

NEXTA™ »»

STRESS LESS. YIELD MORE.



PIONEER®



CORTEVA™
agriscience

WHY BIOLOGICALS?

We know that yield potential is highest before seed goes into the ground. NEXTA Biologicals protect and preserve this yield potential all season long with our **START, GROW, FINISH** approach.

Maximum yield is a function of genetics by environment by management. While farmers have realized numerous advances in genetics and management, mitigating environmental stress has been largely out of their control. Until now.

Using NEXTA Biologicals, farmers can minimize yield losses due to environmental stress factors and unlock the next frontier in yield potential.

MAXIMIZE YOUR ACRE WITH NEXTA BIOLOGICALS

One of the biggest challenges farmers face is the unpredictability of weather. NEXTA biologicals help address this challenge by adding synthetic hormones to your plants. These hormones work with your crop's natural processes to help it better withstand environmental stresses.

The result? Your plants are better equipped to handle whatever the season throws at them, whether that's a cold snap in the spring, a dry spell in the summer, or heavy rains at any point in the season. By using NEXTA biologicals, you're not just protecting your crop – you're also protecting your peace of mind. You can stress less, knowing your plants are better equipped to handle challenges, and focus on what matters most: maximizing your yield potential. The NEXTA pipeline will continue to develop and test products that:

BOOST PERFORMANCE:

Activate the plant and its environment to maximize crop yield by enhancing the plants' ability to efficiently utilize soil, nutrients, water and sunlight.

BUILD RESILIENCE:

Empower crop vigour to withstand adversity and stress by enabling crops to thrive in the face of abiotic stresses and unfavourable weather.

PROTECT POTENTIAL:

Shield crops from pests and diseases to ensure viability by incorporating powerful and flexible solutions in crop protection programs.

PLANT HORMONE FUNDAMENTALS

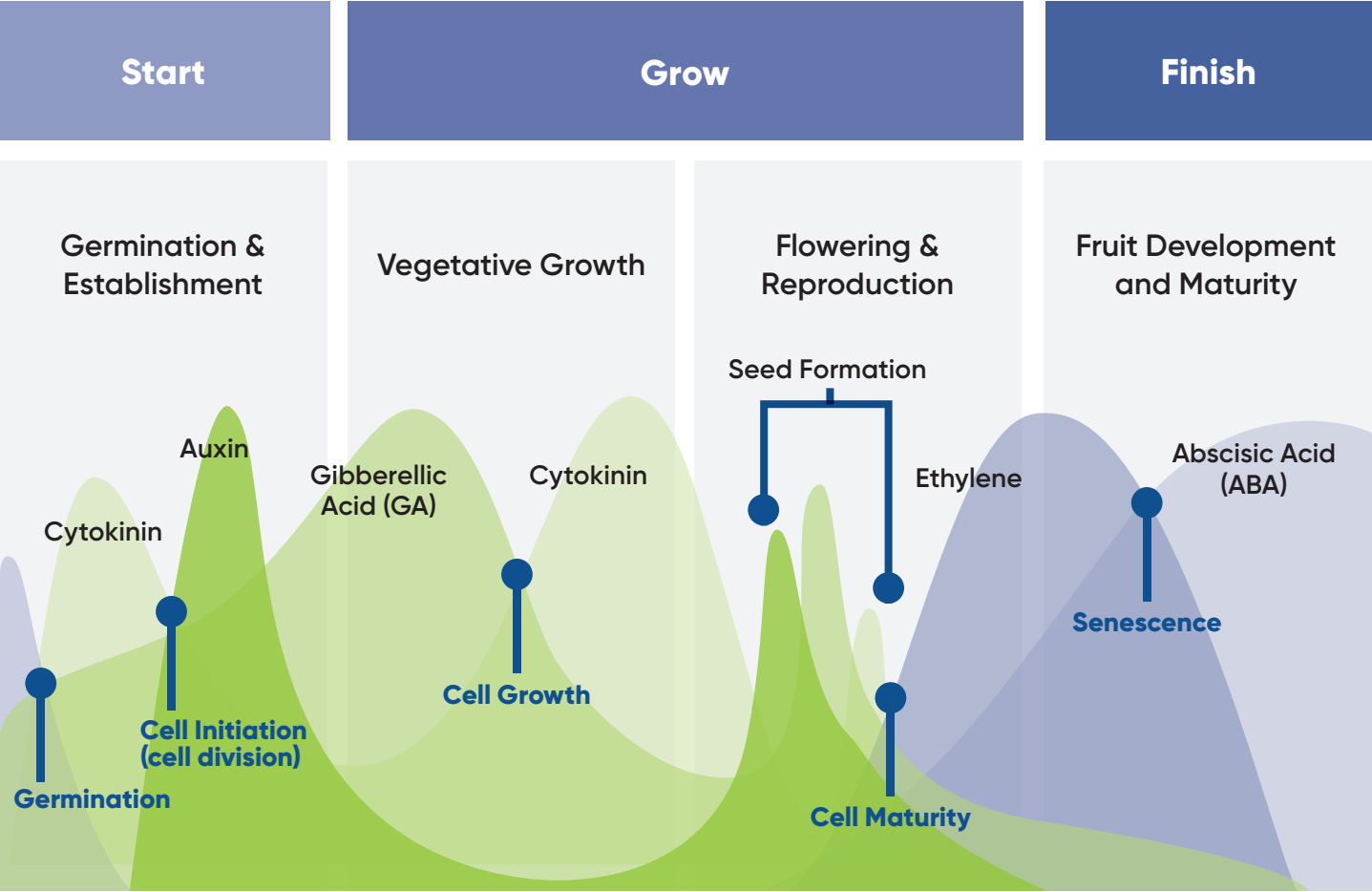
Protecting yield potential with NEXTA biologicals products is straightforward and rooted in science. When plants are stressed, growth hormones are thrown out of balance. Instead of getting growth messages, plants receive stress messages. Growth messages preserve yield potential; stress messages take away yield potential.

Supplemental applications of NEXTA products help ensure growth messages are sent at key yield determining growth stages. To fully understand how this approach works so effectively, it's important to know what plant hormones do. We'll focus on five major plant hormones – three of which are growth hormones, and two that are stress hormones.

BALANCE AND RATIOS ARE KEY

Although the concentration of major plant hormones is important, remember these hormones are messengers, and it is their **ratio** inside the plant that regulates all physiological processes from planting to harvesting.

PLANT HORMONE CYCLE



Ca, Fe, Mg, Mn, Zn, P, N	B, Ca, Cu, Fe, K, Mg, Mn, Zn, Amine N	B, Ca, Cu, K, Mg, Mn, Mo, Amine N	B, Cu, K, Mg, Mn, Mo, P, Amine N
<p>Absciscic Acid (ABA): Keeps the seed dormant before going into the soil.</p> <p>Gibberellic Acid (GA): Breaks dormancy and promotes germination.</p> <p>Cytokinin: Promotes shoot development.</p> <p>Auxin: Promotes root development.</p>	<p>Gibberellic Acid (GA): Promotes cell elongation and stem growth.</p> <p>Cytokinin: Produced in the roots and, along with Auxin, promotes cell division and lateral stem development.</p> <p>Auxin: Produced in the shoot and, along with Cytokinin, promotes cell division and influences root development.</p>	<p>Gibberellic Acid (GA), Cytokinin, & Auxin: Combination of all growth hormones regulate seed set and overall seed development.</p> <p>Ethylene: Triggers ripening and initiates senescence.</p>	<p>Gibberellic Acid (GA), Cytokinin, & Auxin: Growth hormone levels are completely depleted.</p> <p>Absciscic Acid (ABA): Promotes crop senescence and initiates seed dormancy.</p>

KEY MICRONUTRIENTS

Ca

Calcium is crucial for plants as it strengthens cell walls, regulates cell processes, aids enzyme function, enhances nutrient uptake, and boosts plant resilience against environmental stressors.

Mg

Magnesium is vital for plants as it's a core component of chlorophyll, enabling photosynthesis, and activates enzymes essential for energy production, nutrient uptake, and protein synthesis, all of which are critical for plant growth and development.

Mn

Manganese is important for plants because it helps with photosynthesis and nutrient uptake. It acts as a helper, making sure plants have the energy and nutrients they need to grow and stay healthy.

B

Boron is essential for plants as it supports cell wall formation, pollen tube growth, nutrient uptake, sugar transport, enzyme activation, and regulates water uptake through stomatal function, all of which are vital processes for plant growth and development.

KEY MICRONUTRIENTS

Zn

Zinc is important for plants because it helps enzymes work properly. These enzymes are like the workers in a plant’s factory, and they help with tasks like making DNA, proteins, and chlorophyll (which plants use for photosynthesis). Zinc also helps control plant growth and development. It’s like a plant’s regulator, making sure things run smoothly. Overall, zinc is crucial for keeping plants healthy and helping them cope with tough situations.

Cu

Copper is vital for plants as it activates enzymes, aids in photosynthesis through chlorophyll production, regulates iron uptake, contributes to cell wall formation, all essential for plant health and growth.

Mo

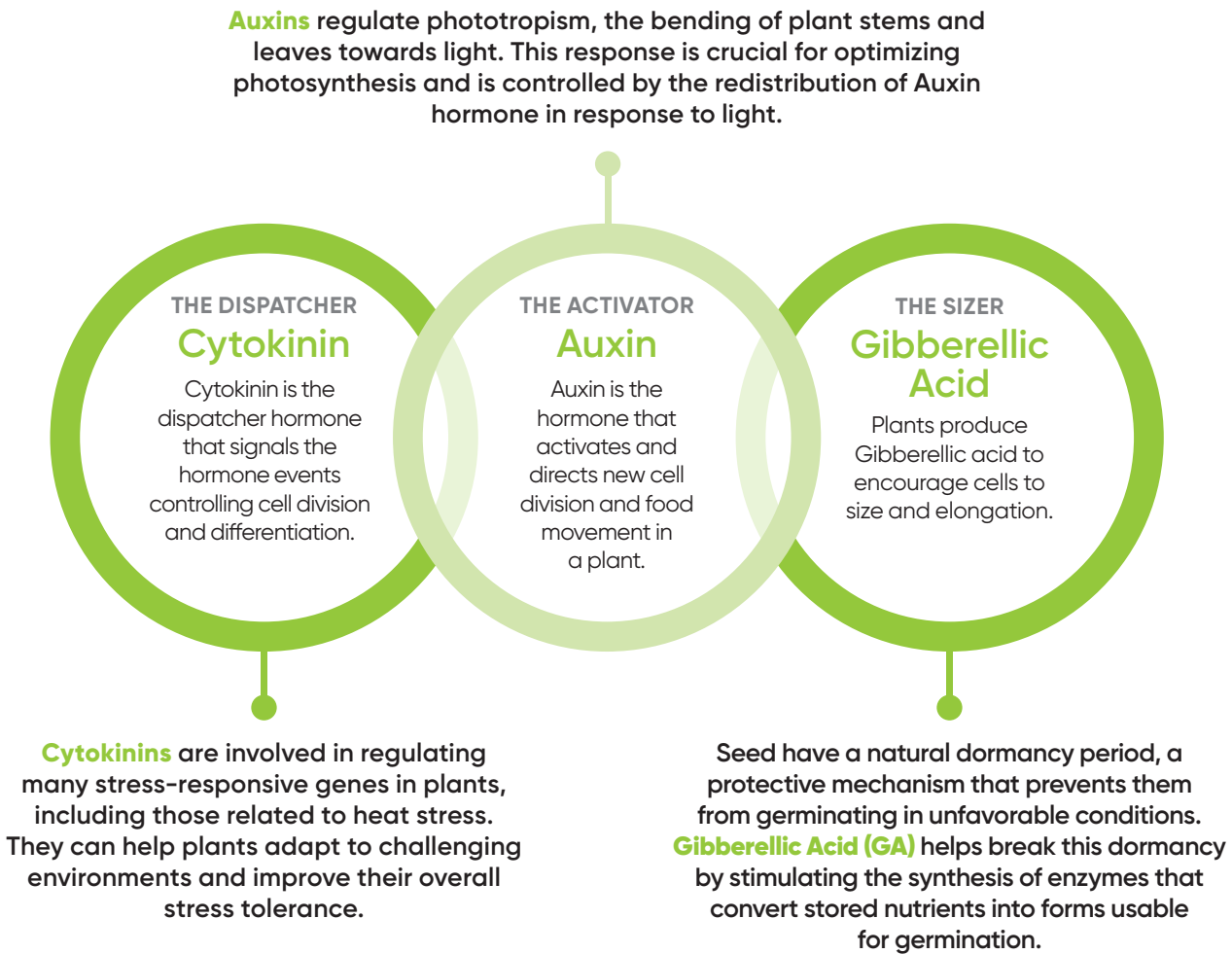
Molybdenum is crucial for plants because it plays a central role in nitrogen metabolism. It is an essential component of enzymes that convert nitrogen from the soil into forms that plants can use to make proteins and grow. Without molybdenum, plants cannot efficiently use nitrogen, leading to nitrogen deficiency and poor growth. In essence, molybdenum ensures that plants can access and utilize the nitrogen they need to thrive and develop properly.

Fe

Iron is essential for healthy plant growth. It plays a key role in chlorophyll production to support photosynthesis, helps legume roots fix nitrogen from the air into a form the plant can use, and iron-containing proteins are essential for energy conversion. Without enough iron, plants struggle to grow and function properly.

GROWTH HORMONES

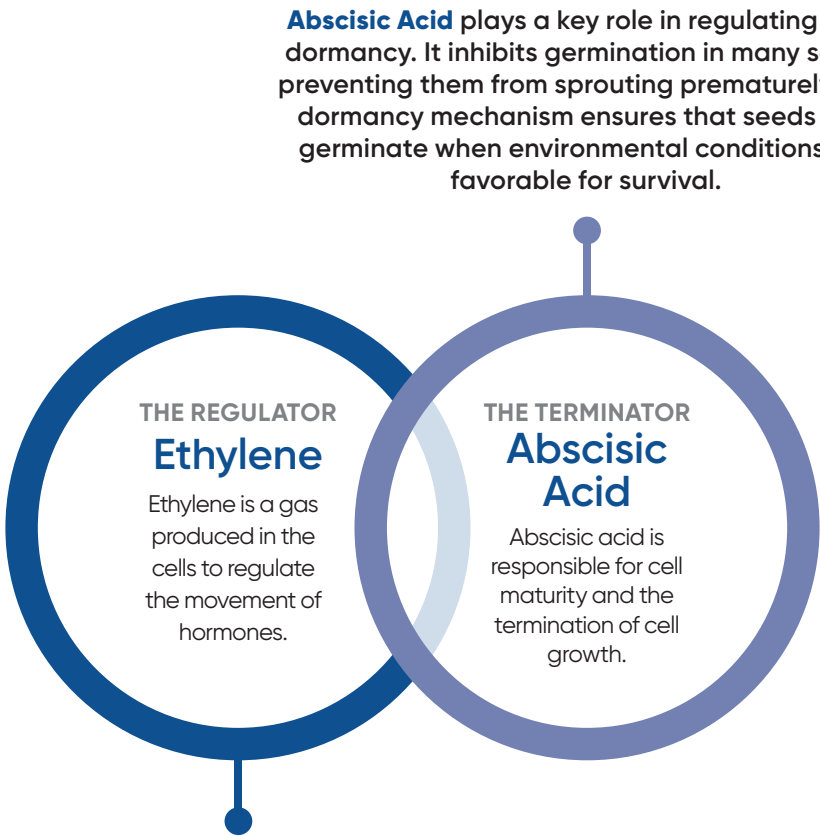
Plant growth hormones, also known as phytohormones, are essential chemical messengers that govern various aspects of plant growth and development. These hormones include Auxins, Gibberellins, and Cytokinins, each with its unique functions.



These hormones work together to coordinate vital processes such as seed germination, flowering, and responses to environmental cues, ensuring that plants adapt and thrive in their surroundings.

STRESS HORMONES

Stress hormones in plants are signaling molecules that play a vital role in helping plants respond and adapt to various environmental stresses. When a plant encounters stress, stress hormones increase, leading to physiological responses like stomatal closure to reduce water loss, the synthesis of stress-related proteins to enhance resilience, and altered root growth patterns to explore for water sources.



Ethylene plays a role in plant responses to various stresses, including mechanical stress, pathogen attack, and environmental stressors like drought and high salinity.

These stress hormones act as critical mediators, allowing plants to survive and thrive in challenging conditions by initiating protective mechanisms and enhancing their overall stress tolerance.

START. GROW. FINISH.

NEXTA™ biologicals are built on a simple but powerful philosophy: **START. GROW. FINISH.** This approach is designed to support your crop at every critical stage, from the moment the seed is planted, through vegetative growth, all the way to harvest. By supporting your crop throughout its lifecycle, NEXTA products help ensure that the yield potential you start with is the yield potential you finish with.

PRODUCTS	START	GROW	FINISH	FOCUS CROPS
NEXTA » STAND	Promote Germination	Promote Growth		Cereals Corn
NEXTA » SHIELD+	Crop Stress Management			Pulses
NEXTA » SHARP	Promote Germination	Promote Growth		Corn Cereals
NEXTA » SUPPLY		Nutrient Efficiency		Pulses Corn Cereals
NEXTA » SPARK			Heat Blast Protection	Canola Corn
NEXTA » SWOLE			Fill Pods, Heads and Ears	Canola Corn Pulses

NEXTA™ >> STAND

NEXTA STAND accelerates root development, promoting bigger and more robust plants that are more resilient to stress – increasing plant productivity and yield potential. Strategically formulated to ignite robust plant growth and optimize yield, NEXTA STAND increases the levels of naturally occurring hormones to improve essential plant functions to optimize the plant’s growth potential. NEXTA STAND is a CFIA registered yield stimulant and plant growth regulator.

Crops*:

Canola, **cereals, corn**, soybeans

Product Features and Benefits:

- Contains a patented formulation of four critical plant growth hormones – Cytokinin, Gibberellic acid (GA), and Auxins (IBA and IAA).
- The only biostimulant that contains four plant growth hormones – strategically formulated to enhance plant growth and development by stimulating cell division, cell differentiation and enlargement, nutrient uptake and nutrient utilization.
- Accelerates and increases root and shoot development, improving plant competitiveness to boost plant growth, maximize crop potential.
- Built with the highest quality ingredients, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility.

*see label for additional crop registrations

Ingredients:

Cytokinin, as kinetin	0.009%
Gibberellic acid	0.005%
Indole-3-butyric acid	0.005%
Indole-3-acetic acid	0.005%

Recommended Application Timing:



Start (Seed Treatment)
Grow (Foliar at herbicide timing)

Application rate:

Seed treatment rate: 65 mL / 100 lbs of seed
Foliar rate: 125 mL/ac – 250 mL/ac

Water Volume:

Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

Product size:

2 x 10 L case
1,000 L tote

NEXTA™ >> SHIELD+

NEXTA SHIELD+ enhances plant resilience and protects yield potential by supporting physical stress recovery. From the moment a plant germinates, it is challenged with abiotic stress, such as cold, heat, hail, excessive rain, frost, and drought. NEXTA SHIELD+ ensures the plant is more equipped to efficiently recover from stress and quickly resume growth rather than focus on recovery – leading to greater plant productivity and yield potential. NEXTA SHIELD+ is a CFIA registered yield stimulant and plant growth regulator.

Crops*:

Canola, cereals, dry beans, **lentils, peas, soybeans**

Product Features and Benefits:

- Enhances plant resilience and protects yield potential by employing three distinct modes of action to support physical stress recovery.
- Aids in the recovery of crop stress caused by cold, frost, herbicides, insects, and hail.
- Increases plant productivity by enabling the plant to quickly resume growth and spend less time recovering, resulting in less days lost during the growing season.
- Built with the highest quality ingredients, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility, and reliable shelf-stability.

*see label for additional crop registrations

**see label for specific crop recommendations

Ingredients:

Cytokinin, as kinetin	0.0075%
Nitrogen	3%
Soluble Potash	1 %
Cobalt	1 %
Molybdenum	1 %

Recommended Application Timing:



Start (Seed Treatment)
Grow (Foliar at herbicide timing, or 24-72 hours after physical damage or stress event)

Application rate:

Seed treatment rate: 120 mL/100 lbs of seed**
Foliar rate: 250 mL/ac up to 500 mL/ac following physical damage

Water Volume:

Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

Product size:

2 x 10 L case
1,000 L tote

NEXTA™ >> SHARP

NEXTA™ SHARP provides two essential growth-promoting plant hormones to optimize crop development and yield. NEXTA SHARP contains indole-butyric-acid (IBA) for fast, vigorous root growth and cytokinin for optimal vegetative and reproductive development. NEXTA SHARP is a CFIA registered yield stimulant and plant growth regulator.

Crops*:

Cereals, canola, **corn**, soybeans

Ingredients:

Cytokinin, as kinetin	0.15%
Indole-3-butyric acid	0.85%

Product Features and Benefits:

- Contains key ingredients to optimize season-long plant development, leading to higher yield.
- Enhances cell division and nutrient uptake to boost root growth, setting the stage for maximum yield.
- A CFIA-registered yield enhancer product, NEXTA™ SHARP enhances naturally occurring hormones within the plant to optimize genetic expression.

Recommended Application Timing:



Start (In-furrow)
Grow (Foliar at herbicide timing)

Application rate:

In-furrow or foliar rate: 65 mL/ac

Water Volume:

Ground: minimum 40 L/ac (10 US gal/ac)

Product size:

2 x 10 L case
1,000 L tote

*see label for additional crop registrations

NEXTA™ >> SUPPLY

NEXTA™ SUPPLY is a naturally occurring bacteria strain that colonizes the entire plant and enables conversion of atmospheric nitrogen (N²) into ammonium (NH⁴⁺) that can be metabolized by the crop. This unique conversion process supplies essential nitrogen to the crop when the existing in-ground nitrogen levels are not enough to maximize yield potential.

Crops*:

Cereals, canola, **corn**, **soybeans**

Ingredients:

Methylobacterium symbioticum

Product Features and Benefits:

- Maximizes crop potential by providing supplemental nitrogen, resulting in healthier and more resilient plants.
- Compliments and diversifies a conventional nitrogen fertilizer program by providing nitrogen at critical times during the plant's life cycle.
- Contains a natural bacteria, providing a sustainable source of nitrogen that reduces dependency of nitrogen uptake from the soil.

Recommended Application Timing:



Grow (Foliar at herbicide timing)
Canola, cereals, corn – 4 leaf stage until pre-senescence
Soybeans – 3 leaf stage until pre-senescence

Application rate:

Foliar rate: 135 g/ac

Water Volume:

Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

Product size:

2 x 5.39 kg case

*see label for additional crop registrations

NEXTA™ >> SPARK

NEXTA SPARK is designed to increase plant resilience and safeguard yield by proactively protecting crops from heat blast – reducing flower/kernel abortion and pod loss caused by heat stress. NEXTA SPARK supplements the plant with additional Cytokinin to boost cell growth – improving photosynthesis and preventing plant tissues from maturing too quickly. As a result, the plants sustain photosynthetic activity and maintain nutrient and water uptake for continued plant growth and optimized yield potential.

Crops*:

Canola, cereals, **corn**, soybeans

Ingredients:

Cytokinin, as kinetin 0.04%

Product Features and Benefits:

- Protects yield potential by reducing flower/kernel abortion during times of excess heat.
- Improves overall crop resilience by delaying premature senescence caused by heat stress.
- Built with the highest quality ingredients, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility.

Recommended Application Timing:



Finish (Foliar at fungicide timing)

Application rate:

Foliar rate: 500 mL/ac

Water Volume:

Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

Product size:

2 x 10 L case
1,000 L tote

*see label for additional crop registrations

NEXTA™ >> SWOLE

NEXTA SWOLE improves sugar distribution within the plant – promoting larger, more robust seeds and boosting flower production for increased yield potential. By enhancing naturally occurring hormone levels and providing key nutrients to the plant, NEXTA SWOLE accelerates the transport of sugars produced through photosynthesis in the leaves to essential growth areas. NEXTA SWOLE is a CFIA registered yield stimulant and plant growth regulator.

Crops*:

Canola, cereals, **corn**, lentils, peas, **soybeans**

Ingredients:

Cytokinin, as kinetin	0.003%
Boron	8%
Copper	0.2%
Molybdenum	0.004%
Monoethanolamine (MEA)	16%
Total Nitrogen	3%

Product Features and Benefits:

- Promotes uniform seed development by improving sugar distribution to developing seed, resulting in higher yield.
- Stimulates cell division and promotes flower development for increased yield potential.
- Built with the highest quality ingredients, resulting in guaranteed analysis of actives for consistent performance, and excellent tank mix flexibility.

Recommended Application Timing:



Finish (Foliar at fungicide timing)

Application rate:

Foliar rate: 500 mL – 1 L/acre

Water Volume:

Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

Product size:

2 x 10 L case
1,000 L tote

*see label for additional crop registrations

NEXTA™ >>



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