

2019 Product Launches



Nematodes are stealing corn, soybean and cotton yields—and getting away with it. Now, you can strike back with NemaStrike™ Technology—a seed treatment technology that controls nematodes and protects yields.



A powerful pair of Bio-Enhancer products complement our lineup of fungicides, insecticides, and nematicides. The BioRise™ 2 Corn Offering contains two separate but powerful products—Acceleron® B-300 SAT and Acceleron® B-360 ST.

Acceleron® B-300 SAT releases phosphate bound in the soil, making it available to the plant. Acceleron® B-360 ST is designed to enhance mycorrhizal colonization which increases functional root volume, and increases water and nutrient uptake through the roots.^[2] Studies demonstrated that Acceleron® B-360 ST increased mycorrhizal colonization by 85.1%.^[3] Increased nutrient availability and nutrient/water uptake increases yield potential.

1. BioRise™ 2 Corn Offering is the on-seed application of the separately registered products Acceleron® B-300 SAT and Acceleron® B-360 ST.
2. <http://www.mdpi.com/2073-4395/7/4/75>
3. 2017 Monsanto/Novozymes Growth Chamber Trials

Coverage on 4 fronts. One easy decision.

You can't predict what the season has in store. But you can prepare for it. With the Acceleron® portfolio of products, one decision can give your seeds the coverage they need to rise out of the ground strong, healthy and ready for just about anything.

FUNGICIDES

Diseases cost farmers millions of bushels per year. Our exclusive combinations of fungicides protect against the top diseases for each crop, including *Fusarium*, *Pythium* and *Rhizoctonia solani*.

INSECTICIDES

Early season insects feed on seeds and seedlings, which can cause delayed emergence, stand loss, plant injury and stunting. Our insecticides control early season pests that cause significant damage to crops across the U.S.

NEMATICIDES

Nematodes cost an estimated >10% yield loss!^[4] They pierce and infect roots, causing a loss of nutrients and water, while opening the door for secondary issues. NemaStrike™ Technology controls a wide range of nematodes for up to 75 days.

BIO-ENHANCERS

Nutrient and moisture deficiencies can impair root growth, making it even harder for plants to get the nutrients and moisture they need. Bio-Enhancers make nutrients available to plants, helping maximize yield potential. While benefits vary by crop, these products can also enhance functional root volume and increase nutrient uptake, protecting plants from moisture or nutrient stress.

4. Nationwide estimated loss. Ferris, Howard. "Nematodes and Plant Damage." University of California, 1 Oct. 2015. Web.



Upgrade Offering



Nematodes cost an estimated 10.2% yield loss in corn.^[4] They're invisible, invasive and often underestimated. But now farmers can take back their bushels with NemaStrike™ Technology. It delivers broad-spectrum nematode control from the start, and stays in the root zone for up to 75 days.

AVG. YIELD PROTECTION ADVANTAGE



Over Acceleron® Seed Applied Solutions Base Offering^[5]
N = 140 Trials

4. Nationwide estimated loss. Ferris, Howard. "Nematodes and Plant Damage." University of California, 1 Oct. 2015. Web.
5. 4-Year Average Yield Protection Advantage over control, across all locations and thresholds. N=140 Trials (2014, 2015, 2016, 2017) (AR, GA, IL, IN, IA, KS, KY, MD, MI, MN, MS, MO, NE, NC, ND, OH, SC, SD, TN, TX, VA, WI). Results will vary based on nematode pressure in each field.

Protection and Support for Corn



CORN WITH SMARTSTAX® TECHNOLOGY

 ACCCELERON® BASIC <small>plus Poncho/VOTIVO®</small>	 ACCCELERON® ELITE <small>plus Poncho/VOTIVO®</small>
 Fungicides Insecticides Nematicides Bio-Enhancers	 Fungicides Insecticides Nematicides Bio-Enhancers
NEMATODE PROTECTION/INSECTICIDE Protection against damage from a wide range of nematode species, as well as clothianidin at 0.500 mg/seed rate, which provides protection from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis, and black cutworm	NEMATODE PROTECTION/INSECTICIDE Protection against damage from a wide range of nematode species, as well as clothianidin at 0.500 mg/seed rate, which provides protection from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis, and black cutworm
FUNGICIDES Protection against soil and seedborne diseases, including <i>Fusarium</i> , <i>Rhizoctonia solani</i> and <i>Pythium</i>	FUNGICIDES Protection against soil and seedborne diseases, including <i>Fusarium</i> , <i>Rhizoctonia solani</i> and <i>Pythium</i>

BIORISE™ 2 CORN OFFERING^[6]

6. Class of 2017, 2018, 2019 base genetics are treated with BioRise™ 2 Corn Offering, which contains Acceleron® B-300 SAT and Acceleron® B-360 ST.

CORN WITHOUT SMARTSTAX® TECHNOLOGY

 ACCCELERON® BASIC	 ACCCELERON® ELITE
 Fungicides Insecticides Nematicides Bio-Enhancers	 Fungicides Insecticides Nematicides Bio-Enhancers
INSECTICIDE Clothianidin at 0.250 mg/seed rate: Protection from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis, and black cutworm	INSECTICIDE Clothianidin at 0.250 mg/seed rate: Protection from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis, and black cutworm
FUNGICIDES Protection against soil and seedborne diseases, including <i>Fusarium</i> , <i>Rhizoctonia solani</i> and <i>Pythium</i>	FUNGICIDES Protection against soil and seedborne diseases, including <i>Fusarium</i> , <i>Rhizoctonia solani</i> and <i>Pythium</i>

BIORISE™ 2 CORN OFFERING^[6]

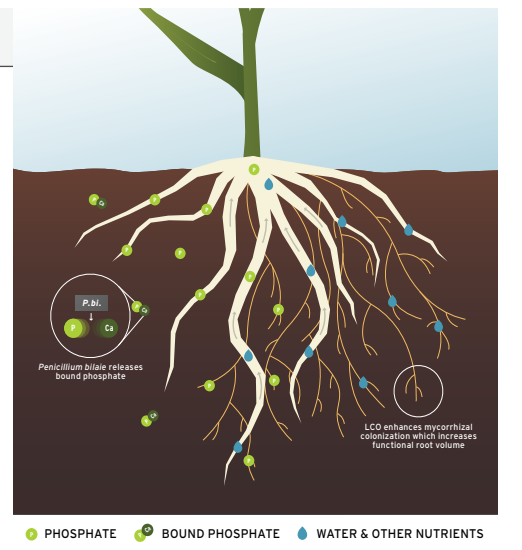
6. Class of 2017, 2018, 2019 base genetics are treated with BioRise™ 2 Corn Offering, which contains Acceleron® B-300 SAT and Acceleron® B-360 ST.

SEAMLESS CORN OFFERING^[7]

BioRise™ 2 Corn Offering^[1] is a powerful pair of Bio-Enhancer products that complement our lineup of fungicides, insecticides and nematicides. This offering contains two separate but powerful products—Acceleron® B-300 SAT and Acceleron® B-360 ST.

Acceleron® B-300 SAT (*Penicillium bilaiae*) releases phosphate bound in the soil, making it available to the plant.

Acceleron® B-360 ST (LCO SP104) is designed to enhance mycorrhizal colonization which increases functional root volume, and increases water and nutrient uptake through the roots.^[2] Studies demonstrated that Acceleron® B-360 ST increased mycorrhizal colonization by 85.1%.^[3] Increased nutrient availability and nutrient/water uptake increases yield potential.



ADDITIONAL CORN OFFERINGS

QuickRoots® Technology helps maximize your corn yields—especially in fields with limitations in moisture or nutrient availability. The microbes in QuickRoots® Technology help increase availability and uptake of nitrogen, phosphate and potassium. The availability of additional N, P and K supports development of bigger roots which helps increase uptake of moisture and nutrients to enable better plant growth and increased yield potential.

Protection and Support for Cotton



 ACCCELERON® BASIC	 ACCCELERON® STANDARD^[8]
 Fungicides Insecticides Nematicides Bio-Enhancers	 Fungicides Insecticides Nematicides Bio-Enhancers
FUNGICIDES Protection against <i>Rhizoctonia solani</i> , <i>Pythium</i> , <i>Fusarium</i> , and <i>Thielaviopsis basicola</i> from an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain cold conditions	FUNGICIDES Protection against <i>Rhizoctonia solani</i> , <i>Pythium</i> , <i>Fusarium</i> , and <i>Thielaviopsis basicola</i> from an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain cold conditions
INSECTICIDE Reduces damage to cotton caused by early season insect pests, including thrips and aphids	INSECTICIDE Reduces damage to cotton caused by early season insect pests, including thrips and aphids
ADDITIONAL OFFERINGS Bio-Enhancers: QuickRoots® Technology	

ADDITIONAL COTTON OFFERINGS

QuickRoots® Technology helps maximize your cotton yields—especially in fields with limitations in moisture or nutrient availability. The microbes in QuickRoots® Technology help increase availability and uptake of nitrogen, phosphate and potassium. The availability of additional N, P and K supports development of bigger roots which helps increase uptake of moisture and nutrients to enable better plant growth and increased yield potential.

1. BioRise™ 2 Corn Offering is the on-seed application of the separately registered products Acceleron® B-300 SAT and Acceleron® B-360 ST.
2. <http://www.mdpi.com/2073-4395/7/4/75>
3. 2017 Monsanto/Novozymes Growth Chamber Trials
7. Class of 2017, 2018, 2019 base genetics are treated with BioRise™ 2 Corn Offering, which contains Acceleron® B-300 SAT and Acceleron® B-360 ST.
8. Some products may also be treated with Poncho/VOTIVO®

Protection and Support for Soybeans



<p>ACCELERON BASIC</p> <p>FUNGICIDES Protection against <i>Pythium</i>, early season <i>Phytophthora</i>, <i>Rhizoctonia solani</i> and <i>Fusarium</i> from an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain cold conditions</p> <p>INSECTICIDE Protection from pests including bean leaf beetles, early season soybean aphids, and seedcorn maggots</p> <p>NEMATODE CONTROL Up to 75 days of broad-spectrum control of plant-parasitic nematodes that includes, but is not limited to, SCN, Root-Knot, and Reniform</p> <p>ADDITIONAL OFFERINGS</p> <p>Bio-Enhancers: Acceleron® B-200 SAT, TagTeam® LCO XC, Optimize® XC and QuickRoots® Technologies</p>	<p>ACCELERON STANDARD</p> <p>FUNGICIDES Protection against <i>Pythium</i>, early season <i>Phytophthora</i>, <i>Rhizoctonia solani</i> and <i>Fusarium</i> from an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain cold conditions</p> <p>INSECTICIDE Protection from pests including bean leaf beetles, early season soybean aphids, and seedcorn maggots</p> <p>NEMATODE CONTROL Up to 75 days of broad-spectrum control of plant-parasitic nematodes that includes, but is not limited to, SCN, Root-Knot, and Reniform</p> <p>ADDITIONAL OFFERINGS</p> <p>Dry Seed Finisher: Acceleron® E-007 SAT</p>	<p>ACCELERON ELITE</p> <p>FUNGICIDES Protection against <i>Pythium</i>, early season <i>Phytophthora</i>, <i>Rhizoctonia solani</i> and <i>Fusarium</i> from an exclusive combination of fungicides and more rapid and increased emergence of seedlings under certain cold conditions</p> <p>INSECTICIDE Protection from pests including bean leaf beetles, early season soybean aphids, and seedcorn maggots</p> <p>NEMATODE CONTROL Up to 75 days of broad-spectrum control of plant-parasitic nematodes that includes, but is not limited to, SCN, Root-Knot, and Reniform</p> <p>ADDITIONAL OFFERINGS</p> <p>SDS Protection: iLeVO®</p>
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ADDITIONAL SOYBEAN OFFERINGS

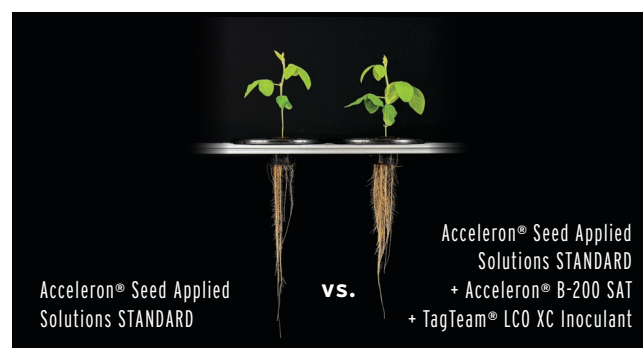
Acceleron® E-007 SAT is a finishing product for soybeans that enhances seed coating and appearance, and improves seed flow through seed handling and planting equipment.

Acceleron® B-200 SAT is a product for soybeans containing plant-derived flavonoids to help enhance nutrient uptake.

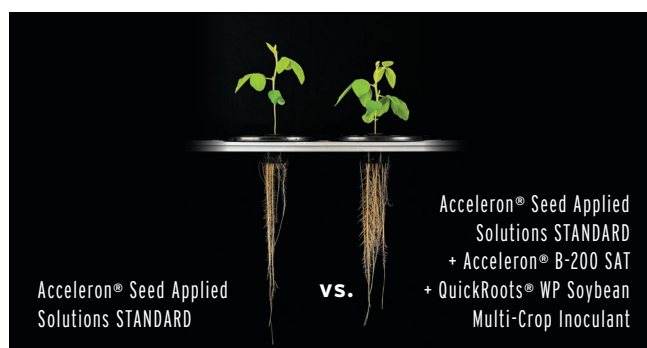
Optimize® XC and TagTeam® LCO XC Technologies are dual- and triple-action soybean inoculants that provide enhanced nutrient capabilities with the industry's lowest application rate of just 0.75 fl oz per unit of seed!⁹⁾

QuickRoots® Technology helps maximize your soybean yields—especially in fields with limitations in moisture or nutrient availability. The microbes in QuickRoots Technology help increase availability and uptake of nitrogen, phosphate and potassium. The availability of additional N, P and K supports development of bigger roots which helps increase uptake of moisture and nutrients to enable better plant growth and increased yield potential.

iLeVo® is the first and only solution for Sudden Death Syndrome.

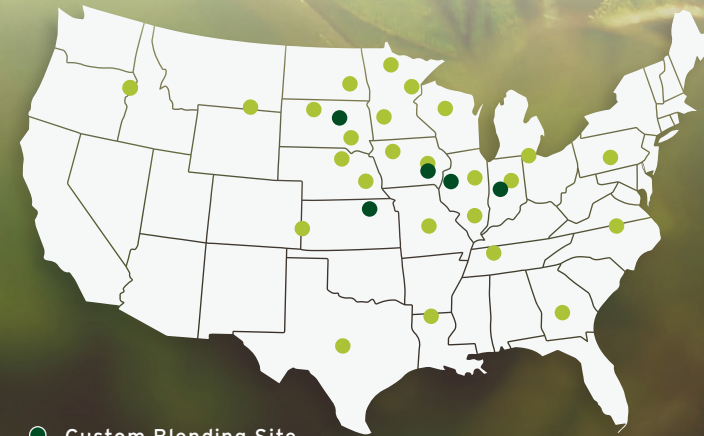


9. 0.75 fl oz per unit of seed with minimum of 1.5 fl oz total volume with water when applied alone



Service and Support That Help You Rise to Your Fullest Potential

CUSTOM BLENDING SITES AND FIELD SUPPORT FOR ENHANCED SERVICE



- Custom Blending Site
- Acceleron® Sales Manager

A DEDICATED SALES TEAM

For 2019, we have 25 sales managers—the largest team of dedicated seed applied solutions sales managers in the industry and they're here to give you the support you need to run your business.

CUSTOM BLENDED PRODUCTS IN LESS TIME

Your customers care about performance. You care about quality. With real-time product blending at our five custom blending sites, we deliver on both—in less time. You get combinations of advanced products, when you need them, so you can get the job done right.

RISE STRONGER AND MORE PROTECTED

No two seasons are alike. Every year is unpredictable, and setbacks are inevitable. Diseases. Insects. Nematodes. Moisture or nutrient stress. That's why the Acceleron® portfolio protects your crops from those yield-limiting threats. Ask your dealer or sales representative about giving your seeds coverage on four fronts, so you can rise stronger from the start.



Prepare for anything

with protection from the start.



2019 OFFERINGS

- FUNGICIDES
- INSECTICIDES
- NEMATOCIDES
- BIO-ENHANCERS

AcceleronSAS.com

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

FOR CORN, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC plus Poncho®/VOTIVO® Offering for corn with SmartStax® Technology; metalaxyl, prothioconazole, fluoxastrobin, clothianidin, Bacillus firmus I582; ELITE plus Poncho®/VOTIVO® Offering for corn with SmartStax® Technology; metalaxyl, clothianidin, and Bacillus firmus I582; prothioconazole and fluoxastrobin at rates that suppress additional diseases. BASIC Offering for corn without SmartStax® Technology; metalaxyl, prothioconazole, fluoxastrobin, and clothianidin. ELITE Offering for corn without SmartStax® Technology; metalaxyl, and clothianidin; prothioconazole and fluoxastrobin at rates that suppress additional diseases. Acceleron® B-300 SAT and Acceleron® B-360 ST are included seamlessly across offerings on all class of 2017, 2018, and 2019 products. For corn with SmartStax® Technology, the upgrade offering of Acceleron NemaStrike ST does not include Poncho®/Votivo® and the offering instead contains clothianidin at the 0.500 mg/seed rate.

FOR SOYBEANS, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC Offering; metalaxyl, fluxapyroxad, and pyraclostrobin. STANDARD Offering; metalaxyl, fluxapyroxad, pyraclostrobin, and imidacloprid. STANDARD FN Offering; metalaxyl, fluxapyroxad, pyraclostrobin, and toixazafen. ELITE Offering; metalaxyl, fluxapyroxad, pyraclostrobin, imidacloprid, and toixazafen. Upstream Treatment Offerings Only: Acceleron® B-200 SAT is included seamlessly in the Acceleron® Seed Applied Solutions STANDARD FN and ELITE tiers.

Always read and follow IRM, where applicable, grain marketing and all other stewardship practices and pesticide label directions.

The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Not all products are approved in all states. Please visit

<http://acceleronas.com/stateapprovals> regarding the approval status of Acceleron® B-360 ST and products containing NemaStrike® Technology for application to seeds in your state.

Acceleron®, BioRise™, Monsanto BioAg and Design™, NemaStrike™, Optimize®, SmartStax®, QuickRoots® and TagTeam® are trademarks of Monsanto Technology LLC. iLeVo®, Poncho® and VOTIVO® are registered trademarks of Bayer. ©2018 Monsanto Company All Rights Reserved