

XiteBio® Yield+ for Canola FAQs

What is XiteBio® Yield+ for Canola?

XiteBio® Yield+ is a ready to use liquid biological for canola that promotes healthier plants and better yields. It is a naturally occurring Plant Growth Promoting Rhizobacteria (PGPR) and the active ingredient is a unique patented strain of *Bacillus firmus*.

How does XiteBio® Yield+ work?

XiteBio® Yield+ introduces optimum numbers of a patented PGPR (Plant Growth Promoting Rhizobacteria) into the soil. This PGPR is a vigorous colonizer of plant roots with distinct phosphorous (P) solubilizing characteristics that works throughout the growing season to help maximize plant growth and cope with stress conditions.

Why should I use PGPR?

PGPR enhance crop performance throughout the season, resulting in healthier plants and better yields.

Has XiteBio® Yield+ been previously used by farmers?

XiteBio® Yield+ has been used since 2012 by farmers in North Dakota, Montana and Minnesota. Farmers who have used XiteBio® Yield+ report, on average, a 3-6 bu/ac yield increase.

What yield increase can I expect with XiteBio® Yield+?

In 12 grower field trials in the US over a 5 year period (2012-2016), growers have seen an average yield increase of 8%.

How is XiteBio® Yield+ different from conventional inoculants?

Conventional inoculants contain nitrogen-fixing bacteria (Rhizobium) that create root nodules and form a symbiotic relationship with the plant. XiteBio® Yield+ biologicals contain Plant Growth Promoting Rhizobacteria (PGPR) that are attracted to and colonize the root surface. The PGPR stimulate plant development by solubilizing phosphorus and boosting overall plant growth and yield.

How do I apply XiteBio® Yield+?

XiteBio® Yield+ is a liquid biological applied early post emergence at the 0-6 leaf stage with the first post-emergent herbicide application. Alternatively, XiteBio® Yield+ can be applied in-furrow. Always read and follow label recommendations.

Can I apply XiteBio® Yield+ as part of the tank-mix with herbicides?

Yes, XiteBio® Yield+ is tank-mixable and compatible with select post-emergent herbicides including Glyphosate, Roundup®, Liberty® and select Clearfield® technology herbicides. Please consult XiteBio compatibility charts for specific tank-mix compatibility information before application.

Can XiteBio® Yield+ be applied on-seed prior to planting?

XiteBio® Yield+ is currently formulated to be applied in-furrow or early post-emergence. Yield+ cannot be applied on-seed, however future developments may allow for additional application methods.



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Can I apply XiteBio® Yield+ with my pre-seed glyphosate burn off?

XiteBio® Yield+ is not recommended for application with a pre-seed glyphosate burn off. The active ingredient needs to be either placed in-furrow in close proximity to the seed or applied early post emergence after the canola has germinated.

Is the rate the same for early post emergent application and in-furrow application?

The application rate for XiteBio® Yield+ is the same whether applied in the furrow or early post emergent. The rate is 250 ml per acre in either situation.

Can I apply XiteBio® Yield+ in any field condition?

The target for the Yield+ active is the ground and it will move through the soil to the plant root zone. Any excess ground cover (straw, plant growth) may prevent the active from reaching the soil and may reduce effectiveness of the application. Further investigations are under way to understand the effects of excess ground cover and currently we suggest the product should be applied in field conditions of 25% ground cover or less and no later than the 6 leaf stage.

I would like to use your product but have excessive ground cover because of trash from the previous crop. What are my options?

XiteBio has an in-furrow application registered for use where the product can be applied in the seed furrow with select liquid fertilizers or in non-chlorinated water. This is an effective alternate application method in higher trash soils.

Will manure application or soils with high organic matter affect the performance of the product?

Application of manure may reduce the effectiveness of XiteBio® Yield+ and we recommend it not be used on soils that have received a recent application of manure. Soils with high organic matter (i.e. 14%) may also see reduced effects.

Will the application of an in-furrow phosphorus starter fertilizer impact the effectiveness of XiteBio® Yield+ active ingredient?

Phosphorus solubilisation is only one of multiple modes of action. It also increases rooting mass which impacts uptake of all nutrients and assists the plant to cope with stress conditions. Performance may vary from field to field depending on the individual soil tests or high levels of phosphorous whether present through the application of manure or other means.

How does the biological get to the roots if it is sprayed on the crop?

The target is the soil surface rather than the crop itself. The PGPR bacteria in the biological are able to swim through the macro and micro pores within the soil. They are attracted to the roots by compounds exuded by the crop roots and sloughed off root tissues.

Are XiteBio PGPRs available for other crops?

XiteBio® Yield+ technology is also available for legumes (XiteBio® Yield+ for Legumes) and corn, wheat and barley (XiteBio® Yield+ for Corn, Wheat & Barley).



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