



XiteBio[®] SoyRhizo

Healthier Plants. Better Yields.

XiteBio[®]

Thriving Through Innovation

XiteBio[®] SoyRhizo

For Soybean

XiteBio[®] SoyRhizo is a revolutionary new liquid inoculant for soybean that not only introduces optimum numbers of *Bradyrhizobium japonicum* into the soil, but also invigorates the natural soil microflora, including the native rhizobia, and creates synergy between them. It features Advanced



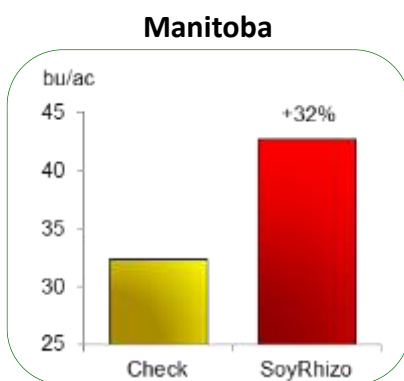
Growth Promoting Technology (AGPT) with a low volume versatile liquid formulation that can be applied on-seed or in-furrow. SoyRhizo encourages greater root nodulation and boosts higher nitrogen fixation, resulting in healthier plants and better yields. It

enhances overall plant performance and results in an average yield increase of 9 bu/ac (21%) in 2011 field trials.

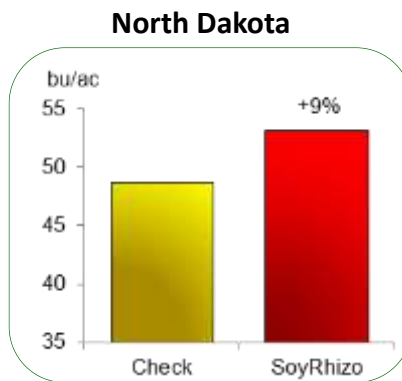
Features of SoyRhizo:

- **Active Ingredient:**
2×10⁹ *Bradyrhizobium japonicum*
- **Formulation:**
Ready-to-Use Liquid
- **For use on:**
Soybean
- **Application:**
On-seed or In-furrow
- **Package size:**
2.5 L (4x50 Unit Case)
10 L (1x200 Unit Case)
- **Application Rate:**
On-seed:
2.0 fl oz/60 lbs (60 ml/27 kg)
In-furrow:
0.5 fl oz/1000ft row (15ml/304m row)
- **Seed Treatment Compatibility:**
Compatible with most popular soybean seed treatments
- **Yield Increase:**
As high as 26 bu/ac
9 bu/ac on average in 2011 trials

Average Soybean Yield in Field Trials

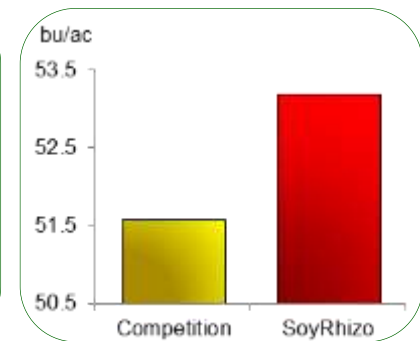


Source: XiteBio Technologies



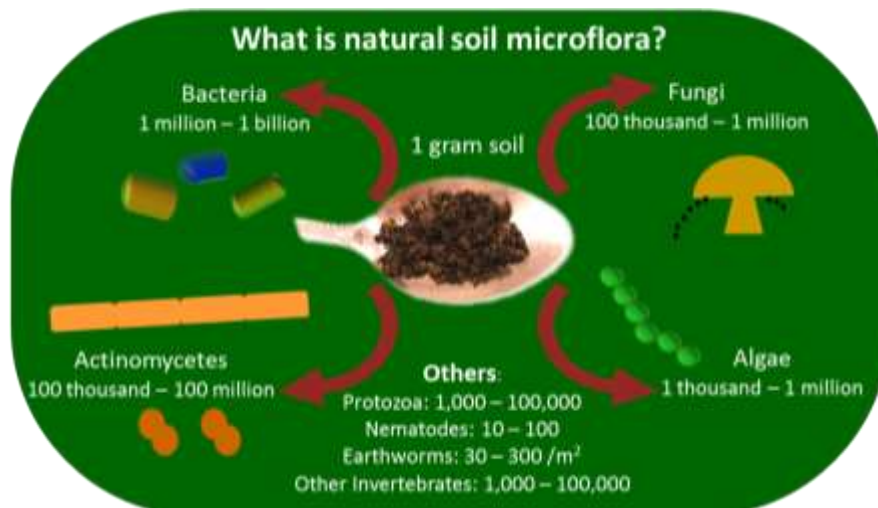
Source: North Dakota State University

SoyRhizo beats the competition



Source: North Dakota State University





XiteBio[®] SoyRhizo: How it Works

SoyRhizo is a unique ready-to-use liquid inoculant for soybean with Advanced Growth Promoting Technology (AGPT). The AGPT not only introduces optimum numbers of *Bradyrhizobia* into the soil, but also invigorates the natural soil microflora (see example diagram above), including the native rhizobia, and creates synergy between them. Different soil types support different microflora, many of which are beneficial to crops. The native microbes (bacteria, fungi, algae, etc.) living in the soil are stimulated by AGPT and all these organisms can then confer their beneficial impacts upon the crop. This is what makes AGPT a revolutionary technology - creating synergy between Bradyrhizobial inoculant and the invigorated native microflora.

SoyRhizo invigorates the native rhizobium population to work efficiently with the introduced *Bradyrhizobium* population. Because of its versatility it works under different soil and environmental conditions. This inoculant enhances the microbial activity, results in improved soil health and ensures that crops are healthier, more vigorous and higher yielding.



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About Rhizobium

Nitrogen (N) fixation is one of the most important components for obtaining higher yields in legume crops. Rhizobium species are responsible for converting atmospheric N into plant usable form, i.e., N-fixation. Plant's ability to harbour rhizobia bacteria in root nodules is the most outstanding characteristic of legumes. Plants identify the specific compatible rhizobia through chemical signals. That's why different legumes attract different species of rhizobia, e.g., soybean nodules contain *Bradyrhizobium japonicum*. Generally, it takes about 4 weeks for nodules to fully develop and N-fixation begins shortly thereafter. Being capable of supplying their own N, legumes are not only able to produce greater yields without additional N, but also help succeeding crop in the rotation.

Frequently Asked Questions

I am growing soybean in my field the first time, do I need to inoculate?

Yes, inoculants ensure your crop is fixing nitrogen and reaching its full potential for higher yields.

How should I check for nitrogen fixation?

Approximately 4-6 weeks after planting, carefully dig out some nodules adhered to the roots of the plant. Slice them open and they should be pink in colour, indicating nitrogen fixation.

Can soil acidity kill *Bradyrhizobium*?

Yes, *Bradyrhizobium* may die rapidly in soil pH below 5.5.

My soil has high nitrogen levels, should I inoculate?

If soil nitrogen levels are high, plants will use this source first, before fixing its own. Application of nitrogen above 55 lbs/ac inhibits nodule formation.

My field has been flooded for more than 3 days, do I need to inoculate?

Yes, anaerobic conditions stress and reduce *Bradyrhizobia* population. SoyRhizo will provide fresh, healthy *Bradyrhizobia* resulting in healthier plants, better yields.

Benefits of SoyRhizo:

- **Worry Free:**
SoyRhizo is free of GMO & contaminants
- **Convenience:**
Ready-to-use liquid. No mixing with other liquids or powders required
- **Multi Action:**
Growers receive the advantages of efficient introduced *Bradyrhizobium* and the synergy with invigorated native microflora
- **Compatibility:**
Compatible with most seed treatment chemicals, so crop can be planted earlier in the season to maximize yield potential
- **Choice of Seed Treatments:**
 - Acceleron
 - ApronMaxx RTA
 - Cruiser
 - Rancona
 - Trilex 5000
 - Vitaflo 280 & more
 - Allegiance FL
 - Apron XL
 - Cruiser Maxx Beans
 - Senator
 - Trilex 6000
- **On-Seed Life:**
Longer on-seed life reduces the risk of unforeseen weather delays
- **Healthier Plants:**
Healthier plants with better root systems, better equipped to deal with environmental stresses
- **Return on Investment:**
Higher and more consistent yields ensure a better return on investment

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For more information, visit www.xitebio.ca

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