# WITH AGTIV® UNTREATED

## AGTIV BIOLOGICAL ACTIVE INGREDIENTS

For nearly 100 years, Premier Tech has been growing along with producers. Being a world leader in the industrial production of mycorrhizal inoculants has inspired us to go further in our search for natural technologies. Since then, we have introduced the benefits of Bacillus, rhizobium, and Serendipita to the agricultural market. Furthermore, we have combined these powerful technologies to improve the quality and the yield of crops for the benefit of our clients.



#### **MYCORRHIZAE**

PTB297 Technology, Rhizophagus irregularis (formerly known as Glomus intraradices)

Mycorrhizae are beneficial associations between a mycorrhizal fungus and roots. The mycorrhizal spores germinate in the soil and produce filaments (hyphae) which enter into root cells. This association allows the formation of an intra and extra-radical network of filaments that explore the soil and access more nutrients and water, and transfer them to the plant.

- **♥** EXPAND ROOT SYSTEM GROWTH
- **♥** ENHANCE NUTRIENT & WATER UPTAKE
- **▼ INCREASE TOLERANCE TO STRESSES**
- **▼** IMPROVE SOIL **STRUCTURE**



### **RHIZOBIUM**

PTB160 Technology (pulses), Rhizobium leguminosarum biovar viciae

PTB162 Technology (soybean), Bradyrhizobium japonicum

Mesorhizobium ciceri (chickpea)

Rhizobium bacteria live and thrive in symbiosis in root nodules produced by the plant. They are responsible for fixing the atmospheric nitrogen and making it available for the plant.

MAKE IT AVAILABLE TO THE PLANT



В

### **BACILLUS**

PTB180 Technology, Bacillus pumilus

Bacillus is a bacteria that provides a healthy root zone which leads to better yields. As a root colonizer, it stimulates the plant to grow more efficiently. Selected for its beneficial action of growth stimulation.



#### **SERENDIPITA**

PTB299 Technology, Serendipita indica (formerly known as Piriformospora indica)

The beneficial fungus Serendipita indica, a natural microorganism, forms an association with roots of many plants such as canola and cereals. It induces some of the plant gene expression and promotes phytohormone production.

- **✓** IMPROVES ROOTING **ENVIRONMENT & PLANT ESTABLISHMENT** 
  - **♥** INCREASES PLANT **VIGOR & PERFORMANCE**
- **✓** MITIGATES ABIOTIC **STRESSES**
- **▼ INCREASES CHLOROPHYLL** CONTENT
- **BETTER PLANT ESTABLISHMENT**, **GROWTH AND YIELD**









