

AGTIV

DESIGNED BY NATURE. PERFECTED BY SCIENCE.







CONTENTS

PRODUCT OFFER

- BENEFITS FOR PEA & LENTIL
- EFFECTIVE ON PEA & LENTIL
- PRODUCTS INFORMATION
- COMPLEMENTARY EQUIPMENT

REPORTS SUMMARY

- YIELD RESULTS
- COMPATIBILITY WITH PESTICIDES AND FERTILIZERS

AGTIV®

- OUR TECHNOLOGIES
- OUR PRODUCTS

TOOLS

ONLINE TOOLS

BENEFITS FOR PEA & LENTIL

AGTIV® FUEL™ brings the **power of nitrogen** to the plant for **faster** and **stronger growth**. AGTIV® FUEL™ gives the plant the push it needs to achieve its **potential**.

AGTIV® THRIVE™ helps plants flourish by improving the fixation and **uptake** of **nitrogen**, **nutrients** and **water**, while **protecting** against stressors like drought and soil compaction.

AGTIV[®] **THRIVE™** contributes to better growth, thus increasing crop **yield** and **quality**.





EFFECTIVE

AGTIV®

PEA









LENTIL





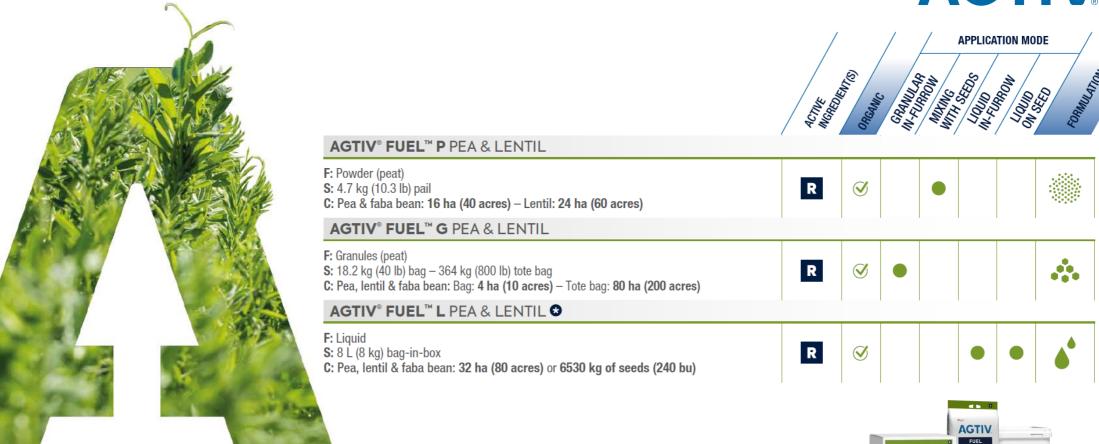






AGTIV® FUEL™

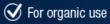








S: Size



* Non eligible for organic use. Contact us for more details.



AGTIV

AGTIV® FUEL™



ON-FARM MIXING WITH SEEDS

AGTIV[®] **FUEL**[™] **P** PEA & LENTIL



COVERS

40/60

acres

ACTIVE INGREDIENT:

RHIZOBIUM - PTB160 Technology

Rhizobium leguminosarum biovar viciae: 1.6 x 109 active cells/g

INERT INGREDIENT: Peat

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

SIZE	COVERS	CODE
4.7 kg (10.3 lb) - pail	Pea & faba bean: 16 ha (40 acres)	710403
	Lentil: 24 ha (60 acres)	

DIRECTIONS FOR USE

DRY APPLICATION — 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.

Peas & faba beans: apply at 300 g/ha (120 g or 4.2 oz/acre).

Lentils: apply at 200 g/ha (80 g or 2.8 oz/acre).

SLURRY APPLICATION — Pour one 4.7 kg pail in a clean container. Gradually add 8 - 10 litres of clean, non-chlorinated water and stir well. Add more water if the slurry is too thick. Pour onto the seeds and mix thoroughly to ensure even coating.

GRANULAR IN-FURROW

AGTIV® FUEL™ G PEA & LENTIL



COVERS

10/200

acres

ACTIVE INGREDIENT:

R RHIZOBIUM - PTB160 Technology

Rhizobium leguminosarum biovar viciae: 1.3 x 108 viable cells/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)	710111
364 kg (800 lb) – tote bag	80 ha (200 acres)	710112

DIRECTIONS FOR USE

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

LIOUID FOR IN-FURROW OR ON SEED

AGTIV[®] **FUEL**[™] L PEA & LENTIL



ACTIVE INGREDIENT:

TREATS 240 bu RHIZOBIUM - PTB160 Technology

Rhizobium leguminosarum biovar viciae: 6 x 109 viable cells/g

PARTICLE SIZE: < 0.1 mm (150 mesh) Contains non-soluble particles

SIZE	COVERS	CODE
8 L (8 kg) – bag-in-box	In-furrow: 32 ha (80 acres)	710204
	On seed: 6530 kg of seeds (240 bu)	

DIRECTIONS FOR USE

ON SEED — Shake well before use and apply directly to the seed. Apply 33 ml per 27 kg seeds, ensure full coverage. Optimum on-seed viability for 30 days when treated seeds are stored below 12°C (54°F).

IN-FURROW — Apply directly in the seed row at a rate of 250 ml/ha (100 ml/acre). This product should be applied using the AGTIV® Liquid Injection Kit. To apply, prepare the product mixture and adjust the Dosatron® injection rate following the application chart and video at PTAGTIV.COM/en/liquid-injection-kit.

Use EXTENDER™ L for AGTIV® inoculants for longer shelf life.



EXTENDER™ L for AGTIV®





LIQUID ADDITIVE FOR SEED APPLICATION

EXTENDER™ L for AGTIV® inoculants is a liquid additive designed for on seed application of AGTIV® inoculants, in order to prevent desiccation.

DIRECTIONS FOR USE

A bag of EXTENDER $^{\rm TM}$ L for AGTIV $^{\rm S}$ inoculants can treat up to 250 units of soybean or 240 bushels of pulses. Apply to seeds at a rate of 12.8 ml / 45 kg of seeds for soybean and 6.6 ml / 27 kg of seeds for pulses.

RECOMMENDATIONS

- · Open package only when ready to use.
- Shake well before use and maintain a constant and effective agitation in the tank during application.
- Calibrate the application system to deliver the correct amount of mixture of AGTIV® inoculant and EXTENDER™ L for AGTIV® inoculants.
- Ensure the tank and the liquid application system are clean and free of chemical residues.
- Ensure the temperature of the diluted tank mix does not exceed 22°C (72°F).
- Prepare only as much of mixture as will be used that day.
- Ensure full seed coverage.
- · Apply within 6 hours following mix into the tank.
- Respect the best before date on the label.

AGTIV® THRIVE™







AGTIV® THRIVE™ P PEA & LENTIL

- F: Powder (peat)
- **S:** 4.7 kg (10.3 lb) pail 2.4 kg (5.3 lb) pail
- **C:** Pea & faba bean: Pail 4.7 kg: **16 ha (40 acres)** Pail 2.4 kg: **8 ha (20 acres)** Lentil: Pail 4.7 kg: **24 ha (60 acres)**











AGTIV® THRIVE™ G PEA & LENTIL

- F: Granules (peat)
- **S:** 18.2 kg (40 lb) bag 364 kg (800 lb) tote bag
- C: Pea, lentil & faba bean: Bag: 4 ha (10 acres) Tote bag: 80 ha (200 acres)









AGTIV® THRIVE™ PEA & LENTIL

- F: Liquid
- **S:** Combo box: 8 L (8 kg) bag-in-box + 4 x 950 ml (4 x 32 fl. oz) bottles
- C: Pea, lentil & faba bean: 32 ha (80 acres)





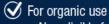












AGTIV® THRIVE™

ON-FARM MIXING WITH SEEDS

AGTIV° THRIVE™ P PEA & LENTIL



COVERS

40/60

acres

ACTIVE INGREDIENTS:

MYCORRHIZAE – PTB297 Technology Rhizophagus irregularis: 2750 viable spores/g

R RHIZOBIUM – PTB160 Technology

Rhizobium leguminosarum biovar viciae: 1.6 x 109 active cells/g

INERT INGREDIENT: Peat

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

SIZE	COVERS	CODE
4.7 kg (10.3 lb) – pail	Pea & faba bean: 16 ha (40 acres) Lentil: 24 ha (60 acres)	710303
2.4 kg (5.3 lb) - pail	Pea & faba bean: 8 ha (20 acres)	710313

DIRECTIONS FOR USE

DRY APPLICATION — 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.

Peas & faba beans: apply at 300 g/ha (120 g or 4.2 oz/acre).

Lentils: apply at 200 g/ha (80 g or 2.8 oz/acre).

SLURRY APPLICATION — Pour one 4.7 kg pail in a clean container. Gradually add 8-10 liters of clean, non-chlorinated water and stir well (for one 2.4 kg pail, add only 4-5 liters of water). Add more water if the slurry is too thick. Pour onto the seeds and mix thoroughly to ensure even coating.

GRANULAR IN-FURROW

AGTIV° THRIVE™ G PEA & LENTIL



COVERS

10/200

acres

ACTIVE INGREDIENTS:

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

R HIZOBIUM – PTB160 Technology

Rhizobium leguminosarum biovar viciae: 1.3 x 10⁸ viable cells/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)	710101
364 kg (800 lb) – tote bag	80 ha (200 acres)	710102

DIRECTIONS FOR USE

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



COMBO LIQUID FOR IN-FURROW

AGTIV® THRIVE™ PFA & I FNTII



COVERS

80

acres

ACTIVE INGREDIENTS:

MYCORRHIZAE – PTB297 Technology

Rhizophagus irregularis: 6400 viable spores/g

RHIZOBIUM – PTB160 Technology

Rhizobium lequminosarum biovar viciae: 6 x 10⁹ viable cells/q

INERT INGREDIENT: Water

PARTICLE SIZE: < 0.2 mm (70 mesh) – PTB297 Technology < 0.1 mm (150 mesh) – PTB160 Technology Contains non-soluble particles

SIZE	COVERS	CODE
Combo box:	32 ha (80 acres)	710214
4 x 950 ml (4 x 32 fl. oz) – bottles 8 L (8 kg) – bag-in-box		

DIRECTIONS FOR USE

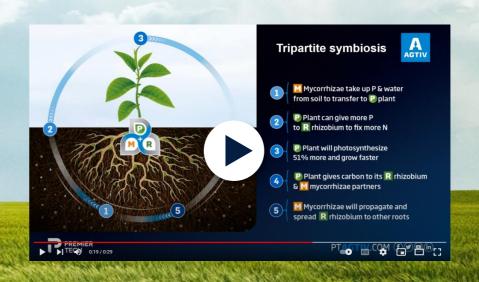
This product should be applied using the AGTIV® Liquid Injection Kit. To apply, pour 4 \times 950 ml bottles of Mycorrhizae and one 8 L bladder of Rhizobium in the tank and adjust the Dosatron® injection rate following the application chart and video at PTAGTIV.COM/en/liquid-injection-kit.

Apply directly in the seed row at a rate of 118.75 ml/ha (47.5 ml/acre) for Mycorrhizae and 250 ml/ha (100 ml/acre) for Rhizobium, for a total of 368.75 ml/ha (147.5 ml/acre). If the mixture does not contain pesticides or fertilizers, it can be emptied, refrigerated and used within 24 hours.



TRIPARTITE SYMBIOSIS EXPLAINED BY OUR EXPERTS







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.





YIELD RESULTS









CLICK HERE FOR DETAILS



PESTICIDES AND FERTILIZERS COMPATIBILITY

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

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

Our inoculants are compatible with most pesticides and liquid fertilizers.









BIOLOGICAL ACTIVE INGREDIENTS

For more than 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.

AGTIV THRIVE.

AGTIV ENRICH.

AGTIV REACH.

AGTIV® REACH™ HELPS

AGTIV IGNITE.

AGTIV FUEL.

AGTIV STIMULATE.

MYCORRHIZAE & RHIZOBIUM

AGTIV® ENRICH™ STRENGTHENS LEGUME NITROGEN FIXATION AND PROVIDES A VIGOROUS **ROOT SYSTEM THANKS TO RHIZOBIUM & BACILLUS**

PLANTS REACH AND ABSORB MORE NUTRIENTS AND WATER THANKS TO **MYCORRHIZAE**

AGTIV® IGNITE™ IMPROVES PHOTOSYNTHESIS AND MITIGATES IMPACT OF **ENVIRONMENTAL STRESSES** THANKS TO SERENDIPITA

AGTIV® FUEL™ FEEDS LEGUMES BY FIXING ATMOSPHERIC NITROGEN THANKS TO RHIZOBIUM

AGTIV® STIMULATE™ REINFORCES PLANTS WITH A HEALTHY ROOT ZONE THANKS TO BACILLUS



RHIZOBIUM + BACILLUS

> PTB162 Technology PTB180 Technology

M MYCORRHIZAE

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



PTB299 Technology Serendipita Indica



PTB160 Technology (pea & lentil) Rhizobium leauminosarum biovar viciae PTB162 Technology (soybean) Bradyrhizobium japonicum PTB161 Technology (chickpea)

Mesorhizobium onobrychidis

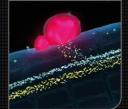
B BACILLUS

PTB180 Technology, Bacillus pumilus PTB185 Technology, Bacillus inaquosorum

- Enhances Puptake
- Provides more energy for better nitrogen fixation
- Increases photosynthesis
- Increases nodulation and nitrogen fixation
- Improves rooting environment
- Enhances plant vigor and productivity
- Expands root system
- Enhances nutrient and water uptake
- Promotes plant robustness and vigor
- Mitigates abiotic stresses
- Increases photosynthesis rate
- Enhances plant establishment, growth and yield
- Increases nodulation
- + Fixes nitrogen
- + Provides nutrients to pulses
- Stimulates rooting environment
- Improves plant establishment
- Increases plant vigor and productivity











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

ONLINE TOOLS





BROCHURES









SOCIAL MEDIA

AND MUCH MORE:

Safety data sheets, organic certificates

