



# **RELIABLE INOCULANTS**

MYCORRHIZAE • RHIZOBIUM



Backed by more than 35 years of expertise in biological active ingredients, you can count on AGTIV<sup>®</sup> reliable inoculants: the only brand on the market to have the powerful combination of mycorrhizae and rhizobium. Available in different formulations, use them on the farm with confidence to push crops' yield potential thanks to increased nutrient and water uptake.

APPLICATION MODE



## **MYCORRHIZAE & RHIZOBIUM INOCULANTS**

YC	JRRHIZAE & RHIZOBIUM INOCULAN IS		<sup>ACTIVE</sup> NGREDIES	ORCEAN	GRAMM.	NIIVING	LIQUID M. CUID M. CUID	LIQUID DN CUID	<sup>r</sup> ORMIII.	Mollen		
10	SOYBEAN			/				/ <b>U</b>				
	AGTIV <sup>®</sup> SOYBEAN • Powder											
	F: Powder (peat) S: 4.7 kg (10.3 lb) pail C: Soybean: 16 ha (40 acres)	Μ	R	Ø		•			(		CLICK	
ĺ	AGTIV <sup>®</sup> SOYBEAN • Granular										) to lea	Iri
	<b>F:</b> Granules (peat) <b>S:</b> 18.2 kg (40 lb) bag – 364 kg (800 lb) tote bag <b>C: Soybean:</b> Bag: <b>4 ha (10 acres)</b> – Tote bag: <b>80 ha (200 acres)</b>	Μ	R	*								
	AGTIV® BRADY • Liquid for SOYBEAN											
	F: Liquid S: 11 L (11 kg) bag-in-box C: Soybean: 16 ha (40 acres) or 4600 kg of seeds (200 units)	¢	R	3			•	•	P			
)	FORAGES											
	AGTIV® FORAGES • Powder								A PARTY IN			
	F: Powder (diatomaceous earth) S: 1.6 kg (3.5 lb) pail C: Alfalfa, mix forages & grass: 8 ha (20 acres)	Μ		*		•						
(	PULSES (peas, lentils & faba beans)											
	AGTIV <sup>®</sup> PULSES • Granular											
	F: Granules (peat) S: 18.2 kg (40 lb) bag – 364 kg (800 lb) tote bag C: Peas, lentils & faba beans: Bag: 4 ha (10 acres) – Tote bag: 80 ha (200 acres)	Μ	R	3								
1	FIELD CROPS (dry beans, cereals & flax)											
	AGTIV <sup>®</sup> FIELD CROPS - O • Powder											
	<ul> <li>F: Powder (peat)</li> <li>S: Case of 4 x 800 g (4 x 1.75 lb) pails</li> <li>C: Dry beans, cereals &amp; flax: 32 ha (80 acres) per case Alfalfa, mix forages &amp; grass: 16 ha (40 acres) per case</li> </ul>	Μ		Ø		•			and the second			
	AGTIV® FIELD CROPS • Powder								A de la caractería de la c			
	F: Powder (diatomaceous earth) S: 2 kg (4.4 lb) pail C: Dry beans, cereals & flax: 16 ha (40 acres)	Μ		*		•			A state			
	AGTIV <sup>®</sup> FIELD CROPS • Granular								-			
	F: Granules (zeolite) S: 18.2 kg (40 lb) bag – 364 kg (800 lb) tote bag C: Dry beans, cereals & flax: Bag: 3.2 ha (8 acres) – Tote bag: 64 ha (160 acres)	Μ		Ø	•							
	AGTIV° FIELD CROPS • Liquid											
	F: Liquid (spores in suspension) S: Case of 2 x 950 ml (2 x 32 fl. oz) bottles C: Beans, cereals & flax: 16 ha (40 acres) per case	Μ	¢	<b>Ø</b>			•		-			

LICK ON PRODUCTS



F: Formulation M MYCORRHIZAE S:Size C: Crop/ **B** BACILLUS Coverage

**R** RHIZOBIUM

PTB297 Technology

PTB180 Technology

PTB160 Technology (pulses) PTB162 Technology (soybean)



Ser organic use

\* Non eligible for organic use.

**\*\*** Eligibility may vary depending on the territory. Contact us for more details.

# TOOLS

# EQUIPMENT & PROGRAMS

Dedicated to offer technical support for product application, field demonstration, equipment and input compatibility, and to promote educational agronomic knowledge, Premier Tech provides various tools on PTAGTIV.COM. To ensure performance through efficient and precise application of its inoculants, Premier Tech recommends the use of approved equipment, supported by pay-back programs on selected AGTIV<sup>®</sup> products.

## **EASY TO USE**

For an easy integration in your farming practices, access:

- ✓ Labels, SDS, organic certificates
- $\checkmark$  Application videos, charts and rate calculators

PTAGTIV.COM**/en/toolbox** 

## EFFECTIVE

For the compatibility lists of our active ingredients with various agricultural inputs, such as:

- Sesticides
- ✓ Liquid fertilizers

PTAGTIV.COM/en/compatibility

## **PROVEN RESULTS**

Discover the third-party results proving the effectiveness of the active ingredients contained in AGTIV<sup>®</sup> products:

- S Efficacy report
- ✓ Field observations

PTAGTIV.COM**/en/results** 

## **AGRONOMIC KNOWLEDGE**

Access blog articles on various agronomic topics:

- Soil biology
- ✓ Plant health
- ✓ Active ingredients, etc.

PTAGTIV.COM**/en/blog** 

## LIQUID

#### S EQUIPMENT PROGAM

The AGTIV<sup>®</sup> Liquid Injection Kit, integrating a Dosatron<sup>®</sup> Injection System, is a customized equipment designed and recommended by Premier Tech. Easy to install on your existing in-furrow application system, it operates off the main solution flow for precise application of AGTIV<sup>®</sup> liquid products. End-of-season pay-back programs are available for the AGTIV<sup>®</sup> Liquid Injection Kit and the Upgrade Kit.

#### **⊘** RETAILER FRIDGE PROGAM

Premier Tech recommends to its retailer network the purchase of a fridge that can effectively store AGTIV<sup>®</sup> liquid products. Contact your representative to learn more.

## POWDER

Premier Tech has a list of recommended applicators to use with AGTIV<sup>®</sup> powder products. Ask your representative to learn more about the applicators and the pay-back program offered.



PTAGTIV.COM/en/program



PTAGTIV.COM/en/equipment

# SOYBEAN



**ON-FARM MIXING WITH SEEDS** 

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ELIGIBLE FOR





#### 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. Apply at 300 g/ha (120 g or 4.2 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.

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

#### RECOMMENDATIONS

- · Avoid using the product with wet equipment.
- At seeding time, calibrate the seeder with the treated seeds.
- Do not freeze or expose to temperatures above 25°C (77°F).
- Store the product at constant temperature at all times.
- When seeding, ensure full seed-soil contact to minimize any desiccation of the inoculant. Seed within 4 hours after coating.

### **GRANULAR IN-FURROW**

## AGTIV<sup>®</sup> SOYBEAN • Granular



#### DIRECTIONS FOR USE

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

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- Calibrate the seeder before applying the product.
- · Flowability may be affected by conditions of high humidity. To avoid flow problems, do not fill tank or seed cart completely.
- Do not freeze or expose to temperatures above 25°C (77°F).
- Store the product at constant temperature at all times.
- Do not blend with fertilizers.

### LIQUID FOR IN-FURROW OR ON SEED

## **AGTIV® BRADY** • Liquid for SOYBEAN



#### **DIRECTIONS FOR USE**

LIQUID IN-FURROW - Apply directly in the seed row at a rate of 690 ml/ha (275 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.

LIQUID ON SEED - Shake well before use and apply directly to the seed. Apply 64.6 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).

#### RECOMMENDATIONS

- Refer to the list of compatible pesticides and liquid fertilizers at PTAGTIV.COM/en/compatibility.
- · Ensure the tank and the liquid application system are clean and free of chemical residues.
- Shake well before use and maintain a constant agitation in the tank during application
- Calibrate the application system to deliver the correct amount of inoculant.
- Ensure the temperature of the diluted tank mix doesn't exceed 22°C (72°F).
- Apply within 6 hours after mixing into the tank.

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ELIGIBLE FOR

#### PTAGTIV.COM/en/rotation

# FORAGES





### **ON-FARM MIXING WITH SEEDS**

### **AGTIV® FORAGES •** Powder



INERT INGREDIENT: Diatomaceous earth
PARTICLE SIZE: < 1 mm (18 mesh)
BULK DENSITY: 275 g/L (0.7 lb/US dry qt)

SIZE	COVERS	CODE
1.6 kg (3.5 lb) – pail	8 ha (20 acres)	712703

1 TATE

#### **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. Apply at 200 g/ha (80 g or 2.8 oz/acre).

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

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- At seeding time, calibrate the seeder with the treated seeds.
- Seed within 8 hours after coating.
- Do not freeze or expose to temperatures above 35°C (95°F).
- Store the product at constant temperature at all times.
- · When seeding, ensure full seed-soil contact to minimize any desiccation of the inoculant.

## AGTIV® PULSES • Granular

ACTIVE INGREDIENTS: ENDOMYCORRHIZAL INOCULUM – PTB297 Technology Glomus intraradices: 178 viable spores/g RHIZOBIAL INOCULUM – PTB160 Technology				
Rhizobium leguminosarum biovar viciae: 1.3 x 10 <sup>8</sup> viable cells/g         INERT INGREDIENT: Peat         PARTICLE SIZE: 0.3 mm to 2 mm (10 - 50 mesh)				
BULK DENSITY: 650 g/L (41 lb/ft <sup>3</sup> )				
SIZE	COVERS	CODE		
18.2 kg (40 lb) – bag	4 ha (10 acres)	710101, Organic: 710121		
364 kg (800 lb) – tote bag	80 ha (200 acres)	710102, Organic: 710122		

#### **DIRECTIONS FOR USE**

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

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- Calibrate the seeder before applying the product. • Flowability may be affected by conditions of high humidity.
- Do not freeze or expose to temperatures above 25°C (77°F).
- Store the product at constant temperature at all times.
- Do not blend with fertilizers.





To avoid flow problems, do not fill tank or seed cart completely.



# **BO%** of plants can be colonized with the collaborative' species Glomus intraradices

"G. intraradices has turned out to be a "wonder fungus" in several surveys, and field trials so far has shown it to be equal or superior to mixtures of other fungi."<sup>2</sup>

<sup>1</sup>Kiers et. al. 2011. Reciprocal Rewards Stabilize Cooparation in the Mycorrhizal Symbiosis. Science 333:80-882.

<sup>2</sup> Trivedi et. al. 2007. Organic farming and mycorrhizae in agriculture.I.K. International Publishing House Ltd. New Delhi, pp.290.

## **ON-FARM MIXING WITH SEEDS**

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ELIGIBLE FOR

## **AGTIV**<sup>®</sup> **FIELD CROPS - O** • Powder



#### 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.

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- At seeding time, calibrate the seeder with the treated seeds.
- Seed within 8 hours after coating.
- Do not freeze or expose to temperatures above 35°C (95°F).
- Store the product at constant temperature at all times.
- When seeding, ensure full seed-soil contact to minimize any desiccation of the inoculant.

### **ON-FARM MIXING WITH SEEDS**

## AGTIV<sup>®</sup> FIELD CROPS • Powder

ACTIVE INGREDIENT: ENDOMYCORRHIZAL INOCULUM – PTB297 Technology Glomus intraradices: 6 400 viable spores/g				
INERT INGREDIENT: Diatomaceous earth PARTICLE SIZE: < 1 mm (18 mesh) BULK DENSITY: 275 g/L (0.7 lb/US dry qt)				
SIZE COVERS CODE				
2 kg (4.4 lb) – pail	16 ha (40 acres)	712313		

#### 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. Apply at 125 g/ha (50 g or 1.8 oz/acre) for cereals, flax & dry beans. Refer to the list of compatible pesticides at PTAGTIV.COM/en/compatibility.

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- At seeding time, calibrate the seeder with the treated seeds.
- Seed within 8 hours after coating.
- Do not freeze or expose to temperatures above 35°C (95°F).
- Store the product at constant temperature at all times.
- · When seeding, ensure full seed-soil contact to minimize any desiccation of the inoculant.

### **GRANULAR IN-FURROW**



## **AGTIV® FIELD CROPS •** Granular

ACTIVE INGREDIENT: ENDOMYCORRHIZAL INOCULUM – PTB297 Te Glomus intraradices: 142 viable spores/g	echnology
INERT INGREDIENT: Zeolite PARTICLE SIZE: 0.4 mm to 1.4 mm (14 - 40 mesh) BULK DENSITY: 920 g/L (57 lb/ft <sup>3</sup> )	

SIZE	COVERS	CODE
18.2 kg (40 lb) – bag	3.2 ha (8 acres)	712101
364 kg (800 lb) – tote bag	64 ha (160 acres)	712102

#### **DIRECTIONS FOR USE**

Apply in the seed row at a rate of 5.7 kg/ha (5 lb/acre). Refer to the list of compatible pesticides at PTAGTIV.COM/en/compatibility.

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- Calibrate the seeder before applying the product.
- Flowability may be affected by conditions of high humidity. To avoid flow problems, do not fill tank or seed cart completely.
- Do not freeze or expose to temperatures above 35°C (95°F).
- Store the product at constant temperature at all times.
- Do not blend with fertilizers.

PTAGTIV.COM/en/glomus

### LIQUID IN-FURROW



## AGTIV<sup>®</sup> FIELD CROPS • Liquid

ACTIVE INGREDIENT: M ENDOMYCORRHIZAL INOCULUM – PTB297 Technology Glomus intraradices: 6 400 viable spores/g in liquid suspension				
INERT INGREDIENT: Water PARTICLE SIZE: < 0.2 mm (70 mesh) Contains non-soluble particles				
SIZE (case)	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 ac). Dilute the product in the required volume of clean, non-chlorinated water, according to the application modes below. 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. Refer to the list of compatible pesticides and liquid fertilizers at PTAGTIV.COM/en/compatibility.

LIQUID INJECTION: To apply using the AGTIV<sup>®</sup> 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 24 hours.

TANK MIX: Refer to PTAGTIV.COM/en/FC-liquid for application details.

#### RECOMMENDATIONS

- Product must be refrigerated (2-8°C, 36-46°F). Do not freeze product.
- Ensure the tank and the liquid injection system are clean and free of chemical residues, and agitation system is operational.
- On the planter or seeder, make sure to remove all cylinder screens by the orifices or use filters with openings of at least 50 mesh (0.28 mm).
- Ensure the temperature of the diluted tank mix doesn't exceed 22°C (72°F).

# BIOLOGICAL ACTIVE INGREDIENTS

Backed by more than 35 years of expertise in biological active ingredients, Premier Tech masters a unique large-scale manufacturing process that meets the highest quality control standards, allowing you to fully benefit from the highly effective inoculants of our AGTIV® agricultural product line. For stronger growth through better plant resistance to stresses, higher yields and superior crop quality, you can count on AGTIV®.

## PLANT

Nutrients and water are essential components for effective plant growth. By adding biological active ingredients, such as beneficial mycorrhizae and rhizobium, an earlier and efficient use of water and nutrients will help plants reach optimum crop yield.

UNTREATED

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WITH AGTIV®



# MYCORRHIZAE 🕀

CLICK HERE

PTB297 Technology, Glomus intraradices

### Mycorrhizae are beneficial associations between a mycorrhizal

fungus and roots. The mycorrhizal spores germinate in the soil and produce filaments (hyphae) which will enter into root cells. This association will allow the formation of an intra and extra-radical network of filaments that will explore the soil and access more nutrients and water, and transfer them to the plant.

### S EXPAND ROOT SYSTEM GROWTH S FIX NITROGEN & MAKE IT

- **Solution ENHANCE NUTRIENT & WATER UPTAKE**
- *⊘* INCREASE TOLERANCE **TO STRESSES**
- **IMPROVE SOIL STRUCTURE ⊘**







## RHIZOBWM CLICK HERE to know more

PTB160 Technology (pulses), Rhizobium leguminosarum biovar viciae

PTB162 Technology (soybean), Bradyrhizobium japonicum

#### 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.

# **AVAILABLE TO THE PLANT**

#### TRIPARTITE P **SYMBIOS** MR

Tripartite symbiosis is the biological interaction between Mycorrhizae, Rhizobium and the Plant.

CLICK HERE to know more

By enhancing root system growth and creating a network of filaments, mycorrhizae help plants to uptake more nutrients, such as phosphorus, and increase the nodulation process for the rhizobium.

- *⊙* INCREASE PROPAGATION **OF RHIZOBIUM TO OTHER ROOTS**
- **HELP FEED THE PLANT**
- **Solution ENHANCE PHOTOSYNTHESIS**

To learn more about the tripartite symbiosis

PTAGTIV.COM/en/tripartite

# POTATO



## **AGTIV**<sup>®</sup> **POTATO** • Liquid



#### RECOMMENDATIONS

- The insulated box has been designed to allow the product to be kept outside of the fridge for 12 hours at 15°C (59°F). Refrigerate upon receipt.
- Product must be refrigerated (2-8°C, 36-46°F). Do not freeze product.
- Ensure the temperature of the diluted tank mix doesn't exceed 22°C (72°F).
- Do not use after the best before date indicated on the label.

### **IN-FURROW APPLICATION**

#### DIRECTIONS FOR USE

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

See recommendations below based on the application mode:

#### LIQUID INJECTION:

The AGTIV<sup>®</sup> Liquid Injection Kit, integrating a Dosatron<sup>®</sup> 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<sup>®</sup> 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

#### DIRECTIONS FOR USE

In a clean tank, pour the contents 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). Refer to the list of compatible pesticides at PTAGTIV.COM/en/compatibility.

See recommandations 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.

For an increased nutrient and water access, the plant can partner with mycorrhizae to expand its root system and reach more soil. "The absorptive area of mycorrhizal hyphae is approximately 10 times more efficient than that of root hairs and about 100 times

<sup>1</sup>Jones, C. E. 2009. Mycorrhizal fungi - powerhouse of the soil. Evergreen Farming 8:4-5.

PTAGTIV.COM/en/water

# **GREEN PEAS**



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## **ON-FARM MIXING WITH SEEDS**

## AGTIV<sup>®</sup> SPECIALTY CROPS - PEA • Powder

### ACTIVE INGREDIENTS:

**ENDOMYCORRHIZAL INOCULUM** – PTB297 Technology Glomus intraradices: 2 750 viable spores/g

**R RHIZOBIAL INOCULUM** – PTB160 Technology Rhizobium leguminosarum biovar viciae: 1.6 x 10<sup>9</sup> viable cells/g

INERT INGREDIENT: Peat PARTICLE SIZE: < 1 mm (18 m BULK DENSITY: 400 g/L (1 lb/L	iesh) IS dry qt)	
SIZE	COVERS	CODE
2.4 kg (5.3 lb) – pail	8 ha (20 acres)	711913

#### 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. The product formulation may "bulk up" seeds. It is important to calibrate the planter to ensure correct planting rate is attained. Apply at a rate of 300 g/ha (120 g or 4.2 oz/acre). Refer to the list of compatible pesticides at PTAGTIV.COM/en/compatibility. This product can be used with peas and faba beans.

#### RECOMMENDATIONS

- Avoid using the product with wet equipment.
- At seeding time, calibrate the seeder with the treated seeds.
- Seed within 4 hours after coating.
- Do not freeze or expose to temperatures above 25°C (77°F).
- Store the product at constant temperature at all times.
- When seeding, ensure full seed-soil contact to minimize any desiccation of the inoculant.



#### PTAGTIV.COM/en/tripartite

# **SPECIALTY CROPS**



# Up to **3** weeks early to get marketable size with mycorrhizae

"In a controlled study, onion (Allium cepa) plants inoculated with AMF [Arbuscular Mycorrhizal Fungi] had a higher biomass [...] and reached marketable size ( > 25 mm bulb diameter) 2-3 weeks earlier than [non-inoculated plants], and [AMF] caused firmer bulb formation of onions."1

<sup>1</sup>Vege review. C. Baum et al. / Scientia Horticulturae 187 (2015) 131-141

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ELIGIBLE FOR

## AGTIV<sup>®</sup> SPECIALTY CROPS • Powder

#### **ACTIVE INGREDIENT:**

**ENDOMYCORRHIZAL INOCULUM** – PTB297 Technology Glomus intraradices: 12 000 viable spores/q

**INERT INGREDIENT:** Diatomaceous earth PARTICLE SIZE: < 1 mm (18 mesh)

<b>JLK DENSITY:</b> 275 g/L (0.7 lb/US dry qt)		
SIZE (case)	CODE (case)	
4 x 500 g (4 x 1.1 lb) – pails	711914	
CANADA: For organic option, ask for this product: 712324		

This product is compatible with legume inoculants.

#### RECOMMENDATIONS

- Seed within 8 hours after coating.
- Do not freeze or expose to temperatures above 35°C (95°F).
- Store the product at constant temperature at all times.
- · Refer to the list of compatible pesticides at
- PTAGTIV.COM/en/compatibility.

#### TRANSPLANTING

#### DIRECTIONS FOR USE

VEGETABLE TRANSPLANTS OR BARE-ROOT BERRIES - Right before planting, coat the root plugs or the bare roots with the product. A 500 g pail of product can treat up to 111 000 transplants or 20 000 bare roots (according to plant size).

ASPARAGUS - Right before planting, coat the bottom of the crown with the product. The recommended quantity is 25 g (90 ml) for 1 000 crowns.

#### MIXING WITH SEEDS

#### DIRECTIONS FOR USE

At planting time, mix evenly with seeds (Table 1). Ensure uniform seed coverage is obtained. The product formulation may "bulk up" seeds. It is important to calibrate the planter to ensure correct planting rate is attained. Avoid using AGTIV<sup>®</sup> with wet equipment. When seeding, ensure full seed-soil contact to minimize any desiccation of the inoculant.

Table 1 – Quantity of AGTIV® to use per 1 000 seeds				
Type of seed	g	0Z	ml	
Nantes carrot	0.225	0.0079	0.818	
Market carrot	0.220	0.0077	0.800	
Spanish onion	0.375	0.0132	1.364	
Yellow onion	0.275	0.0097	1.000	
Lettuce	0.280	0.0099	1.018	
Pea/bean	0.250	0.0088	0.909	
Cucumber	1.32	0.0465	4.8	
Squash/pumpkin	3.3	0.1162	12	
Garlic	25	0.8803	90.9	

1 cup equals 240 ml (65 g) of product.

### **INCORPORATION INTO GROWING MEDIA**

#### DIRECTIONS FOR USE

Mix the quantity of product into the growing media. For application chart, visit PTAGTIV.COM/en/SC-powder. For a better homogeneity, it is preferable to premix the recommended quantity of product to a part of the growing media (or one of the dry ingredient used in its composition). For application onto tray surface, contact your local representative for application details depending on your practices.

## **AGTIV® SPECIALTY CROPS •** Granular

#### ACTIVE INGREDIENT:

**ENDOMYCORRHIZAL INOCULUM** – PTB297 Technology Glomus intraradices: 142 viable spores/g

INERT INGREDIENT: Peat PARTICLE SIZE: 0.3 mm to 2 mm (10 - 5 BULK DENSITY: 650 g/L (41 lb/ft <sup>3</sup> )	0 mesh)
SIZE	CODE
10 kg (22 lb) – pail	711703

#### RECOMMENDATIONS

- Do not freeze or expose to temperatures above 35°C (95°F).
- · Store the product at constant temperature at all times.
- Do not blend with fertilizers.
- Refer to the list of compatible pesticides at PTAGTIV.COM/en/compatibility.

The following plant families cannot be colonized (no effect on plant) by the fungus contained in AGTIV®: Brassicaceae (broccoli, cabbages. cauliflower, radish, rutabaga, watercress), Chenopodiaceae (beets, spinach), Ericaceae (blueberries, cranberries).

PTAGTIV.COM/en/onions



#### **IN-FURROW**

#### DIRECTIONS FOR USE

Apply directly in furrow at a rate of 50 g ( $^{1}/_{3}$  cup) per 100 m row length (0.33 lb/1000 ft).

### **INCORPORATION INTO GROWING MEDIA**

#### DIRECTIONS FOR USE

Mix thoroughly into the growing media before filling the trays (Table 2).

Table 2 – Quantity of AGTIV® to use per volume of growing media			
Cell or	Qty of product	Qty of product	Qty of inoculated
container	to add/m³	to add/yd <sup>3</sup>	media with
volume	of media	of media	AGTIV <sup>®</sup> /10 kg pail
40-200 ml	4.2 kg (6.5 L)	7 lb (20 ½ cups)	2.4 m <sup>3</sup> (3.1 yd <sup>3</sup> )
200-500 ml	2.8 kg (4.3 L)	4.7 lb (14 cups)	3.6 m <sup>3</sup> (4.7 yd <sup>3</sup> )
500 ml or more	1.4 kg (2.2 L)	2.4 lb (7 cups)	7.1 m <sup>3</sup> (9.2 yd <sup>3</sup> )

This product is not recommended for cell sizes smaller than 40 ml.

### TRANSPLANTING

#### DIRECTIONS FOR USE

Apply the product at the bottom and on the sides of the planting hole. Product must be in direct contact with roots.

BERRIES	FRUIT TREES	
1.8 g (½ tsp)	10 g (1 tbsp)	

# **SPECIALTY CROPS**



# Get more from your seeds

✓ Improved nutrient & water uptake

- ✓ Faster germination & plant establishment
- ✓ Increased plant vigor & performance

## **AGTIV<sup>®</sup> ON SEED<sup>™</sup>**

AGTIV<sup>®</sup> ON SEED<sup>™</sup> is a specially designed seed treatment technology integrating active ingredients to promote healthy emergence and greater seedling vigor that increases: UNIFORMITY • YIELD • QUALITY.

With the AGTIV® ON SEED^{\rm TM} proven technology, you have access to a certified seed treatment backed by a close partnership with seed treaters for technology integration, compatibility with other inputs and quality control.

#### **ACTIVE INGREDIENTS:**



Validate with your representative which active ingredients are currently available for your specialty crops.





PTAGTIV.COM/en/onseed

# **CELEBRATING DECADES OF INNOVATION AND VALUE**



Established manufacturer and marketer, Premier Tech builds on innovation and collaboration with local partners and growers to offer reliable high-quality inoculants. Every day, in our labs, facilities, and in the field, highly experienced scientists, engineers, and specialists from various domains collaborate to maximize the outcomes of research and turn them into effective products making a difference on your bottom line.







## PRODUCTION

In 2000, Premier Tech set up a world-first endomycorrhizal inoculum plant, developing a new mycoreactor process for industrial scale production. Backed by more than 35 years of expertise in active ingredients, Premier Tech constantly develops and innovates in terms of production of mycorrhizae, rhizobium and other active ingredients:

- ✓ No contamination through a strictly controlled and aseptic environment
- ✓ Large-scale manufacturing production
- ✓ Adapted quality control for each step of the production processes, ensuring consistent high-quality inoculum

## FORMULATION

Premier Tech's know-how makes it possible to adapt formulations with multiple active ingredients, concentrations and carriers tailored to different crops and application methods. Because a quality inoculant makes all the difference, our proven formulations are based on these important elements:

- ✓ Carrier compatible with the active ingredients
- ✓ Formulations that guarantee active ingredient viability until use
- ✓ Quality control at several key points ensuring the performance of active ingredients
- ✓ Various formulations also tailored for organic production

CLICK HERE

Caring about our clients' performance, each recommendation for product use takes into consideration validation by our field experts and by farmers themselves, which ensures:

- Seasy integration into farming practices

## **APPLICATION**



Seffective application rates, at the right time and place, with the right inoculant

✓ Products adapted to growers' equipment

✓ Validation of compatibility with other agricultural inputs SERVICE

The AGTIV<sup>®</sup> experience combines highly effective value-added products and the access to a team of field experts dedicated to supporting your growth. From our management team and research project managers to our field specialists, our multidisciplinary team is listening to growers' needs to continuously improve our products and level of service:

- Technical support for product application, equipment compatibility and field demonstration
- ✓ Proud promoter of science education and knowledge sharing
- ✓ Partnership with agriculture retailers throughout Canada, the United States and Europe



### PEOPLE AND TECHNOLOGIES MAKING A DIFFERENCE

Making a difference, this is what we are all about at Premier Tech. One team driven by a shared passion to deliver solutions that will better the lives of people, businesses and communities. At Premier Tech, People and Technologies connect in lasting, transformative ways, giving life to products and services that help feed, protect and improve our world. We are committed to creating sustainable solutions that help bring beautiful gardens to life, increase crop yields, improve the efficiency of manufacturing facilities, treat and recycle water, and much more as we keep innovating.



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