



# Canola

## BioBoost® Liquid

### Growth Promoter for Canola

BioBoost® Liquid for canola is an innovative plant growth promoting rhizobacteria (PGPR). The active ingredient is the microorganism *Delftia acidovorans*, which is active in the soil and rapidly colonizes the root zone of a canola plant. It is applied as post-emergent spray at the 0-6 leaf stage. For ease of application, BioBoost Liquid can be tank mixed and applied with the first post-emergent application. BioBoost Liquid had an average yield response of 2 bu/acre (or 5% yield advantage) in 126 trials conducted between 2007 and 2013.

### How it works

*Delftia acidovorans* is attracted to root exudates and will move toward growing roots and colonize the root zone. The bacteria positively impacts plant root growth; this ultimately supports higher yields, depending upon environmental and soil conditions.

### Modes of Action

*Delftia acidovorans* works by:

- Stimulating root and root hair development, helping the plant access more water and nutrients in limiting environmental conditions
- Aggressively colonizes roots and out-competes other soil bacteria and fungi
- Making more sulphur available to the plant. *Delftia acidovorans* in combination with sulphur shows an average yield increase of 9.66% over sulphur alone.

### Proven 5% Yield Advantage Over 126 Trials

#### FEATURES

- Active Ingredient:  $1 \times 10^8$  viable *Delftia acidovorans* per ml
- Yield Response: Average 2 bu/ac (5%)<sup>1</sup>
- Application: Post-emergent spray (0 to 6 leaf stage)
- Package Size:
  - 10.4 litre bladder/case (2.75 US gallon)
  - 45 cases per pallet
- Area treated/case: 16.2 hectares (40 acres)
- Ease of use: One package to open and add to the tank
- Refer to the website for the latest compatibility testing

*Always read and follow label instructions*

<sup>1</sup> Average yield response on 126 trials (replicated small plot and strip trials) conducted from 2007 to 2013.

<sup>2</sup> Based on BioBoost trials, no impact on weed control was noted when tank mixed with recommended herbicides.

Refer to the website for a complete list of compatible herbicides, or contact your Lallemand Plant Care representative for more information

| Efficacy Testing as an Elemental Sulphur Oxidizer   | 8 Site Average* |
|---|-----------------|
| Control   | 100.00          |
| Control + Elemental Sulphur   | 107.75          |
| Control + Sulphate Sulphur  | 112.51          |
| Control + BioBoost  | 113.92          |
| Control + Elemental Sulphur + BioBoost  | 117.41          |
| Control + Sulphate Sulphur + BioBoost   | 117.45          |
| Difference between Control + Elemental Sulphur and Control + Elemental Sulphur + BioBoost | 9.66            |

\* 8 test sites include: Dauphin, Neepawa, La Salle, Elm Creek, MacGregor, Millet, Fort Saskatchewan

## Application Rate

| Crop   | Rate/Acre          |                       | Rate/Hectare         |                       |
|--------|--------------------|-----------------------|----------------------|-----------------------|
|        | Active             | Minimum Water         | Active               | Minimum Water         |
| Canola | 260 ml (8.8 fl oz) | 38.5 L<br>10.0 US gal | 643 ml (21.75 fl oz) | 95.0 L<br>25.0 US gal |

## Application Notes

- Achieving good contact of *Delftia acidovorans* with soil is essential to the performance of the product. Applying product at the 0 to 6 leaf stage allows good soil contact to be achieved.
- Apply BioBoost Liquid in the morning and/or evening in cooler temperatures. Do not apply BioBoost Liquid in hot, dry conditions.
- Recommended water rates assist *Delftia acidovorans* in entering the soil. Reducing the water rate is not recommended.
- If tank mixing BioBoost Liquid with a recommended herbicide, add the bacterial solution last and ensure it is applied to the appropriate herbicide tolerant canola system

## About Lallemand Plant Care

Lallemand Plant Care (LPC) specializes in employing microorganisms including, but not limited to, yeast, bacteria, fungi and plant derivatives for biocontrol (i.e., controlling of harmful insects of microorganisms), biostimulation (i.e., eliciting natural responses) and biofertilization (i.e., enhancing plant nutrition).

Using a “field-led, science-supported” approach, LPC works closely with clients to deliver the right products for the right applications that benefit crops and create better customer experiences.