

AGTIVE

DESIGNED BY NATURE. PERFECTED BY SCIENCE.



2024 · 2025

PROFESSIONAL INOCULANTS CATALOG





100 YEARS, AND BEYOND

Premier Tech is a leader in the innovation of quality reliable inoculants for landscaping, nursery, turf, fruit and vegetable crops. Thanks to its numerous manufacturing facilities and vast distribution network, products are offered from coast to coast, throughout North America.

With tomorrow in mind, Premier Tech is 100 years young and always making a difference with passion.

OF EXPERTISE IN

Backed by 40 years of expertise in biological active ingredients, Premier Tech masters a unique large-scale manufacturing process in aseptic laboratories that meets the highest quality control standards, allowing you to fully benefit from its proven consistency of viable spores, no contamination, and reliable active ingredients. It's how we make a difference.

AGTIV

DESIGNED BY NATURE. PERFECTED BY SCIENCE.

Born from nature and perfected by science, AGTIV® is an innovative technology brand of high-quality and proven natural active ingredients that deliver superior performance.

Providing reliable, ready-to-use inoculants for crop production, plant installation or establishment, and making our customers benefit from these technologies is our goal.

MYCORRHIZAL INOCULANTS DESIGNED FOR PROFESSIONALS

"Landscaping & Nurseries" for details.



L	AGTIV® REACH™ G TURF F: Granules (zeolite) S: 20 kg (44 lb) bag C: Turf: 1000 m² (10765 ft²)	*			•	•	**	AGTIV.
TURF	AGTIV® REACH™ P for Seed Mixing F: Powder (kaolin clay) S: 2 kg (4.4 lb) pail C: Turf: 2.7 ha (6.6 acres)	⊘ *	•		•			G TURF GAZON

AGTIV[®] REACH™ G F: Granules (peat) **S:** 6 kg (13.2 lb) pail 18.2 kg (40 lb) bag C: Vegetables, herbs, berries & fruit trees: see page "Multi-Crops" for details. **AGTIV** AGTIV® REACH™ P **S:** Case of 4 x 800 g (4 x 1.75 lb) pails C: Vegetables, berries & garlic: see page "Multi-Crops"





ENDOMYCORRHIZAE PTB297 Technology, *Rhizophagus irregularis*

ECTOMYCORRHIZAE

Pisolithus tinctorius Rhizopogon amylopogon Rhizopogon fulvigleba Rhizopogon villosulus

Rhizopogon luteolus

F: Formulation

S: Size

C: Crop/Coverage ✓ For organic use

* USA only













- Minimizes transplant shock
- **⊘** Ensures faster establishment
- Reduces watering needs

LANDSCAPING & NURSERIES





GRANULAR

AGTIV® REACH™ G for Landscaping & Nurseries



ACTIVE INGREDIENTS:



M ENDOMYCORRHIZAE

PTB297 Technology, Rhizophagus irregularis: 15 viable spores/g

ECTOMYCORRHIZAE

Pisolithus tinctorius: 100 000 spores/g Rhizopogon amylopogon: 7500 spores/g Rhizopogon fulvigleba: 7500 spores/g Rhizopogon villosulus: 7500 spores/g Rhizopogon luteolus: 7500 spores/g

Ascophyllum nodosum: 0.4%



INERT INGREDIENTS: Perlite, peat

SIZE	CODE
$12 \times 500 \text{ g} (12 \times 1.5 \text{ L} - 12 \times 1.4 \text{ US dry qt}) - \text{bags}$	714504
4 kg (12 L - 10.9 US dry qt) - bag	714511
10 kg (30 L - 27.2 US dry qt) - bag	714501

DIRECTIONS FOR USE

INCORPORATION INTO GROWING MEDIA

Mix inoculant thoroughly into the growing media before filling the containers. Incorporate gradually while mixing for an even distribution.

Volume of growing media treated per 12 L bag of AGTIV®		
Container volume	Volume of growing media treated	
500 ml or less	8.5 ft ³ (240 L)	
500-1500 ml	10.6 ft ³ (300 L)	
1500 ml or more	14.1 ft ³ (400 L)	

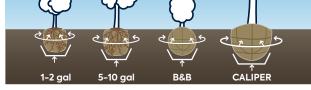
TRANSPLANTING INTO CONTAINERS — When transplanting, apply the product directly on roots or in the container. Refer to the application chart below.

TRANSPLANTING INTO SOIL

TREES AND SHRUBS — 1. Dig planting hole approximately twice the size of the transplant's root ball. 2. Spread this product all around the root ball where new root growth will occur and cover sides and bottom of planting area. Refer to the application chart below. Be sure that the roots are in contact with the product. 3. Position transplant in the center of the planting hole and fill the remaining area around the root ball with soil. 4. Water to settle planting area.

ANNUALS, PERENNIALS AND BULBS — Apply directly to the roots or in the planting hole at a rate of 30 ml (2 Tbsp) per plant and 15 ml (1 Tbsp) per bulb.

Required quantity					
Container	AGTIV®				
Guillaniei	Cup	ml			
Plugs	1/16	15			
4 in.	1/8	30			
#1	1/4	65			
#2	1/2	125			
#5	1	250			
#10	1 ½	375			
#20	2	500			
Caliper	AGTIV®				
·	Cup	ml			
1.0-1.5 in. (25-40 mm)	2	500			
1.6-2.0 in. (41-50 mm)	3	750			
2.1-2.5 in. (51-65 mm)	4 5	1000			
2.6-3.0 in. (66-75 mm)		1250			
3.1-4.0 in. (76-100 mm)	6	1500			
4.1 in. + (101 mm +)	7 ½	1875			
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(C) 4	ر				
Y I	\mathcal{C}				
2775 2	6 20 6	,			







POWDER

AGTIV® REACH™ P for Landscaping & Nurseries



ACTIVE INGREDIENTS:

M ENDOMYCORRHIZAE

PTB297 Technology, Rhizophagus irregularis: 400 viable spores/g

ECTOMYCORRHIZAE

Pisolithus tinctorius: 6 600 000 spores/g Rhizopogon amylopogon: 107 000 spores/g Rhizopogon fullvigleba: 107 000 spores/g Rhizopogon villosulus: 107 000 spores/g Rhizopogon luteolus: 107 000 spores/g

Humic acids: 3% Ascophyllum nodosum: 2%

INERT INGREDIENTS: Kaolin clay, peat powder

PARTICLE SIZE: 0.15 mm (100 mesh)

SIZE	CODE
2 x 500 g (2 x 1.1 lb) - bags	714704

DIRECTIONS FOR USE

INCORPORATION INTO GROWING MEDIA

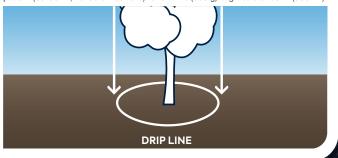
Mix the quantity of product shown in the table into the growing media. For a better homogeneity, premix the recommended quantity of product to a part of the growing media or one of the substrate ingredients. Mix well until homogeneity before filling

Quantity of product to use per volume of growing media				
Container volume	Quantity of product to add per yd³ of media	Quantity of product to add per m³ of media		
500 ml or less	4 cups (475 g)	5 ½ cups (625 g)		
500-1500 ml	3 ½ cups (380 g)	4 ½ cups (500 g)		

BARE ROOTS DIPPING

Just before planting, coat the bare roots with the product. One 1.1 lb (500 g) bag can treat up to 660 bare roots (according to plant size).

MATURE TREES AND SHRUBS — This application is recommended when treatments requiring injection work in the root zone must be carried out. Add one 1.1 lb (500 g) bag of this product to 370 gallons (1400 liters) of clean, non-chlorinated water. Agitate thoroughly. Inject the mixed product into the upper 8-10 in. (20-25 cm) of the root zone with the use of a soil probe. Treat the root zone under the canopy and beyond the drip line. Inject at a rate of 35 fl. oz (1 liter) per injection hole in a grid pattern (30-36 in., 75-90 cm centers). One 1.1 lb (500 g) bag treats 9150 ft2 (850 m2).



The following plant families cannot be colonized by the endomycorrhizal fungi contained in AGTIV®: Orchidaceae (orchids), Ericaceae (rhododendron, blueberries), Brassicaceae (cabbages), Amaranthaceae (kochias), Cariophyllaceae (carnations), Lupins.



GRANULAR

AGTIV® REACH™ G **TURF**



MYCORRHIZAE – PTB297 Technology Rhizophagus irregularis: 12 viable spores/g

INERT INGREDIENT: Zeolite

ACTIVE INGREDIENT:

PARTICLE SIZE: 0.4 mm to 1.4 mm (14-40 mesh)

SIZE	COVERS	CODE
20 kg (44 lb) - bag	1000 m ² (10,765 ft ²)	713701

DIRECTIONS FOR USE

LAYING SOD, SEEDING, BROADCAST

At seeding, when laying sod or for turf maintenance, incorporate granules into the rooting zone at a rate of 4 lb per 1000 ft² (2 kg per 100 m²). Water well after placing the inoculum. This product can also be used when seeding wildflowers.

AGTIV® REACH™ P for Seed Mixing



ACTIVE INGREDIENT:

MYCORRHIZAE - PTB297 Technology

Rhizophagus irregularis: 3200 viable spores/g

INERT INGREDIENT: Kaolin clay

PARTICLE SIZE: < 1 mm (18 mesh)

SIZE	COVERS	CODE
2 kg (4.4 lb) - pail	2.7 ha (6.6 acres)	713903

POWDER

DIRECTIONS FOR USE

Mix uniformly with seeds at a rate of 0.25 oz per 1000 ft² (7.5 g per 100 m²) of seeds. This product may "bulk up" seeds. It is important to calibrate the equipment to ensure correct seeding rate is attained. Avoid using the product with wet equipment.

HYDROSEEDING

Apply at a rate of 0.25 oz per 1000 ft² (7.5 g per 100 m²) of surface area to seed. Avoid mixing with fertilizers and pesticides. Rinse well the tank prior to introducing product and after application.

TURF



13% **INCREASE IN TURF DENSITY**

⊘ Ensures faster

needs

structure

establishment

⊘ Reduces watering



- **⊘** Increases plant establishment and survival
- structure and reduces erosion
- **⊘** Produces more vigorous plants

AGTIV® REACH™ P

ACTIVE INGREDIENT:



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	CODE
4 x 800 g (4 x 1.75 lb) - pails	712324

DIRECTIONS FOR USE

TRANSPLANTING

VEGETABLE TRANSPLANTS OR BARE-ROOT BERRIES — Right before planting, coat the root plugs or the bare roots with the product. A 800 g pail of product can treat up to 117 000 transplants or 21 300 bare roots (according to plant size).

ASPARAGUS — Right before planting, coat the bottom of the crown with the product. The recommended quantity is 38 g (80 ml) for 1 000 crowns.

INCORPORATION INTO GROWING MEDIA

Mix the quantity of product into the growing media. For application chart, visit PTAGTIV.COM/en/REACH-P. 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.

MIXING WITH SEEDS

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® with wet equipment. When seeding, ensure full seed-soil contact to minimize any desiccation

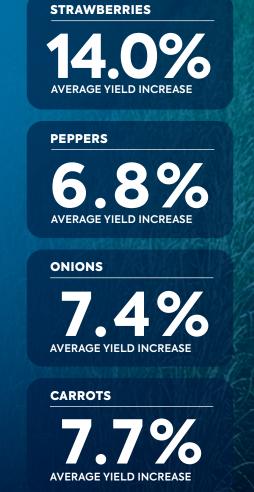
Table 1 – Qua	Table 1 – Quantity of AGTIV® to use per 1 000 seeds		
Type of seed	g	0Z	ml
Nantes carrot	0.34	0.012	0.7
Market carrot	0.33	0.012	0.7
Spanish onion	0.56	0.020	1.2
Yellow onion	0.41	0.015	0.9
Lettuce	0.42	0.015	0.9
Pea/bean	0.38	0.013	0.8
Cucumber	1.98	0.070	4.2
Squash/pumpkin	4.95	0.170	10.4
Garlic	37.50	1.320	78.9

1 cup equals 240 ml (96 g) of product.

MULTI-CROPS

VEGETABLES, FRUIT TREES & BERRIES





GRANULAR AGTIV® REACH™ G



ACTIVE INGREDIENT:



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	CODE
18.2 kg (40 lb) – bag	712101
6 kg (13.2 lb) – pail	712103

DIRECTIONS FOR USE

IN-FURROW — Apply directly in-furrow at a rate of 40 g (1/4 cup) per 100 m row length (0,26 lb/1000 ft).

INCORPORATION INTO GROWING MEDIA — Mix thoroughly into the growing media before filling the trays.

Quantity of AGTIV® to use per volume of growing media				
Cell or container volume	Qty of product to add/m³ of media	Qty of product to add/yd³ of media		
40-200 ml	3.4 kg (5.6 L)	5.7 lb (18 cups)		
200-500 ml	2.2 kg (3.7 L)	3.8 lb (12 cups)		
500 ml-1500 ml	1.1 kg (1.9 L)	1.9 lb (6 cups)		
1500 ml or more	0.8 kg (1.4 L)	1.4 lb (4.5 cups)		

TRANSPLANTING — 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 1.7 g (1 tsp) 8 g (1 Tbsp)





10 FACTS **ABOUT**

AGTIV®

REACH



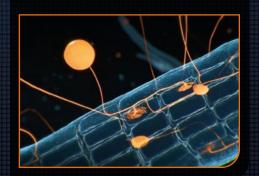
AGTIV® REACH™ HELPS PLANTS REACH AND ABSORB MORE NUTRIENTS AND WATER THANKS TO MYCORRHIZAE



MYCORRHIZAE

Rhizophagus irregularis (formerly known as Glomus intraradices)

- Expands root system
- Enhances nutrient and water uptake
- Promotes plant robustness and vigor



QUICK COLONIZER

Achieve marketable size up to 3 weeks earlier with mycorrhizae^A

> 10x more area for water uptake with mycorrhizae^B.

EFFICIENT

NUTRIENT

UPTAKE

AND WATER

& TRANSFER

From the selection of strains to in-field results, Premier Tech products consistently follow the highest quality standards.

OF EXPERTISE

40 YEARS

COMPLEMENTARY **PARTNERSHIP BETWEEN ENDO & ECTO**

Endomycorrhizae associate with 80% of plants, most deciduous trees and herbaceous plants, and ectomycorrhizae* associate with 15% of plants, most conifers other fungi^D. and evergreens.

VERSATILE & EFFICIENT COLLABORATOR NEVER

80% of plants can be colonized with the collaborative^c mycorrhizal species Rhizophagus irregularis.

MULTIPLE **SPECIES VS ONE**

wonder fungus in several surveys, and field experience so far has shown it to be equal or superior to mixtures of

ALWAYS COMPARED

EQUALED Selected more

than 40 years ago, Premier Tech' species has been tested continuously under various conditions and has demonstrated the efficacy and benefits of the mycorrhizal species *Rhizophagus* irregularis.

VIABLE SPORES VS PROPAGULES

SOIL

POPULATION

mycorrhizal populations

heterogeneous or not

Various articles

demonstrate that

in soils are highly

sufficient to have

beneficial effect.

the desired

Not all spores have the same tolerance or vigor. Premier Tech produces viable spores and guarantees their concentration, their longevity and their ability to colonize plant roots.

Rhizophagus irregularis **BETTER SOIL** has turned up as a **STRUCTURE**

Mycorrhizae play a major role in the soil particle aggregation process leading to improved soil structure.

Learn more

Sources:

A Vege review. C. Baum et al. / Scientia Horticulturae 187 (2015) 131-141.

B Jones, C. E. 2009. Mycorrhizal fungi – powerhouse of the soil. Evergreen Farming 8:4-5.

Kiers et al. 2011. Reciprocal Rewards Stabilize Cooperation in the Mycorrhizal Symbiosis, Science 333:80-882.

Anusuya, D. (2007) Vesicular Arbuscular Mycorrhizal Biotechnology: Current Trends and Futures Prospects.

In: Trivedi P.C. (eds) Organic Farming and Mycorrhizae in Agriculture. I.K. International Publishing House pp.125-134.

CLICK HERE

*Ectomycorrhizae are offered in AGTIV® REACH™ G for Landscaping & Nurseries and AGTIV® REACH™ P for Landscaping & Nurseries.

CELEBRATING DECADES OF INNOVATION AND VALUE



Established manufacturer and marketer, Premier Tech builds on innovation and collaboration with local partners and clients 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.

Learn more



CLICK HERE





PRODUCTION

In 2000, Premier Tech set up a world-first endomycorrhizal inoculum plant, developing a new mycoreactor process for industrial scale production. Backed by 40 years of expertise in active ingredients, Premier Tech constantly develops and innovates in terms of production of MYCORRHIZAE, RHIZOBIUM, BACILLUS, SERENDIPITA 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:

- Carriers 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 tailored for organic production



APPLICATION

Caring about our clients' success,

each recommendation for

consideration validation by

themselves, which ensures:

our field experts and by users

Effective application rates.

with the right inoculant

professional equipment

✓ Validation of compatibility

✓ Products adapted to

with other inputs

at the right time and place,

product use takes into



SERVICE

The AGTIV® experience combines highly effective value-added products and the access to a team of field experts dedicated to supporting your growth. From our management and research teams to our field specialists, our multidisciplinary team is listening to clients' 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 distributors and green good suppliers throughout Canada, the United States and Europe

AGTIV. PROMIX











	RECOMMENDATIONS CHART	for Landscaping & Nurseries	for Landscaping & Nurseries	P for Seed Mixing	G Turf	Р	G
	APPLICATION						
	After coating, seed within			8h		8h	
	Apply within 8 hours after mixing into the tank	•		•			
10	Avoid using the product with wet equipment			•	•	•	•
ž	Ensure full seed-soil contact when seeding			•		•	
Ĕ	To avoid flow problems, do not fill tank or seed cart completely						•
\$	Ensure the tank and the liquid application system are clean and free of chemical residues	•		•			
é	Apply to seed once treatment is dry			•		•	
RECOMMENDATIONS	Remove filters and use nozzles with openings of a minimum of 1 mm (18 mesh) to avoid clogging	•					
<u>ш</u>	Maintain a constant and effective agitation in the tank during application	•		•			
	Pump pressure must not exceed 200 psi	•					
	Ensure the temperature of the diluted tank mix doesn't exceed	25°C (77°F)		25°C (77°F)			
	CALIBRATION						
	Calibrate the application system to deliver the correct amount of product			•	•	•	•
	COMPATIBILITY						
	Do not mix with fertilizers	•	•	•	•	•	•
	Refer to the list of compatible pesticides and fertilizers on the website	•	•	•		•	
	Do not mix this product and fungicide seed treatments in the same tank			•		•	
	STORAGE						
	Do not freeze or expose to temperatures above	35°C (95°F)	35°C (95°F)	35°C (95°F)	35°C (95°F)	35°C (95°F)	35°C (95°F)
	Store the product at constant temperature, in a dry cool shaded place	•	•	•	•	•	•

USAGES

AGTIV® REACH™

LANDSCAPING

& NURSERIES

TURF

AGTIV® REACH™ AGTIV® AGTIV®

MULTI-CROPS

AGTIV®

REACH™ REACH™ REACH™ REACH™





TOOLBOX

Brochures, labels, organic certificates and SDS

PTHORTICULTURE.COM/toolbox-t



COMPATIBILITY

Pesticide compatibility lists Liquid fertilizer compatibility lists

PTHORTICULTURE.COM/compatibility-tl



RESULTS

Efficacy report

PTHORTICULTURE.COM/results-tl



EDUCATION

Articles

PTHORTICULTURE.COM/blog



PROGRAM

Landscaping Program

PTHORTICULTURE.COM/agtiv-landscaping-program





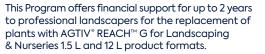






2-YEAR **WARRANTY**









PEOPLE AND TECHNOLOGIES MAKING A DIFFERENCE

At Premier Tech, we are all about making a difference by connecting People and Technologies for more than 100 years. One team driven by a shared will to deliver sustainable solutions that help feed, protect and improve our world. Premier Tech has a wide range of products, services, brands, and technologies allowing to increase crop yields, bring beautiful gardens to life, automate the handling and packaging operations of many manufacturing facilities, treat and recycle water, support companies in their digital transformation, and offer bio-ingredients for the well-being of humans and animals.







PT Growers and Consumers

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