

The logo for AGTIV, featuring the word "AGTIV" in a bold, blue, sans-serif font. A registered trademark symbol (®) is located at the bottom right of the letter "V".

# AGTIV<sup>®</sup>

A dark blue horizontal banner with the text "FIELD CROPS | GUIDE 2023" in white, bold, sans-serif capital letters. The background of the entire image is a split landscape: the left side shows a golden wheat field, and the right side shows a field of purple flowers under a blue sky with white clouds.

**FIELD CROPS | GUIDE 2023**



# AGTIV<sup>®</sup>

**DESIGNED BY NATURE. PERFECTED BY SCIENCE.**

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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® FUEL**  
Single action **rhizobium** products FUEL legumes by fixing nitrogen for better growth.

**AGTIV® ENRICH**  
Dual action **rhizobium** and **Bacillus** collaborate to ENRICH the plant's nitrogen fixation with a healthy root system.

**AGTIV® IGNITE**  
Single action **Serendipita** products IGNITE plant growth and chlorophyll content for better yields.

**AGTIV® THRIVE**  
Dual action **mycorrhizae** and **rhizobium** products make plants THRIVE by increasing nutrient uptake.

**AGTIV® STIMULATE**  
Single action **Bacillus** products STIMULATE the plant to grow more efficiently with a healthy root zone.

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

# 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

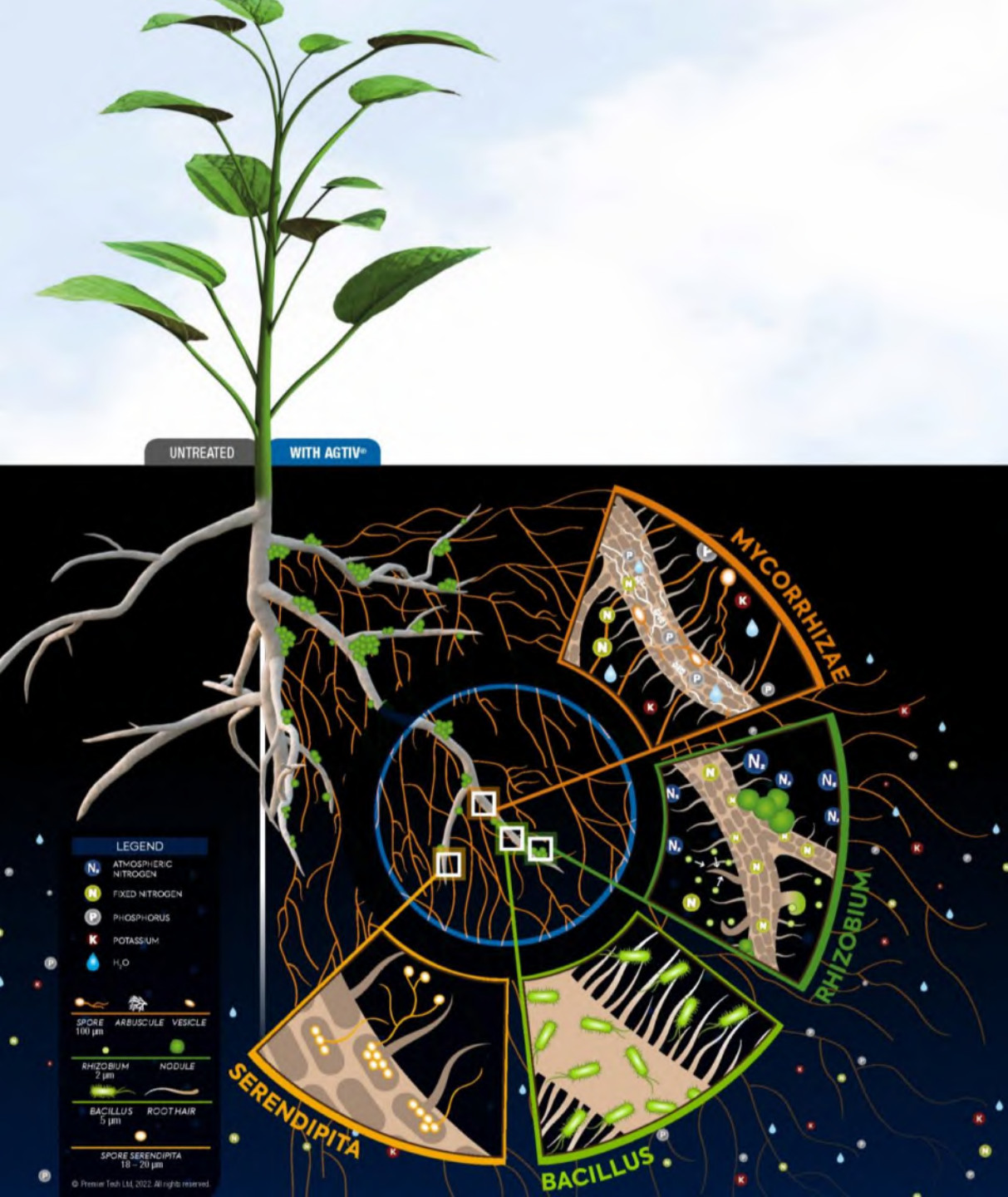
[PTAGTIV.COM/brand](https://PTAGTIV.COM/brand)



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](https://ptagtiv.com/en/technologies)



## M

### 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

## R

### 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

## B

### 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.

- IMPROVES ROOTING ENVIRONMENT & PLANT ESTABLISHMENT
- INCREASES PLANT VIGOR & PERFORMANCE

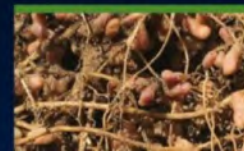
## S

### 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.**

- 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

# AGTIV®

## DRY BEANS

Ontario (Canada)



Ontario (Canada)



## FORAGES

Quebec (Canada)



Quebec (Canada)



Quebec (Canada)



Quebec (Canada)





# AGTIV® REACH™

# AGTIV®



## AGTIV® REACH™ P (previously named AGTIV® FIELD CROPS – O • Powder, AGTIV® FIELD CROPS • 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

| ACTIVE<br>INGREDIENT(S) | ORGANIC | APPLICATION MODE      |                      |                     |                   | FORMULATION |
|-------------------------|---------|-----------------------|----------------------|---------------------|-------------------|-------------|
|                         |         | GRANULAR<br>IN-FURROW | MIXING<br>WITH SEEDS | LIQUID<br>IN-FURROW | LIQUID<br>ON SEED |             |
| M                       | ✓       | ●                     |                      |                     |                   | ●●●●●       |

## AGTIV® REACH™ G (previously named AGTIV® FIELD CROPS • Granular & AGTIV® SPECIALTY CROPS • Granular)

**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)**

| ACTIVE<br>INGREDIENT(S) | ORGANIC | GRANULAR<br>IN-FURROW | MIXING<br>WITH SEEDS | LIQUID<br>IN-FURROW | LIQUID<br>ON SEED | FORMULATION |
|-------------------------|---------|-----------------------|----------------------|---------------------|-------------------|-------------|
| M                       | *       | ●                     |                      |                     |                   | ●●●         |

## AGTIV® REACH™ L (previously named AGTIV® FIELD CROPS • Liquid)

**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

| ACTIVE<br>INGREDIENT(S) | ORGANIC | GRANULAR<br>IN-FURROW | MIXING<br>WITH SEEDS | LIQUID<br>IN-FURROW | LIQUID<br>ON SEED | FORMULATION |
|-------------------------|---------|-----------------------|----------------------|---------------------|-------------------|-------------|
| M                       | ✓       |                       | ●                    |                     | ●                 | ●           |

## ON-FARM MIXING WITH SEEDS

### AGTIV® REACH™ P



#### ACTIVE INGREDIENT:

**M** 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<br>(4 x 1.75 lb) – pails | Cereals, flax & dry beans: 32 ha (80 acres)<br>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](https://PTAGTIV.COM/en/compatibility).

## GRANULAR IN-FURROW

### AGTIV® REACH™ G



#### ACTIVE INGREDIENT:

**M** 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:

**M** 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](https://PTAGTIV.COM/en/liquid-injection-kit). If the mixture does not contain pesticides or fertilizers, it can be emptied, refrigerated and used within 24 hours.

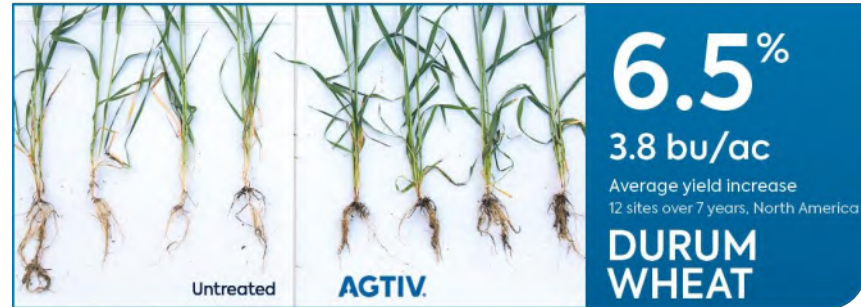
**TANK MIX:** Refer to [PTAGTIV.COM/en/REACH-L](https://PTAGTIV.COM/en/REACH-L) for application details.



# YIELD INCREASE

# AGTIV<sup>®</sup>

CLICK BELOW FOR ALL DETAILS



# 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® LIQUID INJECTION KIT

AGTIV®

- 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



**LABELS**



**EFFICACY REPORT**



**APPLICATION VIDEOS**



**BROCHURES**



**SOCIAL MEDIA**

**AND MUCH MORE:**

[Safety data sheets](#), [organic certificates](#)

