



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. Based on the trials conducted by NDSU, University of Minnesota, retailers and growers to-date, BioBoost Liquid has boosted canola yields by average of 6.3%.

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 sulfur available to the plant. *Delftia acidovorans* in combination with elemental sulfur shows an average yield increase of 9.66% over sulfur alone.

Proven 6.3% Yield Advantage

FEATURES

- Active Ingredient: 1x10⁹ viable *Delftia acidovorans* per ml
- Yield Response: Avg. 130 lbs/ac (6.3%)¹
- Application: Post-emergent spray (0 to 6 leaf stage)
- Package Size:
 - 2.75 US gallon bladder/case (10.4 liters)
 - 45 cases per pallet
- Area treated/case: 40 acres (16.2 hectares)
- 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

¹ Average yield response on trials conducted from 2007 to 2010.

² 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 Sulfur Oxidizer	8 Site Average*
Control	100.00
Control + Elemental Sulfur	107.75
Control + Sulfate Sulfur	112.51
Control + BioBoost	113.92
Control + Elemental Sulfur + BioBoost	117.41
Control + Sulfate Sulfur + BioBoost	117.45
Difference between Control + Elemental Sulfur and Control + Elemental Sulfur + 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	8.8 fl oz (260 ml)	10.0 US gal 38.5 L	21.75 fl oz (643 ml)	25.0 US gal 95.0 L

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.