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Since entering the agriculture market 15 years ago, we are constantly widening our AGTIV® inoculant offering to suit and benefit more crops.

While staying true to the AGTIV® brand's three pillars:

NATURE, SCIENCE and PERFORMANCE, we are introducing new product names reflecting the actions of our inoculants for plants.



AGTIV

DESIGNED BY NATURE.
PERFECTED BY SCIENCE.

Born from **nature** and perfected by **science**, AGTIV® is an innovative technology brand made of high-quality and proven natural active ingredients that deliver superior **performance** for agricultural producers.

Discover more at

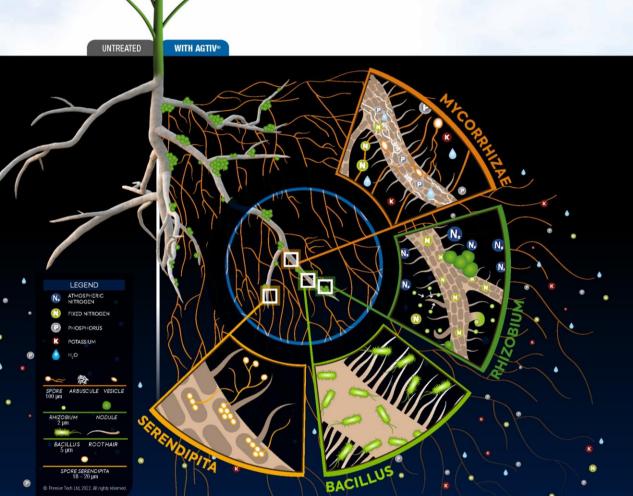
PTAGTIV.COM/brand

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.

Learn more at

PTAGTIV.COM/en/technologies





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.

FIX NITROGEN & MAKE IT AVAILABLE TO THE PLANT

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**







BENEFITS FOR FIELD CROPS

AGTIV[®] **REACH™** creates the expansion of the root network by hyphae to reach further and uptake more nutrients and water, increasing resistance to stresses. **AGTIV**[®] **REACH™** ensures your plants are **stronger**, **healthier** and **more vigorous**.







EFFECTIVE ON FIELD CROPS



DRY BEANS





FORAGES











AGTIV® REACH™







AGTIV® REACH™ P (previously named AGTIV® FIELD CROPS - O • Powder, AGTIV® FORAGES • Powder & AGTIV® SPECIALTY CROPS • Powder) F: Powder (peat)

S: Case of 4 x 800 g (4 x 1.75 lb) pails

C: Cereals, flax & dry beans: 32 ha (80 acres) per case Alfalfa, mix forages & grass: 16 ha (40 acres) per case



F: Granules (peat)

S: 6 kg (13.2 lb) pail – 18.2 kg (40 lb) bag – 364 kg (800 lb) tote bag

C: Cereals, flax & dry beans: Bag: 4 ha (10 acres) - Tote bag: 80 ha (200 acres) Alfalfa, mix forages & grass: Bag: 45 kg of seeds (99 lb) - Tote bag: 720 kg of seeds (1584 lb)



F: Liquid (spores in suspension)

S: Case of 2 x 950 ml (2 x 32 fl. oz) bottles

* C: Cereals, flax & beans: 16 ha (40 acres) per case



M



















S: Size

AGTIV® REACH™



ON-FARM MIXING WITH SEEDS

AGTIV® REACH™ P



ACTIVE INGREDIENT:

MYCORRHIZAE - PTB297 Technology Rhizophagus irregularis: 8000 viable spores/g

INERT INGREDIENT: Peat

PARTICLE SIZE: < 1 mm (18 mesh) BULK DENSITY: 400 g/L (1 lb/US dry qt)

SIZE	COVERS	CODE
4 x 800 g (4 x 1.75 lb) – pails	Cereals, flax & dry beans: 32 ha (80 acres) Alfalfa, mix forages & grass: 16 ha (40 acres)	712324

DIRECTIONS FOR USE

Mix evenly with seeds at the bottom of the grain auger while filling drill, or directly in the drill box. Ensure uniform seed coverage is obtained.

Cereals, flax & dry beans: apply at 100 g/ha (40 g or 1.4 oz/acre).

Alfalfa, mix forages & grass: apply at 200 g/ha (80 g or 2.8 oz/acre).

Refer to the list of compatible pesticides at PTAGTIV.COM/en/compatibility.

GRANULAR IN-FURROW

AGTIV® REACH™ G



ACTIVE INGREDIENT:



MYCORRHIZAE - PTB297 Technology Rhizophagus irregularis: 178 viable spores/g

INERT INGREDIENT: Peat

PARTICLE SIZE: 0.5 mm to 2.5 mm (8 - 30 mesh)

BULK DENSITY: 600 g/L (37.4 lb/ft³)

SIZE	COVERS	CODE
18.2 kg (40 lb) - bag	4 ha (10 acres)	712101
364 kg (800 lb) - tote bag	80 ha (200 acres)	712102

DIRECTIONS FOR USE

Apply in the seed row at a rate of 4.5 kg/ha (4 lb/acre).

LIQUID FOR IN-FURROW

AGTIV® REACH™ L



ACTIVE INGREDIENT:



MYCORRHIZAE - PTB297 Technology Rhizophagus irregularis: 6400 viable spores/g

INERT INGREDIENT: Water

PARTICLE SIZE: < 0.2 mm (70 mesh)

Contains non-soluble particles

SIZE	COVERS (1 case)	CODE (case)
2 x 950 ml (2 x 32 fl. oz) - bottles	16 ha (40 acres)	712204

DIRECTIONS FOR USE

One 950 ml bottle covers 8 ha (20 acres). Dilute the product in the required volume of clean, non-chlorinated water, according on the product label. Shake the bottle well before use and maintain a constant agitation in the tank during application to avoid settling and clogging. Apply directly in the seed row.

LIQUID INJECTION: To apply using the AGTIV® Liquid Injection Kit, prepare the product mixture and adjust the Dosatron® injection rate following the application chart and video at PTAGTIV.COM/en/liquid-injection-kit. If the mixture does not contain pesticides or fertilizers, it can be emptied, refrigerated and used within

TANK MIX: Refer to PTAGTIV.COM/en/REACH-L for application details.



YIELD INCREASE







AGTIV® REACH™ COMPATIBILITY

Single action mycorrhizae products **REACH** into the soil and help uptake more nutrients and water.

Mycorrhizae inoculant is compatible with most pesticides and liquid fertilizers.

CLICK BELOW FOR ALL DETAILS

PESTICIDES

LIQUID FERTILIZER IN-FURROW



PROGRAM

AGTIV®

AGTIV® LIQUID INJECTION KIT

- The AGTIV[®] Liquid Injection Kit is designed to apply the AGTIV[®] liquid products.
- The kit must be installed on the existing in-furrow liquid system of the planter as shown in the application videos.
- The mycorrhizae must be injected directly in the furrow close to the seeds.
- GOAL: To facilitate the use and application of the AGTIV[®]
 with maximum accuracy and without affecting the
 mycorrhizae spores and in-furrow equipment.





ONLINE TOOLS













Safety data sheets, organic certificates



