage of Active Ingredients: A field study of delivery of dry seed actives through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

3rd party studies contracted by Meristem through independent agronomy trials.

**STRESS LESS,
YIELD MORE.**

A GAMECHANGING DELIVERY SYSTEM

There are three primary soil components. The first two are near and dear to classically-trained agronomists. The third is an entirely new realm that we're continuing to discover.

1) CHEMICAL.

Soil chemical properties like cation exchange capacity, soil pH, and base saturation.

2) PHYSICAL.

Soil physical properties like soil texture, color, structure, porosity, and density.

3) BIOLOGICAL.

The health and vibrance of soil microbiology, which is the engine that drives it all!

Several products featuring supplemental microorganisms to improve soil microbiology have been introduced, but they all share a common challenge. Keeping the microorganisms viable long enough to get them efficiently delivered to the soil. The NEXTA SPEEDBOX, powered by BIO-CAPSULE™ Technology, is a gamechanger.*

Microorganisms are stored in a food-grade, sealed BIO-CAPSULE, absent of oxygen and water, until right before you're ready to plant. Even if you've tried other supplemental microorganisms before, the convenience, consistency, and performance of the NEXTA SPEEDBOX is a whole new ballgame.



* Bokmeyer, J. (2024). Bio-Capsule Delivery System coverage of Active Ingredients: A field study of delivery of dry seed actives through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

NEXTA™ >> SPEEDBOX C3

NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM FOR CORN

POWERED BY

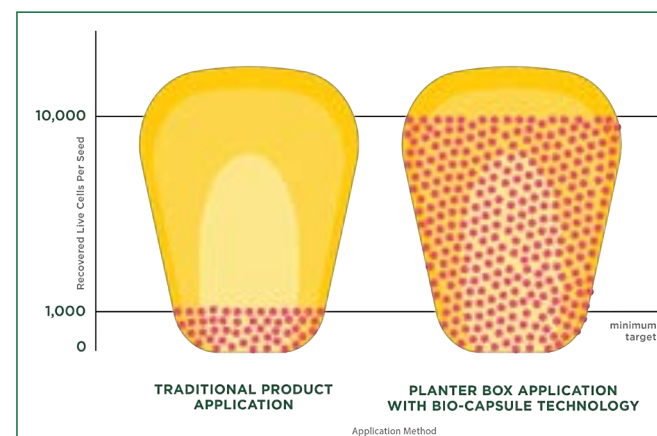


BIO-CAPSULE™ Technology:

a unique tool to deliver biologicals safely to the furrow. The patented delivery system makes it happen – more bushels for less.

BIO-CAPSULE = MORE LIVE CELLS PER SEED

To confirm even product distribution, seed lubricant plus the Terrasym® biological was applied per grower standard practice. Ag Ingenuity Partners' agronomists collected seed samples at various progress points during planting (20%, 50%, and 80% completion). New Leaf Symbiotics scientists assessed the seed samples to confirm the living microbes found in Terrasym products were evenly distributed across large-scale commercial fields. Over 10,000 live cells per seed were found at each stage of planting, 10x more than traditional applications.*



OVER 10,000 LIVE CELLS PER SEED AT EACH STAGE OF PLANTING



LIVE CELLS PER SEED WITH TERRASYM FOR CORN

20% planted = 40,228
50% planted = 37,735
80% planted = 40,212

* Bokmeyer, J. (2022). Microbial Delivery System Effectiveness on Seed Treatments: A field study of planter box delivery coverage on seed through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

NEXTA™ >> SPEEDBOX S3

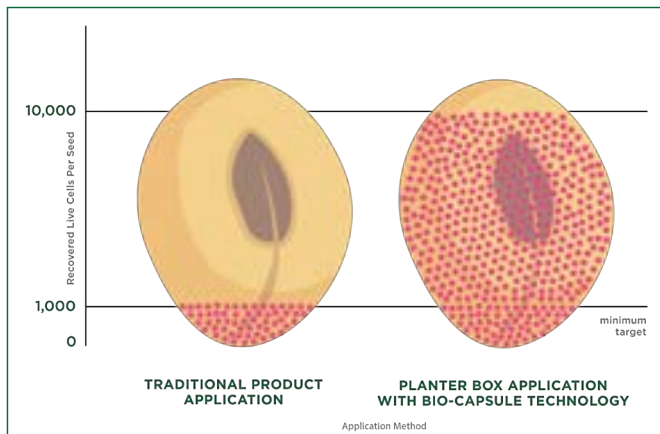
NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM FOR SOYBEANS



BIO-CAPSULE™ Technology:
a unique tool to deliver biologicals
safely to the furrow. The patented
delivery system makes it happen –
more bushels for less.

BIO-CAPSULE = MORE LIVE CELLS PER SEED

To confirm even product distribution, seed lubricant plus the Terrasym® biological was applied per grower standard practice. Ag Ingenuity Partners' agronomists collected seed samples at various progress points during planting (20%, 50%, and 80% completion). New Leaf Symbiotics scientists assessed the seed samples to confirm the living microbes found in Terrasym products were evenly distributed across large-scale commercial fields. Over 10,000 live cells per seed were found at each stage of planting, 10x more than traditional applications.*



OVER 10,000 LIVE CELLS
PER SEED AT EACH STAGE
OF PLANTING



LIVE CELLS PER SEED WITH
TERRASYM
FOR SOYBEAN

20% planted = 39,914

50% planted = 38,312

80% planted = 38,591

POWER IN THE PAIL

NEXTA SPEEDBOX is powered by BIO-CAPSULE Technology – a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

INSIDE THE PAIL >>

* Bokmeyer, J. (2022). Microbial Delivery System Effectiveness on Seed Treatments: A field study of planter box delivery coverage on seed through commercial planter equipment. Indianapolis, IN, Ag Ingenuity Partners.

BENEFITS IN THE PAIL CORN

WITHIN THE BIO-CAPSULE™



<i>Azotobacter chroococcum</i>	Free-living, nitrogen-fixing bacteria that can contribute significantly to plant nutrition and growth. Bacteria in this genus can also synthesize natural plant hormones and stimulate microbes in the rhizosphere.
<i>Azotobacter vinelandii</i>	Nitrogen-fixing bacteria which can take up nitrogen from air. Azotobacter species can also convert atmospheric nitrogen to ammonia.
<i>Trichoderma harzianum</i>	Fungal microorganism well known for its positive association with plant roots—supporting plant health by improving root architecture and positively influencing plant nutrient uptake.
<i>Bacillus amyloliquefaciens</i>	Grows with plant roots and forms a long-lasting active biofilm on fine root hairs, resulting in an excellent biofertilizer that can activate soil nutrients by changing the forms of soil elements.
<i>Bacillus subtilis</i>	Solubilizes soil phosphorus and enhances nitrogen utilization, as well as promotes plant growth.
<i>Bacillus licheniformis</i>	Improves soil micro-ecology and increases fertilizer use efficiency. This bacterium grows with plant roots and provides season-long benefits.
<i>Bacillus pumilus</i>	Enhances plant-boron uptake through nutrient availability in the soil and has been documented to increase nitrogen uptake in plants.
<i>Bacillus megaterium</i>	Resilient bacterium that is known to produce phosphate-fixing and potassium-fixing fertilizers.



Terrasym® <i>Methylobacterium gregans</i>	A proven, industry-leading biostimulant PPFM strain that generates massive root structures.
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ETHER™ Enzyme Technology	ETHER™ Enzyme Technology is designed to work with live microbes to activate nutrient availability more quickly in the soil through the combination of two enzymes, mannanase and lipase, and active carbon. ETHER dramatically improves the availability of phosphorus (P) and potassium (K) and provides a gateway for faster colonization of biologicals.
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CORN - POWER IN THE PAIL

If you compare the approximate value of each component to alternative options – each pail has \$59 per acre of value.



Terrasym®

- Proven, industry-leading biostimulant PPFM strain
- Generates massive root structures

VALUE: \$5/AC

Replace traditional root enhancement and plant growth products



8-Pack of Biofertility & N-Fixing Microbes

- Increases early-season plant nutrition and nitrogen fixation

VALUE: \$22/AC

Replace nitrogen fixers & nutrient solubilizers.



ETHER™ Enzyme Technology

- A Lipase & Mannanase enzyme and Active Carbon combo
- Increases microbial activity
- Kick-starts the uptake of available soil nutrients and water

VALUE: \$24/AC

Replace 6-24-6 liquid row starter.

The Base Pail

Seed Fluency with Fe & Mn

- Best-In-Class 80/20 Talc/ Graphite and micronutrient blend
- Ensures optimum planting performance

VALUE: \$2/AC

IONLOCK Zinc™

- Delivers a high-volume load of zinc to the furrow
- Increases singulation and adheres microbes to seed coats

VALUE: \$6/AC

Replaces 1.2 qt of Zinc 9% EDTA

TOTAL VALUE IN THE CORN PAIL: ~ \$59/AC

BENEFITS IN THE PAIL SOYBEAN

WITHIN THE BIO-CAPSULE™



<i>Azotobacter chroococcum</i>	Free-living, nitrogen-fixing bacteria that can contribute significantly to plant nutrition and growth. Bacteria in this genus can also synthesize natural plant hormones and stimulate microbes in the rhizosphere.
<i>Azotobacter vinelandii</i>	Nitrogen-fixing bacteria which can take up nitrogen from air. Azotobacter species can also convert atmospheric nitrogen to ammonia.
<i>Azospirillum brasilense</i>	Rhizobacteria which is able to increase plant growth by fixing atmospheric N nonsymbiotically and by producing plant growth substances such as plant hormones (auxins).
<i>Azospirillum lipoferum</i>	Rhizobacteria known for its phytohormone production and nitrogen-fixing ability.
<i>Paenibacillus azotofixans</i>	Nitrogen-fixing bacterium which competitively colonizes plant roots and enhances plant growth by several direct mechanisms including phosphate solubilization, nitrogen fixation, degradation of environmental pollutants, and hormone production.
<i>Trichoderma harzianum</i>	Fungal microorganism well known for its positive association with plant roots—supporting plant health by improving root architecture and positively influencing plant nutrient uptake.
<i>Bacillus amyloliquefaciens</i>	Grows with plant roots and forms a long-lasting active biofilm on fine root hairs, resulting in an excellent biofertilizer that can activate soil nutrients by changing the forms of soil elements.
<i>Thiobacillus ferrooxidans</i>	Oxidizes iron as an energy source to support autotrophic growth and produces ferric iron as well as oxidizing sulfur—producing sulfates useful for the plant.
<i>Bacillus subtilis</i>	Solubilizes soil phosphorus and enhances nitrogen utilization, as well as promotes plant growth.
<i>Bacillus licheniformis</i>	Improves soil micro-ecology and increases fertilizer use efficiency. This bacterium grows with plant roots and provides season-long benefits.
<i>Bacillus pumilus</i>	Enhances plant-boron uptake through nutrient availability in the soil and has been documented to increase nitrogen uptake in plants.
<i>Bacillus megaterium</i>	Resilient bacterium that is known to produce phosphate-fixing and potassium-fixing fertilizers.



Terasym® <i>Methylobacterium hispanicum</i>	A proven, industry-leading biostimulant PPFM strain that generates massive root structures.
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ETHER™ Enzyme Technology	ETHER™ Enzyme Technology is designed to work with live microbes to activate nutrient availability more quickly in the soil through the combination of two enzymes, mannanase and lipase, and active carbon. ETHER dramatically improves the availability of phosphorus (P) and potassium (K) and provides a gateway for faster colonization of biologicals.
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SOYBEAN - POWER IN THE PAIL

If you compare the approximate value of each component to alternative options – each pail has \$49 per acre of value.



Terasym®

- Proven, industry-leading biostimulant PPFM strain
- Generates massive root structures

VALUE: \$5/AC

Replace traditional root enhancement and plant growth products



12-Pack of Biofertility & N-Fixing Microbes

- Increases early-season plant nutrition and nitrogen fixation

VALUE: \$12/AC

Replace nitrogen fixers & nutrient solubilizers.



ETHER™ Enzyme Technology

- A Lipase & Mannanase enzyme and Active Carbon combo
- Increases microbial activity
- Kick-starts the uptake of available soil nutrients and water

VALUE: \$24/AC

Replace 6-24-6 liquid row starter.

The Base Pail

Seed Fluency with Fe & Mn

- Best-In-Class 80/20 Talc/ Graphite and micronutrient blend
- Ensures optimum planting performance

VALUE: \$2/AC

IONLOCK Zinc™

- Delivers a high-volume load of zinc to the furrow
- Increases singulation and adheres microbes to seed coats

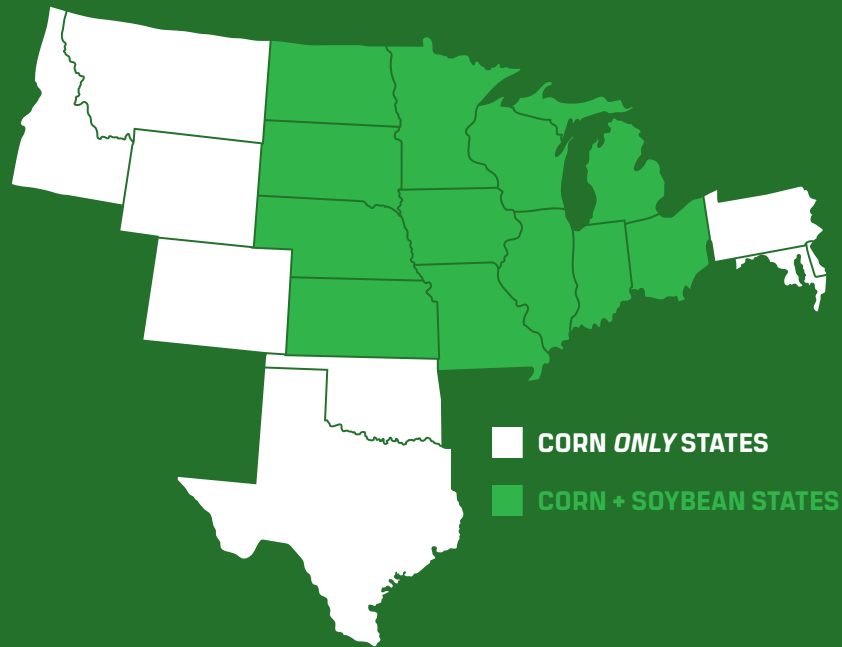
VALUE: \$6/AC

Replaces 1.2 qt of Zinc 9% EDTA

TOTAL VALUE IN THE SOYBEAN PAIL: ~ \$49/AC

UNLOCK THE YIELD POTENTIAL OF HEALTHY AND VIBRANT SOIL MICROBIOLOGY

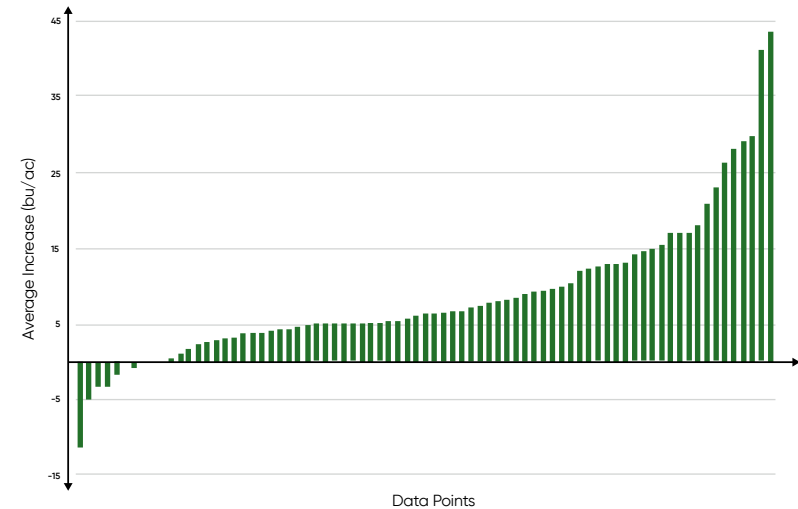
The results are in – and the benefits are real, and repeatable. Put the power of LIVE biology to work in your fields with the at-planting convenience of the NEXTA SPEEDBOX, powered by BIO-CAPSULE Technology.



THE RESULTS »

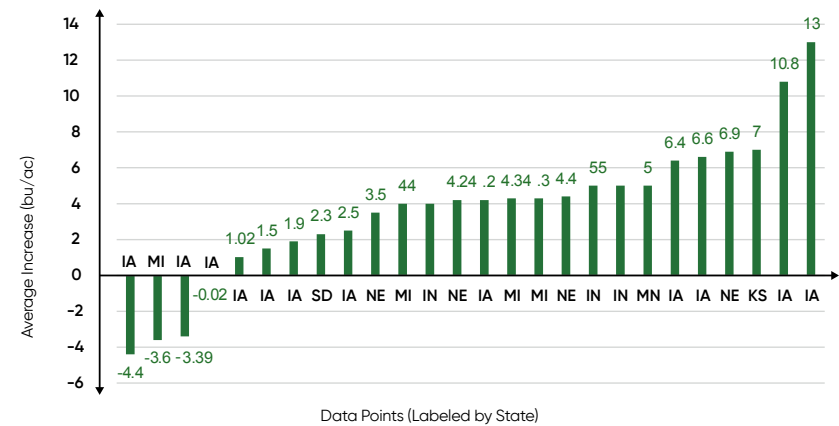
CURRENT DATA RESULTS

NEXTA™ SPEEDBOX C2 CORN YIELD RESULTS*



POSITIVE RESPONSE 88% | AVERAGE INCREASE 8.7 BU/AC | DATA POINTS 90 | LOCATIONS 50 | STATES 11

NEXTA™ SPEEDBOX S2 SOYBEANS YIELD RESULTS*



POSITIVE RESPONSE 85% | AVERAGE INCREASE 3.7 BU/AC | DATA POINTS 26 | LOCATIONS 21 | STATES 7

* 3rd party studies contracted by Meristem through independent agronomy trials.