GROWTH PROMOTING RHIZOBACTERIA FOR CANOLA

BioBoost® Liquid for canola is an innovative plant growth promoting rhizobacteria (PGPR). The active ingredient is the microorganism *Delftia acidovorans*. This PGPR aggressively becomes active in the soil and rapidly colonizes. For ease of application, BioBoost® Liquid can be tank mixed and applied with the first pre-emerge to six leaf post-emerge application window. Based on the trials conducted by NDSU, University of Minnesota, retailers and growers to-date, BioBoost® Liquid has boosted canola yields by an average of 5%.

ADVANTAGES

The active ingredient in BioBoost® Liquid, *Delftia acidovorans*, has several beneficial modes of action which include:

- Stimulating root and root hair development, helping the plant access more water and nutrients.
- Colonizing roots to out-compete other soil bacteria and fungi.
- Increasing the amount of sulfur available to the plant.

Figure 2: Increased root hair number on canola treated with BioBoost® Liquid (right) versus the control (left). Increased primary root length also observed with BioBoost® Liquid (not shown).

Figure 3: *Delftia acidovorans* colonizing canola roots treated with BioBoost® Liquid (right) versus the control (left).
APPLICATION TIPS

- Achieving good contact of *Delftia acidovorans* with soil is essential to the performance of the product.
- Applying *BioBoost*® Liquid at the 0-6 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 volumes 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.
- Consult your Lallemand Plant Care Representative to ensure *BioBoost*® Liquid is applied to the appropriate herbicide tolerant canola system.

CROP | RATE/ACRE | RATE/HECTARE
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 | ACTIVE | MINIMUM WATER | ACTIVE | MINIMUM WATER
Canola | 8.8 fl oz (260 ml) | 5.0 US gal (19 L) | 21.75 fl oz (643 ml) | 12.5 US gal (47 L)

Trials conducted at NDSU Langdon & Carrington Research Center. *BioBoost*® Liquid was tank mixed with glyphosate and sprayed at 3 leaf stage.

About Lallemand Plant Care

Since the beginning of the 20th Century, LALLEMAND has been an expert in yeast and bacteria manufacturing. The family-owned company is now a global leader in the development, production, and marketing of microorganisms for various agri-food industries.

Using sound science and know-how, LALMEND PLANT CARE (LPC) works closely with clients to deliver the right technology, in the right formulation, for the right application. LPC is committed to solving grower challenges, significantly improving yield and crop vitality.