

**NEW!**

**REGALIA<sup>®</sup> PTO**

## A Powerful Fungicide for Disease Control on Turf

New Regalia<sup>®</sup> PTO controls bacterial and fungal diseases on turf including **Dollar Spot**, **Anthraxnose**, and **Brown Patch**. The active ingredient in Regalia PTO is derived from a plant extract of *Reynoutria sachalimensis*, which triggers turf's natural defenses systems to combat fungal and bacterial diseases. Independent research confirms that Regalia PTO provides economical control and improves turf quality. Regalia PTO can be used stand alone or as a tank mix partner with conventional fungicides.

### FOUR HOUR REI AND RAINFAST IN 1 HOUR

Regalia PTO has a short re-entry interval (REI) of only 4 hours, so golfers and workers can get back on the course quickly. Regalia PTO is rainfast in 1 hour, so your fungicide sprays can get out even in tough weather.

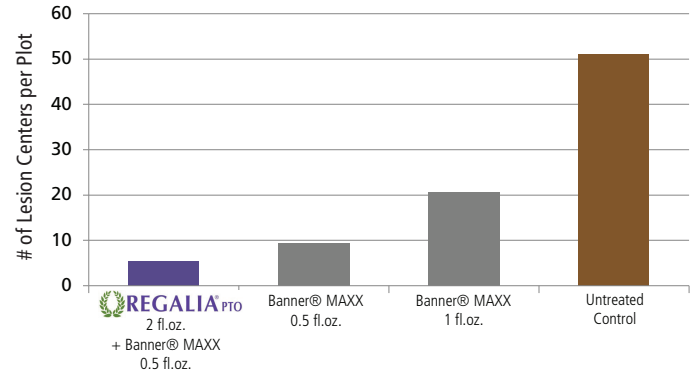
### HOW REGALIA PTO WORKS

When treated with Regalia PTO, the defense systems of turf are "switched on" to protect against attacking diseases. Research proves that turf treated with Regalia PTO produces and accumulates elevated levels of specialized proteins and other compounds known to inhibit fungal and bacterial diseases. Regalia PTO induces turf to produce phytoalexins, cell strengtheners, antioxidants, phenolics, and PR proteins, which are all known inhibitors of plant pathogens.



### Dollar Spot on Colonial Bentgrass (*Sclerotinia homoeocarpa*)

B. Clark, et al., Rutgers University, New Brunswick, NY

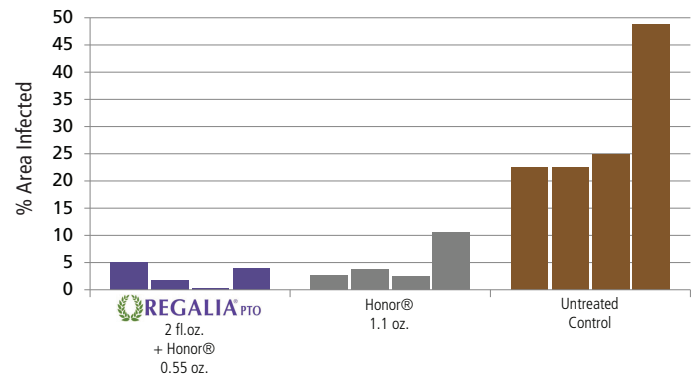


Treatments applied at 7, 14, and 21 day intervals starting on May 27.  
Treatments applied in 1.89 gal of water per 1000 sq. ft.  
Disease evaluated on Jul 14.

Studies show that Regalia PTO provides disease control and improves turf quality.

### Anthraxnose on Annual Bluegrass Green (*Colletotrichum graminicola*)

J.M. Vargas, Jr., et al., Michigan State University, East Lansing, MI



Treatments applied at 14 day intervals starting on Jun 14.  
Disease evaluated on Jul 22, Aug 2, Aug 9, and Aug 22.

### FEATURES AND BENEFITS

- Broad-spectrum fungal and bacterial disease control
- Safe: NOP and OMRI Approved
- Resistance Management: Novel Mode of Action
- Compatible: Tank Mix with Conventional Fungicides
- 4-hour REI / 0-day PHI
- Rainfast in 1 hour


**LABELED DISEASES**

- Dollar Spot
- Anthracnose
- Brown Patch
- Red Thread
- Fusarium Patch
- Yellow Patch
- Leaf Spot
- Bermudagrass Decline
- Pythium

**COMPATIBILITY AND RESISTANCE MANAGEMENT**

Regalia® PTO can be used in rotation or as a tank mix partner with most commercially available fungicides\*. Regalia PTO is shown to be compatible with strobilurins such as Heritage®, Insignia®, and Compass®, DMIs such as

Banner®, and many other types of pesticide chemistries. While strobilurin and DMI chemistries have known resistance risks, this risk is extremely low with Regalia PTO.

Common Regalia PTO Tank Mix Partners				
Brand Name	Active Ingredient	Family Group	FRAC	Resistance Risk
 <b>REGALIA</b> ® PTO	Extract of <i>Reynoutria Sachalinensis</i>	Plant Host Inducer	<b>P</b>	<b>Low</b>
3336®	Thophanate Methyl	Methyl Benzimidazol Carbamates	1	High
BANNER®MAXX	Propiconazole	Demethylation Inhibitors	3	Medium
SUBDUE®MAXX	Mefenoxam	Phenylamides	4	High
HERITAGE®	Azoxystrobin	Strobilurins (Qol)	11	High
INSIGNIA®	Pyraclostrobin	Strobilurins (Qol)	11	High
COMPASS®	Trifloxystrobin	Strobilurins (Qol)	11	High
MEDALLION®	Fludioxonil	Phenylpyrroles	12	Low/Medium
DACONIL® ULTREX	Chlorothalonil	Chloronitriles	M	Low/Medium

\*If compatibility with another product is unknown, a jar test should be conducted.

**BEST USE RECOMMENDATIONS**

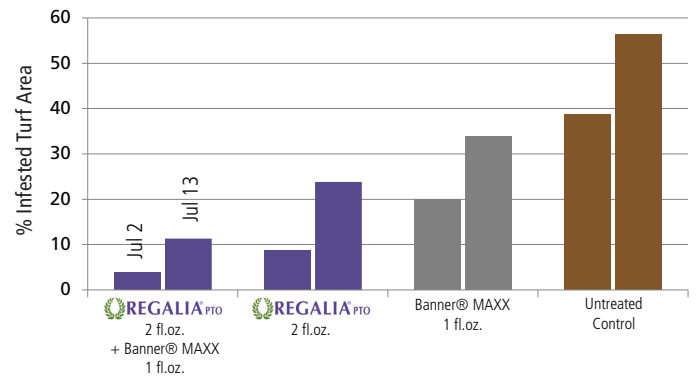
For best results, use Regalia® PTO as a preventative treatment (before disease symptoms become visible). For maximum disease control, tank mix Regalia PTO with traditional fungicides and treat at 7-14 day intervals as needed (use shorter intervals under moderate to high disease pressure). When mixed with another fungicide, apply Regalia PTO at 2 ounces per 1000 square feet. When used alone, apply Regalia PTO at 3 ounces per 1000 square feet. Apply with spray water volumes of at least 1.5 gallons of water per 1000 sq. ft.



Always read and follow label directions.

**Brown Patch on Colonial Bentgrass (*Rhizoctonia spp.*)**

B. Clark, et al., Rutgers University, New Brunswick, NY



Treatments applied at 14 day intervals starting on Jun 3. Treatments applied in 1.89 gal of water per 1000 sq. ft. Disease evaluated on Jul 2 and Jul 13.

Available from Engage Agro USA

**ENGAGE** AGRO USA

www.engageagorusa.com

MANUFACTURED BY:  
 Marrone Bio Innovations