

NATURE'S  
TECHNOLOGY

# STACKED

## Create a powerful biological system.

QuickStart your canola or wheat crop with JumpStart® and QuickRoots® inoculants. Together, these products help improve nutrient and moisture uptake, phosphate availability, and help increase yield potential. JumpStart is an inoculant containing *Penicillium bilaiae*, which helps release bound mineral forms of soil and fertilizer phosphate, making it more readily available for the plant to use. QuickRoots technology contains the biologicals *Bacillus amyloliquefaciens* and *Trichoderma virens* that help increase availability and uptake of nitrogen, phosphate, and potassium.

JumpStart®  
+  
QuickRoots®

## Canola

### JumpStart

- Enhanced phosphate availability results in increased root growth and increased leaf surface area.
- As a result, canola inoculated with JumpStart may:
  - Flower earlier
  - Increase the number of pods and pod-bearing branches
  - Have earlier, more uniform maturity
- Ultimately, you can help your canola crop reach its full potential.

### QuickRoots

- By growing directly on your crop's roots, QuickRoots works to improve nutrient availability and uptake.
- Improved phosphate availability can lead to expanded root volume, which enhances nitrogen and potassium uptake.



Untreated

JumpStart® + QuickRoots

2018 BIOADVANTAGE TRIALS

DATE: June 8, 2018

CROP: Canola

LOCATION: Rush Lake, SK



### JumpStart + QuickRoots VS. Untreated

Canola	Untreated	45.6 (bu/ac)
	JumpStart + QuickRoots	48.5 (bu/ac)

Source: Results were collected from 32 farmer-conducted, large-scale, side-by-side BioAdvantage Trials conducted in Alberta, Manitoba, Ontario and Saskatchewan in 2017 and 2018.

### JumpStart + QuickRoots VS. JumpStart

Canola	JumpStart	46.7 (bu/ac)
	JumpStart + QuickRoots	48.2 (bu/ac)

Source: Results were collected from 54 farmer-conducted, large-scale, side-by-side BioAdvantage Trials conducted in Alberta, Manitoba and Saskatchewan in 2017 and 2018.

72% win rate

# Wheat

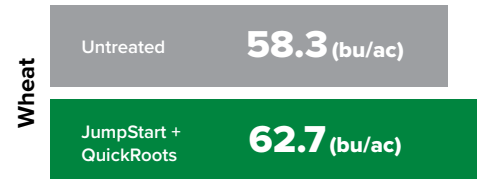
## JumpStart

- Cool soils, common under direct seeding or early seeding conditions means phosphate is less available to the crops.
- JumpStart is active in cool soil temperatures making soil phosphate available, helping to enhance early-season vigour.
- *Penicillium bilaiae*, the active ingredient in JumpStart, does not eliminate the need for phosphate fertilizer, but provides crops access to more phosphate for higher yield potential.

## QuickRoots

- QuickRoots inoculant can improve nutrient availability and uptake.
- The microbial inoculant performs in a variety of soil conditions and types (including soils low in phosphate availability).
- This can enable optimal plant growth and increased yield potential.

## JumpStart + QuickRoots VS. Untreated



Source: Results were collected from 17 farmer-conducted, large-scale, side-by-side BioAdvantage Trials conducted in Alberta, Ontario and Saskatchewan in 2017 and 2018.

**+4.4** (bu/ac)

**82%** win rate

For more information contact Acceleron BioAg™ toll-free at **1-800-667-4944** or visit [acceleronbioag.ca](http://acceleronbioag.ca).

**ALWAYS READ AND FOLLOW LABEL DIRECTIONS.** 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. Acceleron BioAg™, JumpStart® and QuickRoots® are trademarks of Bayer Group, Monsanto Canada ULC licensee. ©2018 Bayer Group. All rights reserved.

