



## CHARACTERISTICS

### Active Ingredient

1 x 10<sup>8</sup> *Delftia acidovorans* per ml

### Package Sizes

2.75 US gallon bladder/case (45 cases per pallet)

### Application Rate

- 8.8 fl oz per acre
- Can be tank mixed with herbicide (pre-emergence - 6 leaf stage)

Always read and follow label instructions

## GROWTH PROMOTING RHIZOBACTERIA FOR CANOLA

BioBoost<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> Liquid has boosted canola yields by an average of 5%.

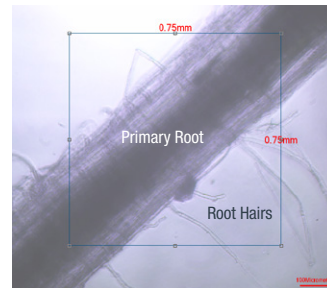
## ADVANTAGES

The active ingredient in BioBoost<sup>®</sup> 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.



Control



BioBoost<sup>®</sup> Liquid

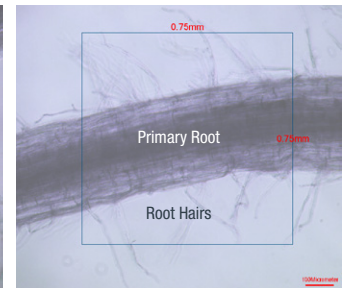
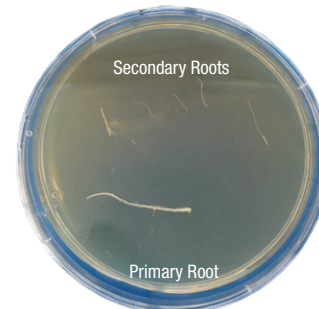


Figure 2: Increased root hair number on canola treated with BioBoost<sup>®</sup> Liquid (right) versus the control (left). Increased primary root length also observed with BioBoost<sup>®</sup> Liquid (not shown).

Control



BioBoost<sup>®</sup> Liquid

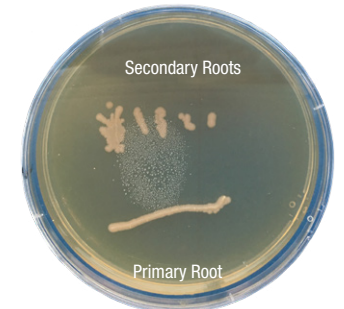
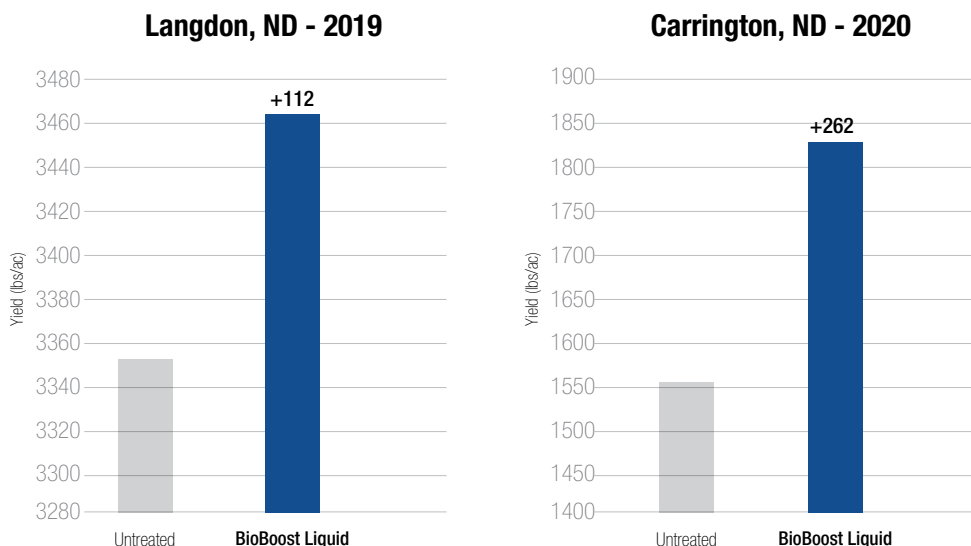


Figure 3: *Delftia acidovorans* colonizing canola roots treated with BioBoost<sup>®</sup> Liquid (right) versus the control (left).

## TRIAL RESULTS



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

## APPLICATION TIPS

CROP	RATE/ACRE		RATE/HECTARE	
	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

- Achieving good contact of *Delftia acidovorans* with soil is essential to the performance of the product.
- Applying **BioBoost<sup>®</sup> Liquid** at the 0-6 leaf stage allows good soil contact to be achieved.
- Apply **BioBoost<sup>®</sup> Liquid** in the morning and/or evening in cooler temperatures. Do NOT apply **BioBoost<sup>®</sup> 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<sup>®</sup> Liquid** with a recommended herbicide, add the bacterial solution last.
- Consult your Lallemand Plant Care Representative to ensure **BioBoost<sup>®</sup> Liquid** is applied to the appropriate herbicide tolerant canola system.

## 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, LALLEMAND 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.

**Proud Contributor to COVAX-Unicef, #sharethehealth.**

The pandemic doesn't end for anyone, until it ends for everyone.  
<https://www.lallemandplantcare.com/en/usa/whats-new/we-support-the-covax-unicef-covid-19-vaccination-campaign/>



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