

A wide-angle photograph of a potato field in bloom. The foreground and middle ground are filled with rows of potato plants, their green leaves and clusters of small white flowers with yellow centers. The field stretches to a flat horizon under a pale, overcast sky. In the far distance, some faint silhouettes of hills and utility poles are visible.

AGTIV[®]

POTATO | GUIDE 2023

The background of the slide is a photograph of a rolling landscape with green and yellow fields under a clear blue sky. The word "AGTIV" is written in large, bold, blue capital letters across the top. A small registered trademark symbol (®) is located to the right of the "V".

AGTIV®

DESIGNED BY NATURE. PERFECTED BY SCIENCE.

CONTENTS

AGTIV®

- [COMPLETE OFFER](#)

AGTIV® TECHNOLOGIES

- [MODE OF ACTION](#)

PRODUCT OFFER

- [BENEFITS FOR POTATO](#)
- [EFFECTIVE ON POTATO](#)
- [PRODUCT INFORMATION](#)
- [RULES TO SUCCESS](#)

REPORTS SUMMARY

- [YIELD RESULTS](#)
- [COMPATIBILITY WITH PESTICIDES AND FERTILIZERS](#)

TOOLS

- [COMPLEMENTARY EQUIPMENT](#)
- [ONLINE TOOLS](#)

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.

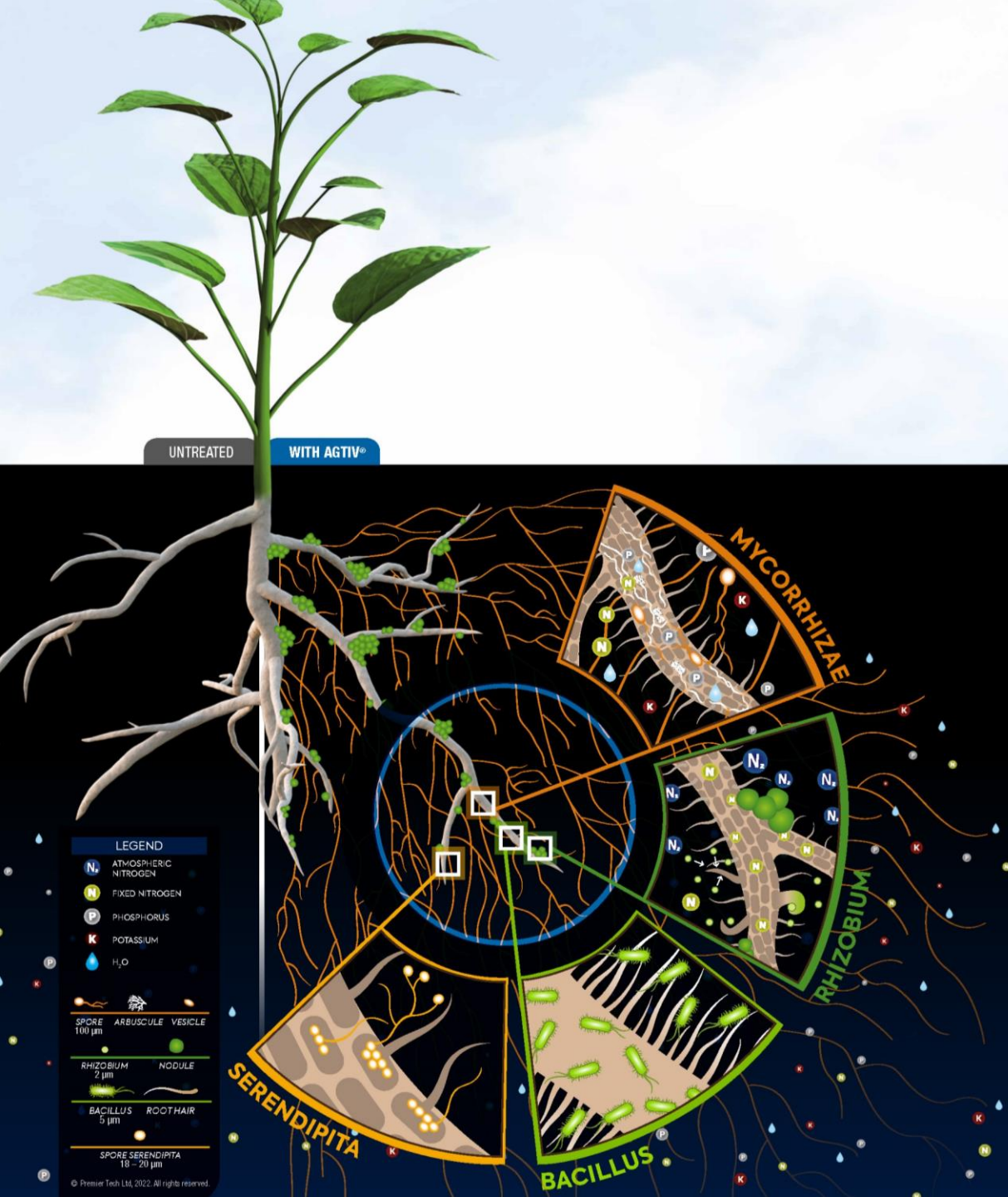
Discover more at

PTAGTIV.COM/brand

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

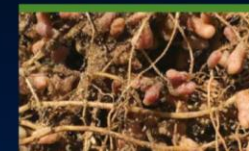
PTB160 Technology (pulses),
Rhizobium leguminosarum
biovar *viciae*

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



LEGEND	
N ₂	ATMOSPHERIC NITROGEN
N	FIXED NITROGEN
P	PHOSPHORUS
K	POTASSIUM
H ₂ O	
SPORE 100 µm	ARBUSCULE VESICLE
RHIZOBIUM 2 µm	NODULE
BACILLUS 5 µm	ROOTHAIR
SPORE SERENDIPITA 18 - 20 µm	

BENEFITS FOR POTATO

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 POTATO

AGTIV[®]



Quebec (Canada)



Ontario (Canada)



Quebec (Canada)



Quebec (Canada)



Pays de la Loire (France)



Artois (France)

AGTIV® REACH™ L

ACTIVE INGREDIENT:

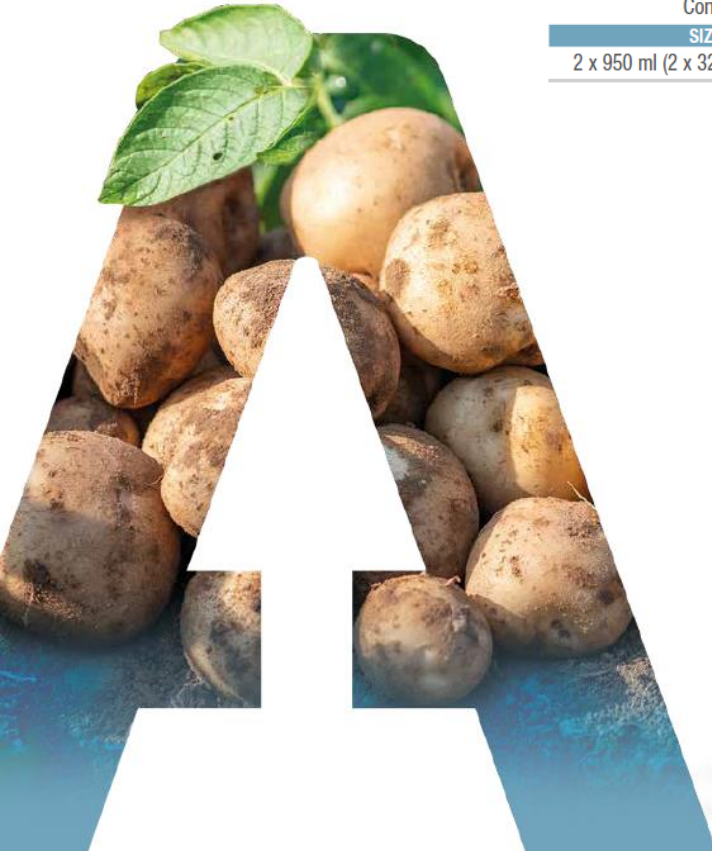
M MYCORRHIZAE – PTB297 Technology
Rhizophagus irregularis: 10 500 viable spores/g in liquid suspension
(315 000 viable spores/fl. oz)

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



AGTIV® REACH™ L POTATO (previously named AGTIV® POTATO • Liquid)

F: Liquid (spores in suspension)
S: Case of 2 x 950 ml (2 x 32 fl. oz) bottles
C: Potato: 8 ha (20 acres) per case

IN-FURROW APPLICATION

DIRECTIONS FOR USE

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.

See recommendations below based on the application mode:

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.

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

AGTIV® REACH™ L

ACTIVE INGREDIENT:

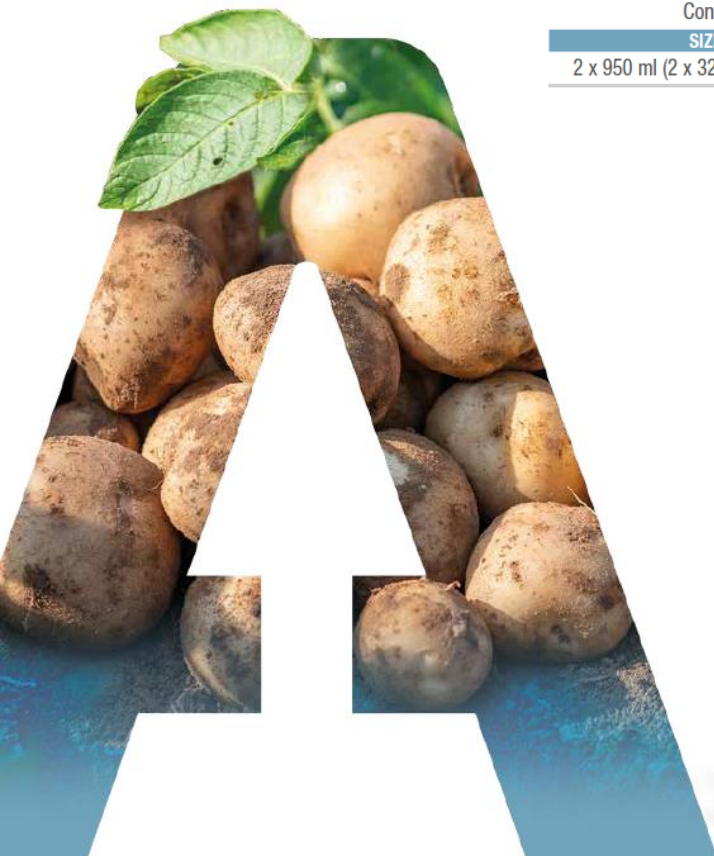
M MYCORRHIZAE – PTB297 Technology
Rhizophagus irregularis: 10 500 viable spores/g in liquid suspension
 (315 000 viable spores/fl. oz)

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



AGTIV® REACH™ L POTATO (previously named AGTIV® POTATO • Liquid)

F: Liquid (spores in suspension)
 S: Case of 2 x 950 ml (2 x 32 fl. oz) bottles
 C: Potato: 8 ha (20 acres) per case

SEED-PIECE TREATMENT

DIRECTIONS FOR USE

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).






See recommendations below based on the application mode:

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.

ACTIVE INGREDIENT(S)	ORGANIC	APPLICATION MODE				FORMULATION
		GRANULAR IN-FURROW	MIXING WITH SEEDS	LIQUID IN-FURROW	LIQUID ON SEED	
						

8 RULES TO SUCCESS

AGTIV[®]



-  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

AGTIV[®]



10%

31.6 cwt/ac

Average yield increase
1184 sites over 11 years, North
America and Europe

POTATO

[CLICK HERE FOR 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**

**LIQUID
FERTILIZER
ON SEED**

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



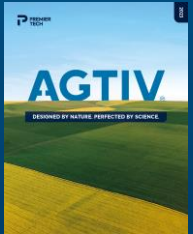
LABELS



EFFICACY REPORT



APPLICATION VIDEOS



BROCHURES



SOCIAL MEDIA

AND MORE:

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

