

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 distant horizon under a pale, overcast sky. In the background, some low hills and utility poles are visible.

# AGTIV<sup>®</sup>

**POTATO** GUIDE 2026

# AGTIV<sup>®</sup>

DESIGNED BY NATURE. PERFECTED BY SCIENCE.



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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® and AGTIV STIMULATE®



## 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 acres) per case

### AGTIV REACH® P POTATO

**F:** Powder  
**S:** Case of 2 x 300 g (2 x 10.5 oz) bag  
**C:** Potato: 16 ha (40 acres) per case

### AGTIV STIMULATE® L POTATO

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

| ACTIVE<br>INGREDIENT(S) | ORGANIC | APPLICATION MODE      |                      |                     |                   | FORMULATION |
|-------------------------|---------|-----------------------|----------------------|---------------------|-------------------|-------------|
|                         |         | GRANULAR<br>IN-FURROW | MIXING<br>WITH SEEDS | LIQUID<br>IN-FURROW | LIQUID<br>ON SEED |             |
| M                       | ✓       |                       |                      | ●                   | ●                 | ●           |
| M                       | *       |                       |                      | ●                   | ●                 | ●           |
| B                       | ✓       |                       |                      | ●                   | ●                 | ●           |



# AGTIV REACH® and 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 (1 case) | CODE (case) |
|--------------------------------------|-----------------|-------------|
| 2 x 950 ml (2 x 32 fl. oz) – bottles | 8 ha (20 acres) | 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](http://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 (case) |
|-----------------------------------|------------------|-------------|
| 2 x 300 g (2 x 10.5 oz) – pouches | 16 ha (40 acres) | 711104      |

#### DIRECTIONS FOR USE

Pour the content of a 300 g pouch into 5.7 liters 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*:  $2 \times 10^9$  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 acres) | 711021 |

#### DIRECTIONS FOR USE

Apply inoculant in the furrow, directly on the seed pieces, at a rate of 1000 ml/ha (400 ml/acre).

# 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](https://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](https://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](https://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.

# 8 RULES TO SUCCESS

# AGTIV<sup>®</sup>



-  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.



# PROGRAM

AGTIV®

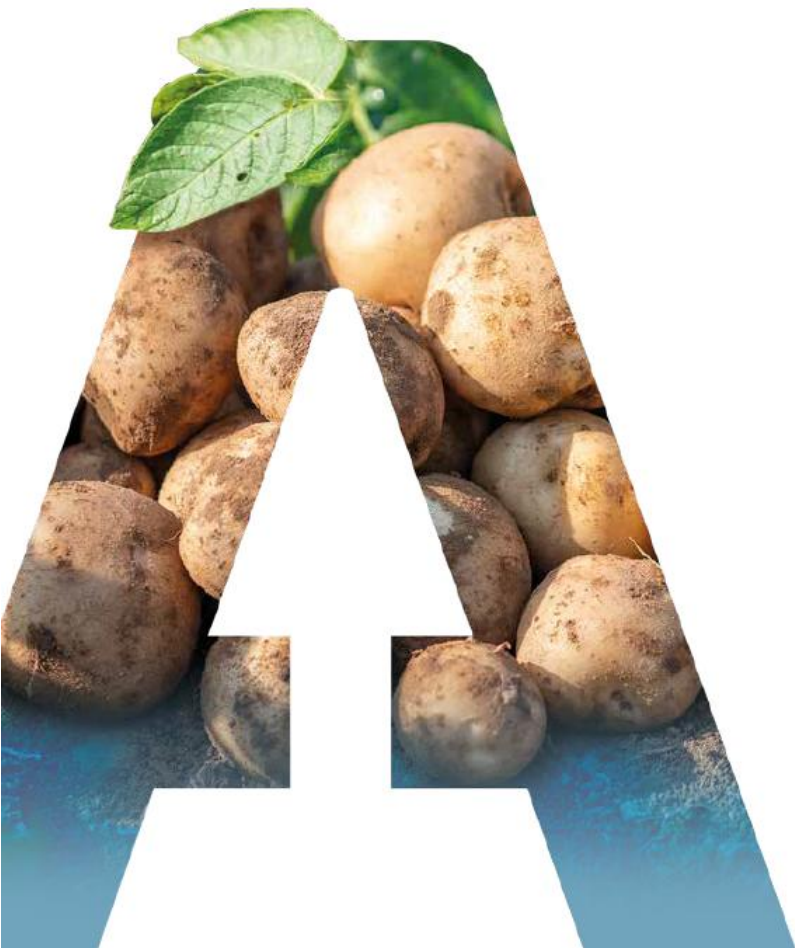
## AGTIV® LIQUID INJECTION KIT

- 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.



# POTATO YIELD RESULTS

**AGTIV**<sup>®</sup>



[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                 |
| <b>Total</b>                  | <b>1 202 sites</b> | <b>3.6 t/ha*</b>      | <b>31.5 cwt/ac**</b>    | <b>9.1%</b>        |

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                |
| <b>Total</b> | <b>1 202 sites</b> | <b>3.6 t/ha*</b>      | <b>31.5 cwt/ac**</b>    | <b>9.1%</b>        |

\* 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                |
| <b>Average</b> | <b>16 sites</b>    | <b>268.2<sup>a</sup></b> | <b>278.5<sup>b</sup></b>          | <b>10.3 cwt/ac</b> |

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

<sup>a,b</sup>Yields with different letters are statistically different according (Tukey HSD test (p<0.05)).



# AGTIV REACH® COMPATIBILITY

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.

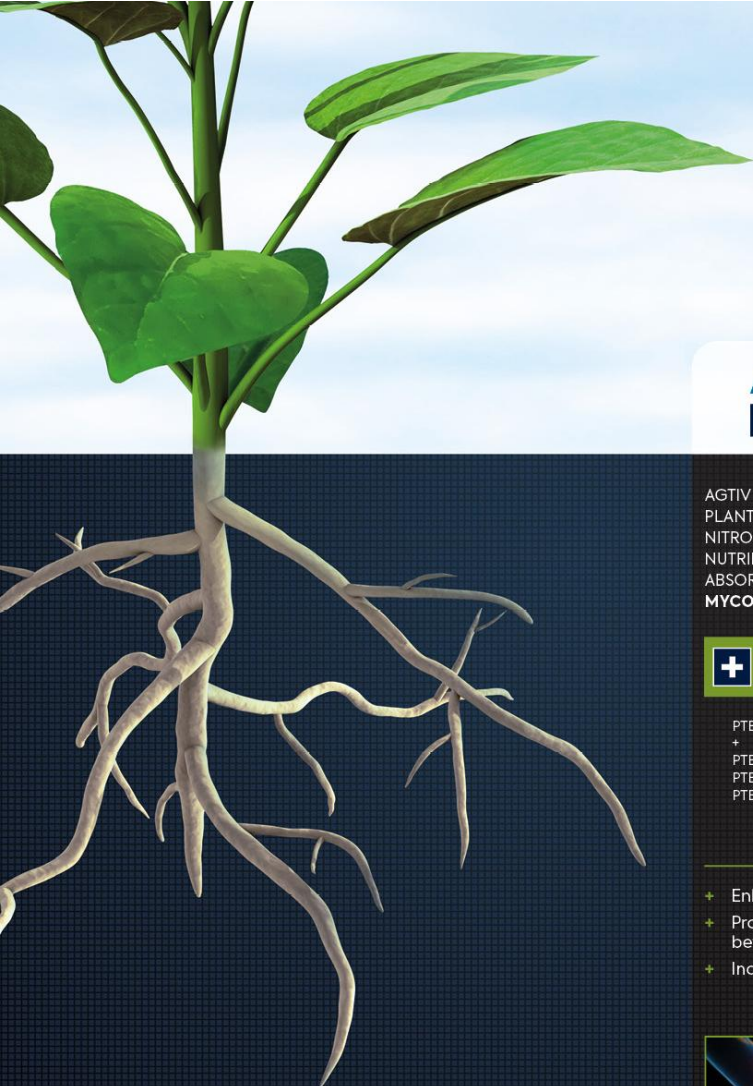
[CLICK BELOW FOR ALL DETAILS](#)

**PESTICIDES**

**LIQUID  
FERTILIZER  
IN-FURROW**

**LIQUID  
FERTILIZER  
ON SEED**





**AGTIV.**  
THRIVE.

AGTIV THRIVE<sup>®</sup> POWERS PLANTS BY BOOSTING NITROGEN FIXATION, NUTRIENT AND WATER ABSORPTION THANKS TO **MYCORRHIZAE & RHIZOBIUM**

**+** **MYCORRHIZAE + RHIZOBIUM**

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

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



**AGTIV.**  
ENRICH.

AGTIV ENRICH<sup>®</sup> 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



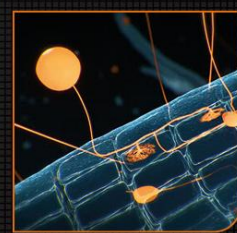
**AGTIV.**  
REACH.

AGTIV REACH<sup>®</sup> 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<sup>®</sup> 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



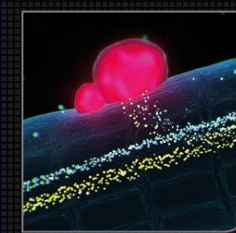
**AGTIV.**  
FUEL.

AGTIV FUEL<sup>®</sup> FEEDS LEGUMES BY FIXING ATMOSPHERIC NITROGEN THANKS TO **RHIZOBIUM**

**R** **RHIZOBIUM**

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

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



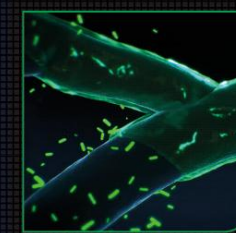
**AGTIV.**  
STIMULATE.

AGTIV STIMULATE<sup>®</sup> REINFORCES PLANTS WITH A HEALTHY ROOT ZONE THANKS TO **BACILLUS**

**B** **BACILLUS**

PTB180 Technology, *Bacillus pumilus*  
PTB185 Technology, *Bacillus inaquosorum*

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



Learn more at

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

CLICK ON A PICTURE TO SEE THE TECHNOLOGY IN ACTION

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

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

**AGTIV® ENRICH**  
Dual action **rhizobium** and **Bacillus** collaborate to ENRICH the plant's nitrogen fixation with a healthy root system.

**AGTIV® STIMULATE**  
Single action **Bacillus** products STIMULATE the plant to grow more efficiently with a healthy root zone.

**AGTIV® IGNITE**  
Single action **Serendipita** products IGNITE plant growth and chlorophyll content for better yields.

**AGTIV® REACH**  
Single action **mycorrhizae** products REACH into the soil and help uptake more nutrients and water.

# 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](https://PTAGTIV.COM/brand)



# ONLINE TOOLS



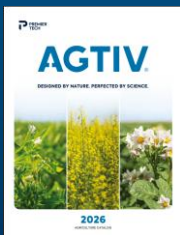
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**EFFICACY REPORT**



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