



AGTIV[®]

POTATO GUIDE 2027

AGTIV®

DESIGNED BY NATURE. PERFECTED BY SCIENCE.



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AGTIV®

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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.

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



Quebec (Canada)



Ontario (Canada)



Quebec (Canada)



Quebec (Canada)



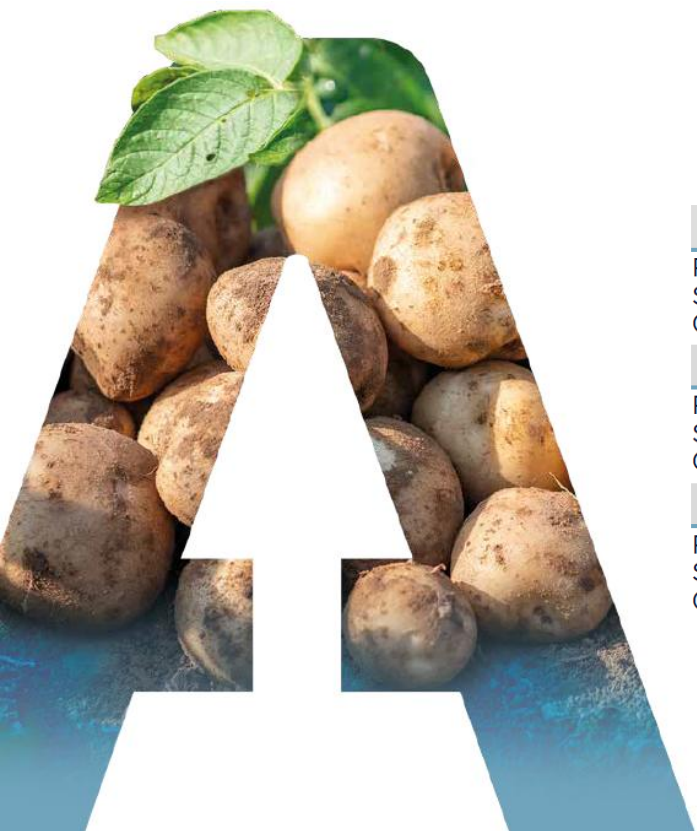
Pays de la Loire (France)



Artois (France)

AGTIV REACH® & AGTIV STIMULATE®

POTATO



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

AGTIV REACH® L POTATO

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

M	✓	●	●		💧
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AGTIV REACH® P POTATO

F: Powder (diatomaceous earth)
 S: Case of 2 x 300 g (2 x 10.5 oz) bag
 C: **Potato: 16 ha (40 ac)**

M	*	●	●		🌫️
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AGTIV STIMULATE® L POTATO

F: Liquid
 S: 8 L (8 kg) bag-in-box
 C: **Potato: 8 ha (20 ac)**

B	✓	●			💧
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AGTIV REACH® & AGTIV STIMULATE®

IN-FURROW APPLICATION OR SEED-PIECE TREATMENT

AGTIV REACH® L POTATO



ACTIVE INGREDIENT:

M MYCORRHIZAE - PTB297 Technology
Rhizophagus irregularis: 10 500 viable spores/g

COVERS
20
acres

INERT INGREDIENT: Water

PARTICLE SIZE: < 0.2 mm (70 mesh)

Contains non-soluble particles

SIZE	COVERS	CODE
2 x 950 ml (2 x 32 fl. oz) - bottles	8 ha (20 ac)	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:

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

COVERS
40
acres

INERT INGREDIENT: Diatomaceous earth

PARTICLE SIZE: < 0.2 mm (70 mesh)

SIZE	COVERS	CODE
2 x 300 g (2 x 10.5 oz) - pouches	16 ha (40 ac)	711104

DIRECTIONS FOR USE

Pour the content of a 300 g pouch into 5.7 litres of clean and non-chlorinated 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:

B BACILLUS - PTB185 Technology
Bacillus inaquosorum: 2 x 10⁸ viable spores/g

COVERS
20
acres

INERT INGREDIENT: Water

PARTICLE SIZE: < 0.1 mm (150 mesh)

Contains non-soluble particles

SIZE	COVERS	CODE
8 L (8 kg) - bag-in-box	8 ha (20 ac)	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® & AGTIV STIMULATE®

RECOMMENDATIONS

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.

AGTIV REACH® L

8 RULES TO SUCCESS

- 1  Product must be refrigerated (2-8 °C, 26-46 °F) and stored at a constant temperature at all times. Do not freeze.
- 2  Use filters with openings of at least 0.28 mm (50 mesh).
- 3  Use the diaphragm pump for product application (or peristaltic pump).
- 4  Shake the bottle well before use and maintain a constant and effective agitation in the tank during application.
- 5  Band width should be limited to 7 in (18 cm) or less.
- 6  Do not treat seed pieces more than 48 hours before seeding.
- 7  Apply within 6 hours after mixing into the liquid tank.
- 8  Do not use after the best before date indicated on the label.



AGTIV[®] LIQUID INJECTION KIT

Precise in-furrow application for AGTIV[®] liquid inoculants

- **Precise placement** directly in the furrow, near the seed
- **Easy integration** with the planter's existing in-furrow liquid system
- Designed to **protect mycorrhizae spore integrity**

See [installation video](#) for setup details.



AVERAGE YIELD INCREASE

AGTIV®



POTATO



31.5 cwt/ac
9.1%

AGTIV REACH® POTATO

1202 sites over 15 years, North America and Europe

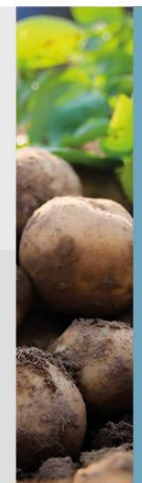
+



+10.3 cwt/ac

AGTIV REACH® + AGTIV STIMULATE®

16 third-party trials over 4 years, North America



[CLICK HERE FOR DETAILS](#)

EFFICACY REPORT

SUMMARY – MYCORRHIZAL INOCULANT

► GROWER SPLIT FIELDS AND TRIALS

Research sites:

- Belgium;
- Canada;
- France;
- Germany;
- Mexico;
- Switzerland;
- United States.

Treatments*:

- a) Untreated;
- b) AGTIV REACH® L POTATO.

* Applied as recommended by the manufacturer.

Experimental design:

- Randomized Complete Block Design: 21 trials (4-8 repetitions each)
- Split plot block: 1 trial (6 repetitions)
- Split field: 1180 demos

Table 1. Average increase of marketable yield* per region

Territory	Number of sites	Yield increase (t/ha)	Yield increase (cwt/ac)	Yield increase (%)
Canada	603	3.1	27.6	9.2
United States	67	3.3	29.8	10.8
Mexico	4	2.3	20	8.6
Belgium, France & Switzerland	496	4.1	36.3	9.9
Germany	32	4.2	37.4	10
Total	1 202 sites	3.6 t/ha*	31.5 cwt/ac**	9.1%

Table 2. Average increase of marketable yield* per year

Year	Number of sites	Yield increase (t/ha)	Yield increase (cwt/ac)	Yield increase (%)
2011	32	2.6	23.3	6.6
2012	33	3.2	28.5	9
2013	70	3.6	31.9	11.2
2014	116	4.5	40.3	12.8
2015	145	4	35.3	10.7
2016	243	3.9	34.8	10.5
2017	213	2.7	24	7.7
2018	113	3.4	30.2	11.2
2019	117	3.5	31.1	8.6
2020	49	2.9	25.6	9.8
2021	41	4.1	36.4	10.2
2022	12	3.4	29.2	7.8
2023	13	2.7	23.9	8
2024	2	2.1	18.7	8.7
2025	3	2.2	19.5	6.5
Total	1 202 sites	3.6 t/ha*	31.5 cwt/ac**	9.1%

* Statistically significant at p<001 following a T test.

**cwt/ac = 100 lb/ac

EFFICACY REPORT

SUMMARY – MYCORRHIZAL & BACILLUS INOCULANT



► PLOT TRIALS

Research partners:

- Atlantic AgriTech Inc.;
- ICMS;
- New-Marc Research Inc.;
- Prairie Ag Research Inc.;
- Progest inc.;
- Tall Pines Agricultural Research Ltd.;
- Wellington Agricultural Research.

Research sites:

- Alberta;
- Manitoba;
- Ontario;
- Prince-Edward Island;
- Quebec.

Treatments*:

- a) AGTIV REACH® L POTATO;
- b) AGTIV REACH® L POTATO + AGTIV STIMULATE® POTATO.

* Applied as recommended by the manufacturer.

Experimental design:

- Randomized Complete Block Design: 3 trials (6 repetitions each)
- Latin square: 13 trials (5-6 repetitions each)

Table 1. **Average increase of marketable yield* in cwt/ac per trial**

Year	Sites	AGTIV REACH®	AGTIV REACH® and AGTIV STIMULATE®	Yield increase*
2021	Sainte-Croix	320.3	319.3	-1
	Saint-Marc	107.8	112.8	5
	New Glasgow	242.1	247.4	5.3
	Rockwood	279.7	322.3	42.6
	Elmira	320.7	343.9	23.2
2022	Saint-Marc	145.4	142.2	-3.2
	Newton	235.9	237.8	1.9
	Newton	92.5	109.3	16.8
	Rockwood	402.5	429	26.5
2023	New Glasgow	413.1	425.6	12.5
	Raymond	138.5	141.1	2.6
	Underhills Farm	361.8	360	-1.8
	Newton	282.4	291.2	8.8
	Newton	482.7	502.3	19.6
2024	Portage la Prairie	238	235.7	-2.3
	Raymond	228	236.3	8.3
Average	16 sites	268.2^a	278.5^b	10.3 cwt/ac

*Comparison of the double inoculation vs AGTIV REACH® L POTATO

^{a,b}Yields with different letters are statistically different according (Tukey HSD test (p<0.05)).

COMPATIBILITY

PESTICIDES AND FERTILIZERS

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.

PESTICIDES

LIQUID FERTILIZER
IN-FURROW

LIQUID FERTILIZER
ON SEED

AGTIV[®]

TECHNOLOGIES

MORE THAN
40
years
OF EXPERTISE IN
ACTIVE INGREDIENTS

AGTIV[®] THRIVE

AGTIV THRIVE[®] POWERS PLANTS BY BOOSTING NITROGEN FIXATION, NUTRIENT AND WATER ABSORPTION THANKS TO **MYCORRHIZAE & RHIZOBIUM**

+ MYCORRHIZAE + RHIZOBIUM

PTB297 Technology
+
PTB160 (pea & lentil)
PTB161 (chickpea)
PTB162 (soybean)

- + Enhances P uptake
- + Provides more energy for better nitrogen fixation
- + Increases photosynthesis



AGTIV[®] ENRICH

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

+ RHIZOBIUM + BACILLUS

PTB162 Technology
+
PTB180 Technology

- + Increases nodulation and nitrogen fixation
- + Improves rooting environment
- + Enhances plant vigor and productivity



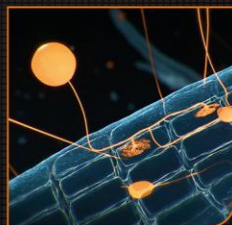
AGTIV[®] REACH

AGTIV REACH[®] HELPS PLANTS REACH AND ABSORB MORE NUTRIENTS AND WATER THANKS TO **MYCORRHIZAE**

M MYCORRHIZAE

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

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



AGTIV[®] IGNITE

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

S SERENDIPITA

PTB299 Technology,
Serendipita indica

- + Mitigates abiotic stresses
- + Increases photosynthesis rate
- + Enhances plant establishment, growth and yield



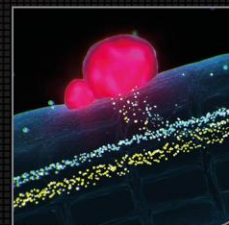
AGTIV[®] FUEL

AGTIV FUEL[®] FEEDS LEGUMES BY FIXING ATMOSPHERIC NITROGEN THANKS TO **RHIZOBIUM**

R RHIZOBIUM

PTB160 Technology
(pea & lentil) *Rhizobium leguminosarum biovar viciae*
PTB161 Technology (chickpea)
Mesorhizobium ciceri
PTB162 Technology (soybean)
Bradyrhizobium japonicum

- + Increases nodulation
- + Fixes nitrogen
- + Provides nutrients to pulses



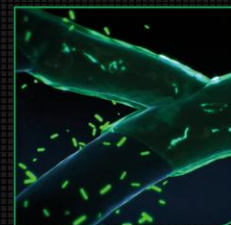
AGTIV[®] STIMULATE

AGTIV STIMULATE[®] REINFORCES PLANTS WITH A HEALTHY ROOT ZONE THANKS TO **BACILLUS**

B BACILLUS

PTB180 Technology,
Bacillus pumilus
PTB185 Technology,
Bacillus halotolerans

- + Stimulates rooting environment
- + Improves plant establishment
- + Increases plant vigor and productivity



AGTIV[®] UPTAKE

AGTIV UPTAKE[®] ENHANCES FERTILIZER AND SOIL NUTRIENT UPTAKE THANKS TO BENEFICIAL **BACTERIA**

B BACTERIA

PTB101 Technology,
Bacillus velezensis
PTB108 Technology,
Bacillus halotolerans
PTB124 Technology,
Pseudomonas putida

- + Improves soil nutrient assimilation
- + Promotes better fertilizer use
- + Enhances plant stress resistance and growth



Learn more at

[PTAGTIV.COM/en/technologies](https://ptagtiv.com/en/technologies)

AGTIV®

RELIABLE INOCULANTS

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

PEA, LENTIL & FABA BEAN

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 ac)** - Pail 2.4 kg: **8 ha (20 ac)**
C: **Pea:** Pail 4.7 kg: **24 ha (60 ac)**

M	✓	•	•	•	•
R					

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 ac)** - Tote bag: **80 ha (200 ac)**

M	✓	•	•	•	•
R					

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 ac)**

M	✓	•	•	•	•
R					

AGTIV FUEL® P PEA & LENTIL

F: Powder (peat)
S: 4.7 kg (10.3 lb) pail
C: **Pea & faba bean:** **16 ha (40 ac)**
C: **Pea:** **24 ha (60 ac)**

R	✓	•	•	•	•

AGTIV FUEL® 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 ac)** - Tote bag: **80 ha (200 ac)**

R	✓	•	•	•	•

AGTIV FUEL® L PEA & LENTIL

F: Liquid
S: 8 L (8 kg) bag-in-box
C: **Pea, lentil & faba bean:** **32 ha (80 ac)** or **6530 kg of seeds (240 bu)**

R	✓	•	•	•	•

SOYBEAN

AGTIV THRIVE® P SOYBEAN

F: Powder (peat)
S: 4.7 kg (10.3 lb) pail
C: **Soybean:** **16 ha (40 ac)**

M	✓	•	•	•	•
R					

AGTIV THRIVE® G SOYBEAN

F: Granules (peat)
S: 18.2 kg (40 lb) bag - 364 kg (800 lb) tote bag
C: **Soybean:** Bag: **4 ha (10 ac)** - Tote bag: **80 ha (200 ac)**

M	✓	•	•	•	•
R					

AGTIV THRIVE® SOYBEAN

F: Liquid
S: Combo box: 8 L (8 kg) bag-in-box + 2 x 950 ml (2 x 32 fl. oz) bottles
C: **Soybean:** **16 ha (40 ac)**

M	✓	•	•	•	•
R					

AGTIV FUEL® G SOYBEAN

F: Granules (peat)
S: 18.2 kg (40 lb) bag - 364 kg (800 lb) tote bag
C: **Soybean:** Bag: **4 ha (10 ac)** - Tote bag: **80 ha (200 ac)**

R	✓	•	•	•	•

AGTIV FUEL® L SOYBEAN

F: Liquid
S: 8 L (8 kg) bag-in-box
C: **Soybean:** **16 ha (40 ac)** or **5680 kg of seeds (250 units)**

R	✓	•	•	•	•

AGTIV ENRICH® SOYBEAN

F: Liquid
S: Combo box: 8 L (8 kg) bag-in-box + 300 ml bottle
C: **Soybean:** **16 ha (40 ac)** or **5680 kg of seeds (250 units)**

R	✓	•	•	•	•
B					

Learn more at
PTAGTIV.COM/en/products



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

CHICKPEA

AGTIV THRIVE® P CHICKPEA

F: Powder (peat)
S: 4.7 kg (10.3 lb) pail
C: **Chickpea:** **16 ha (40 ac)**

M	✓	•	•	•	•
R					

AGTIV THRIVE® G CHICKPEA

F: Granules (peat)
S: 18.2 kg (40 lb) bag - 364 kg (800 lb) tote bag
C: **Chickpea:** Bag: **4 ha (10 ac)** - Tote bag: **80 ha (200 ac)**

M	✓	•	•	•	•
R					

CANOLA, CORN & CEREALS

AGTIV IGNITE® L

F: Liquid
S: 11 L (11 kg) bag-in-box
C: **Canola:** **454 kg (1000 lb) of seeds or 81 ha (200 ac)**
C: **Cereal:** **9165 kg (20 205 lb) of seeds or 81 ha (200 ac)**
C: **Corn:** **3000 kg (6614 lb) of seeds or 121 ha (300 ac)**

S	✓	•	•	•	•

FERTILIZER COMPLEMENT

AGTIV UPTAKE®

F: Liquid
S: Combo box: 3.5 L (3.5 kg) + 3.5 L (3.5 kg) + 7 L (7 kg) bags-in-box
C: **Fertilizer:** **7 to 50 metric tons**, see page "FERTILIZER COMPLEMENT" for details.

B	✓	•	•	•	•

FIELD & SPECIALTY CROPS

AGTIV REACH® P

F: Powder (peat)
S: Case of 4 x 800 g (4 x 1.75 lb) pails
C: **Cereal, flax & dry bean:** **32 ha (80 ac)**
C: **Alfalfa, mix forages & grass:** **16 ha (40 ac)**
C: **Vegetables, berries & garlic:** see page "SPECIALTY CROPS" for details.

M	✓	•	•	•	•

AGTIV REACH® G

F: Granules (peat)
S: 8 kg (13.2 lb) pail - 18.2 kg (40 lb) bag - 364 kg (800 lb) tote bag
C: **Cereal, flax & dry bean:** Bag: **4 ha (10 ac)** - Tote bag: **80 ha (200 ac)**
C: **Alfalfa, mix forages & grass:** Bag: **45 kg of seeds (99 lb)** - Tote bag: **720 kg of seeds (1584 lb)**
C: **Vegetables, herbs, berries & fruit trees:** see page "SPECIALTY CROPS" for details.

M	✓	•	•	•	•

AGTIV REACH® L

F: Liquid (spores in suspension)
S: Case of 2 x 950 ml (2 x 32 fl. oz) bottles
C: **Cereal, flax & bean:** **16 ha (40 ac)**

M	✓	•	•	•	•

POTATO

AGTIV REACH® L POTATO

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

M	✓	•	•	•	•

AGTIV REACH® P POTATO

F: Powder (diatomaceous earth)
S: Case of 2 x 300 g (2 x 10.5 oz) bags
C: **Potato:** **16 ha (40 ac)**

M	•	•	•	•	•

AGTIV STIMULATE® L POTATO

F: Liquid
S: 8 L (8 kg) bag-in-box
C: **Potato:** **8 ha (20 ac)**

B	✓	•	•	•	•

See last page for complete product recommendations.

ACTIVE INGREDIENTS		LEGEND	
M MYCORRHIZAE PTB297 Technology	S SERENDIPITA PTB299 Technology	F: Formulation S: Size C: Crop/Coverage	• Available with EXTENDER™ L for AGTIV® inoculants
R RHIZOBIUM PTB160 Technology (pea & lentil) PTB161 Technology (chickpea) PTB162 Technology (soybean)	B BACTERIA PTB101 Technology PTB108 Technology PTB124 Technology PTB180 Technology PTB185 Technology	FORMULATIONS	
		 Liquid	 Granular
		 Powder	✓ For organic use
			* Not eligible for organic use. Contact us for more details.

ONLINE TOOLS



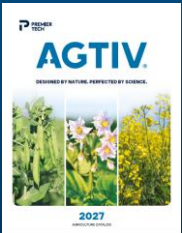
LABELS



EFFICACY REPORT



APPLICATION VIDEOS



BROCHURES



SOCIAL MEDIA

AND MUCH MORE

Safety data sheets, organic certificates

