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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



### **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.

- **⋘** EXPANDS ROOT SYSTEM GROWTH
- **⋘** ENHANCES NUTRIENT & WATER UPTAKE
- ✓ INCREASES TOLERANCE TO ABIOTIC STRESSES
- **MPROVES 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.

- FIXES NITROGEN
- TO LEGUMES

### **BACILLUS**

PTB180 Technology, Bacillus pumilus

PTB185 Technology, Bacillus inaquosorum

Bacillus are bacteria that provide a healthy root zone which leads to better yields. As root colonizers, they stimulate the plant to grow more efficiently. Selected for their 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.

- PROVIDES NUTRIENTS
- **ENVIRONMENT &** PLANT ESTABLISHMENT
- **☑** INCREASES PLANT VIGOR & PERFORMANCE
- **◎** MITIGATES ABIOTIC STRESSES
- **▼ INCREASES** PHOTOSYNTHESIS RATE
- ENHANCES PLANT ESTABLISHMENT. **GROWTH AND YIELD**







## **BENEFITS FOR POTATO**

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

**AGTIV® STIMULATE™** provides a **healthy root zone** which leads to better yield. As a root colonizer, it stimulates the plant to **grow more efficiently**.







## **EFFECTIVE ON POTATO**

# **AGTIV**®



Quebec (Canada)



Quebec (Canada)



**Ontario (Canada)** 



Pays de la Loire (France)



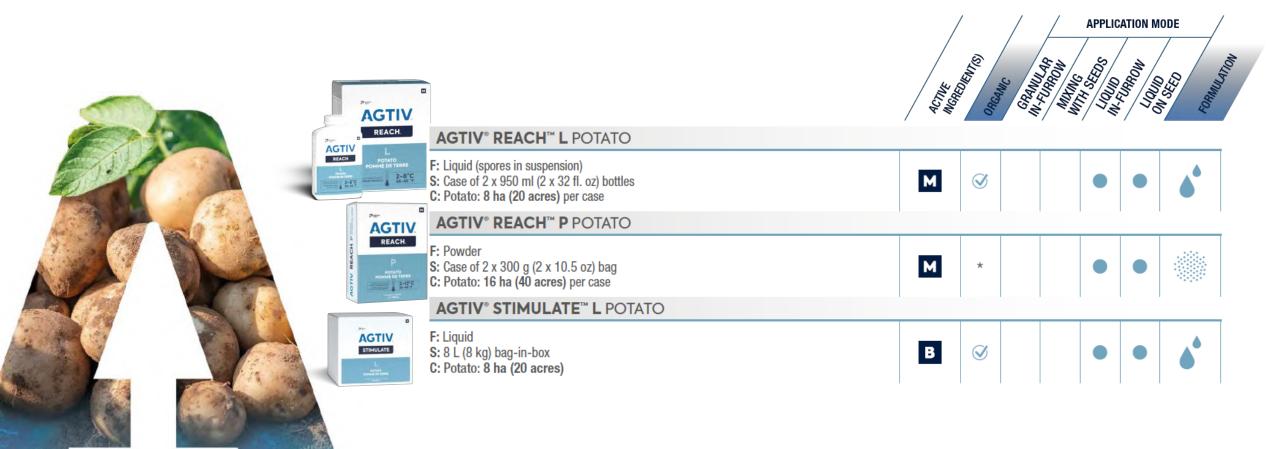
Quebec (Canada)



**Artois (France)** 



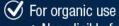
## AGTIV® REACH™ and AGTIV® STIMULATE™







S: Size



## AGTIV® REACH™ and AGTIV® STIMULATE™

IN-FURROW APPLICATION OR SEED-PIECE TREATMENT

### **AGTIV® REACH™ L** POTATO



#### ACTIVE INGREDIENT:

MYCORRHIZAE - PTB297 Technology

Rhizophagus irregularis: 10 500 viable spores/q

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	8 ha (20 acres)	711004

#### **DIRECTIONS FOR USE**

IN-FURROW APPLICATION — Dilute the product in the required volume of clean, non-chlorinated water. Refer to the application charts available at PTAGTIV.COM/en/potato. Shake the bottle well before use and maintain a constant agitation in the tank during application to avoid settling and clogging. Apply directly on seed pieces into furrow.

SEED-PIECE TREATMENT — In a clean tank, pour the content of one 950 ml (32 fl. oz) bottle in the volume of liquid required to treat the amount of seed pieces for 4 hectares (10 acres) of seedbed (110 000 - 170 000 seed pieces). Shake the bottle well before use and maintain a constant agitation in the tank during application to avoid settling and clogging. Apply directly on seed pieces. Do not treat seed pieces more than 48 hours before seeding (could activate seed-piece sprouting).

IN-FURROW APPLICATION OR SEED-PIECE TREATMENT

### **AGTIV® REACH™ P** POTATO



#### ACTIVE INGREDIENT:

MYCORRHIZAE - PTB297 Technology Rhizophagus irregularis: 67 000 viable spores/q

INERT INGREDIENT: Diatomaceous earth PARTICLE SIZE: < 0.2 mm (70 mesh)

SIZE	COVERS	CODE (case)
2 x 300 g (2 x 10.5 oz) – bags	Potato: 16 ha (40 acres)	711101

#### **DIRECTIONS FOR USE**

Pour the content of a 300 g pouch of the product into 5.7 liters of clean and nonchlorinated water. Mix well and maintain under agitation during application. Apply directly on seed pieces into furrow.

#### IN-FURROW APPLICATION

### AGTIV® STIMULATE™ L POTATO ▲



#### ACTIVE INGREDIENT:



BACILLUS - PTB185 Technology Bacillus inaquosorum: 2 x 109 viable spores/q

**INERT INGREDIENT: Water** 

PARTICLE SIZE: < 0.1 mm (150 mesh)

Contains non-soluble particles

SIZE	COVERS (1 case)	CODE (case)
8 L (8 kg) – bag-in-box	Potato: 8 ha (20 acres)	711021

#### **DIRECTIONS FOR USE**

Apply inoculant in the furrow, directly on the seed pieces, at a rate of 1000 ml/ha (400 ml/acre).





## AGTIV® REACH™ and AGTIV® STIMULATE™

### IN-FURROW APPLICATION

#### **RECOMMENDATIONS**

#### LIQUID INJECTION:

The AGTIV® Liquid Injection Kit, integrating a Dosatron® pump, is a customized equipment designed for the precise application of AGTIV® liquid products. Easy to install on your existing in-furrow application system, it operates off the main solution flow.

- Ensure the tank and the liquid injection system are clean and free of chemical residues, and agitation system is operational.
- On the planter, remove all cylinder screens by the nozzles or use filters with openings of at least 50 mesh (0.28 mm).
- Prepare your product mixture and adjust the Dosatron® injection rate following the calculation chart and application video at PTAGTIV.COM/en/liquid-injection-kit.
- Spray band width should be limited to 7 in (18 cm) or less.
- If the mixture does not contain pesticides or fertilizers, it can be emptied, refrigerated and used within 24 hours.

#### TANK MIX:

- Use filters with openings of at least 50 mesh (0.28 mm).
- Use a diaphragm (or peristaltic) pump for product application.
- Up and down agitation at all times in the tank.
- Spray band width should be limited to 7 in (18 cm) or less.
- . Apply within 6 hours after mixing into the liquid tank.
- · See the application video at PTAGTIV.COM/en/potato.

### **SEED-PIECE TREATMENT**

#### RECOMMENDATIONS

#### MILESTONE TREATER:

 Validate that the atomizing head and the mixing paddles correspond to the approved specifications.
 Visit PTAGTIV.COM/en/equipment for more details or contact your representative.

#### OTHER MODELS:

- Validate that the atomizing head and the mixing paddles correspond to the approved specifications (ask your representative for more info).
- Use filters with openings of at least 50 mesh (0.28 mm).
- Use a diaphragm (or peristaltic) pump for product application.
- Up and down agitation at all times in the tank.

## **8 RULES TO SUCCESS**







Product must be refrigerated (2–8 °C, 36–46 °F). Store the product at constant temperature at all times. Do not freeze product.



Use filters with openings of at least 0.28 mm (50 mesh).



Use diaphragm pump for product application (or peristaltic pump).



Shake the bottle well before use and maintain a constant and effective agitation in the tank during application.



Band width should be limited to 7 in (18 cm) or less.



Do not treat seed pieces more than 48 hours before seeding.



Apply within 6 hours after mixing into the liquid tank.



Do not use after the best before date indicated on the label.



## **POTATO YIELD RESULTS**







**CLICK HERE FOR DETAILS** 



## AGTIV® REACH™ COMPATIBILITY

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

Mycorrhizal inoculant is compatible with most pesticides and liquid fertilizers.





## **PROGRAM**

## **AGTIV**®

## **AGTIV® LIQUID INJECTION KIT**

- The AGTIV<sup>®</sup> Liquid Injection Kit is designed to apply the AGTIV<sup>®</sup> 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<sup>®</sup> with maximum accuracy and without affecting the mycorrhizae spores and in-furrow equipment.





# ONLINE TOOLS















Safety data sheets, organic certificates



