



REGALIA[®]

Regalia[®]—active against soilborne and foliar pathogens—is an advanced biofungicide that triggers a plant’s natural defenses to protect against a variety of fungal and bacterial diseases. Regalia also boosts root vigor, delays the development of resistance, and provides an alternative to the potential for chemical residues in harvested produce. Designed for modern field and greenhouse applications, Regalia is an innovative tool to maximize plant health, quality and yield in a wide variety of specialty crops, including grapes, tomatoes, leafy greens, potatoes, citrus, cucurbits and strawberries.





CONTROLS SOILBORNE AND FOLIAR DISEASES

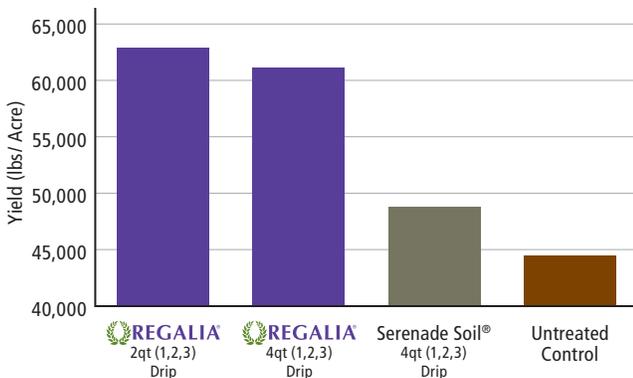
Regalia is a versatile product solution for disease control from planting to harvest. Recommended initially as a foliar application, Regalia is now also labeled for use as an effective soil treatment. This comprehensive product is a unique solution for modern field and greenhouse pest management programs. Used alone or in combination with other pesticides, Regalia delivers effective control against major fungal and bacterial pathogens without compromise.

MAXIMIZES PLANT HEALTH, YIELD AND QUALITY

Regalia is a powerful and effective biofungicide for soil and foliar applications. Using a novel extract of *Reynoutria sachalinensis*, Regalia induces a plant's natural defenses to fight major economic diseases, particularly those that hit plants early in their development. It is a proven, reliable tool for keeping plants healthy; keeping plants healthy right from the start can lead directly to improvements in yield and quality.

Fusarium on Tomatoes (*Fusarium oxysporum*)

Pacific Ag Research, Coalinga, CA



Treatments applied on 1= May 13, 2= Jun 10, 3=Jul 7.
All tomatoes harvested on Sep 2.

REGALIA SWITCHES ON A PLANT'S DEFENSES

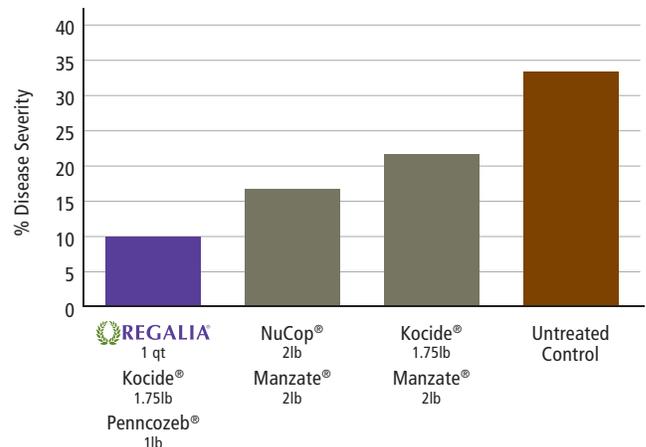
When treated with Regalia, a plant's natural defense systems are activated to protect against attacking diseases. Research shows that plants treated with Regalia produce and accumulate elevated levels of specialized proteins and other compounds known to inhibit fungal and bacterial diseases. Regalia induces a plant to produce phytoalexins, cell strengtheners, antioxidants, phenolics and PR proteins, which are all known inhibitors of plant pathogens. Regalia provides synergistic properties between a plant's natural ability to protect itself and the effectiveness of antifungal and antibacterial protection.

PROVEN PERFORMANCE

University and third-party research trials have shown that soil application of Regalia controls root diseases and improves root growth in many specialty crops, demonstrating the effectiveness of this innovative product.

Bacterial Spot on Tomatoes (*Xanthomonas perforans*)

P. Roberts, R. Sytsma, University of Florida, Immokalee, FL



Treatments applied 10 times on the following dates: Oct 4, Oct 11, Oct 18, Oct 25, Nov 1, Nov 8, Nov 15, Nov 23, Nov 30, Dec 6.
Disease evaluated on Dec 8 (final observation date).



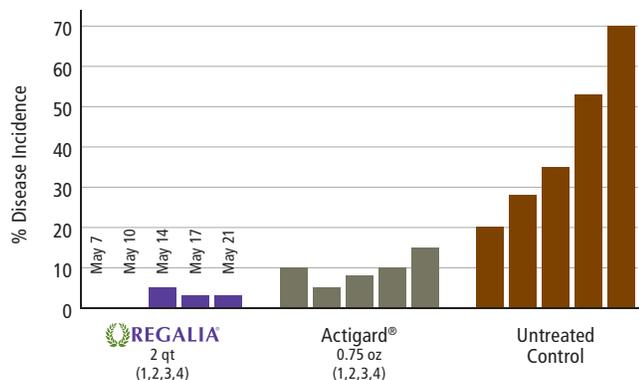


A PARTNER IN EFFECTIVE RESISTANCE MANAGEMENT

Regalia's unique and complex mode of action, referred to as Induced Systemic Resistance (ISR), makes it very difficult for diseases to develop resistance. In 2012, the Fungicide Resistance Action Committee (FRAC) designated Regalia's active ingredient, *Reynoutria sachalinensis*, as P5, a code within the "host plant defense induction" grouping. When used as a tank mix partner or in rotation with other pesticides that are susceptible to resistance, Regalia helps extend the life of those pesticides as useful pest control agents.

Downy Mildew on Romaine Lettuce (*Bremia lactuca*, *Peronospora* spp.)

Holden Research and Consulting, Ventura, CA



Treatments applied on 1= Apr 23, 2= May 1, 3= May 8, 4= May 15.
Disease evaluated on May 7, May 10, May 14, May 17, May 21.

MAXIMUM BACTERIAL AND FUNGAL DISEASE CONTROL

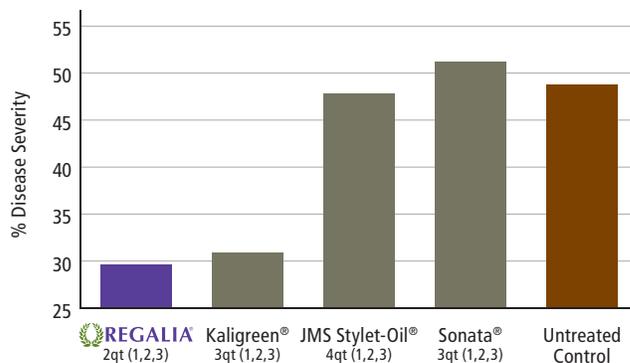
Regalia provides proven control of a broad spectrum of important fungal and bacterial diseases, including powdery mildew, downy mildew, botrytis gray mold, early blight, late blight, citrus canker, brown rot, bacterial leaf spot, target spot, gummy stem blight, walnut blight and others.

USE IN CONVENTIONAL, SUSTAINABLE AND ORGANIC PRODUCTION SYSTEMS

Regalia is an excellent choice for control in conventional, sustainable and organic production systems. Organic growers get the same reliable effectiveness as conventional growers. Regalia is recognized as fully compliant for use on organic crops by the National Organic Program (NOP) and is listed by the Organic Materials Review Institute (OMRI). In addition, Regalia offers a tolerance exemption for growers concerned about residue levels on harvested crops.

Powdery Mildew on Chardonnay Grapes (*Erysiphe necator*)

Pacific Ag Research, Arroyo Grande, CA



Treatments applied on 1= May 14, 2= May 28, 3= Jun 11.
Disease evaluated on Jun 16.



HIGHLIGHTS

- One powerful product controls both soilborne and foliar diseases
- Active against both bacterial and fungal diseases
- Novel mode of action for resistance management (FRAC P5)
- Tolerance exempt
- Reentry interval (REI) of 4 hours
- Preharvest interval (PHI) of zero days
- Rainfast in 1 hour
- Approved for greenhouse use and aerial applications
- For use in conventional, sustainable and organic production

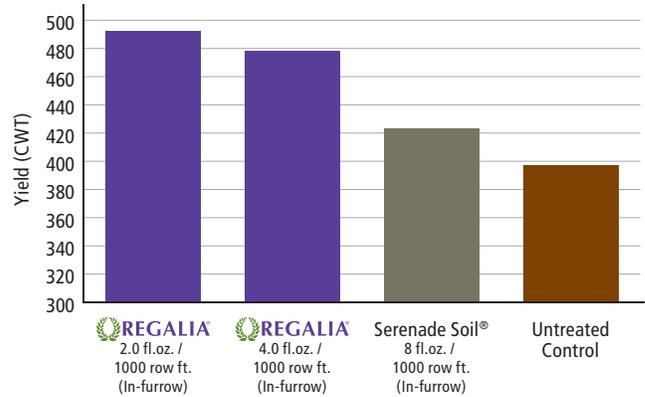


CAN BE USED IN ORGANIC PRODUCTION

Always read and follow label directions.

Rhizoctonia on Potato (*Rhizoctonia* spp.)

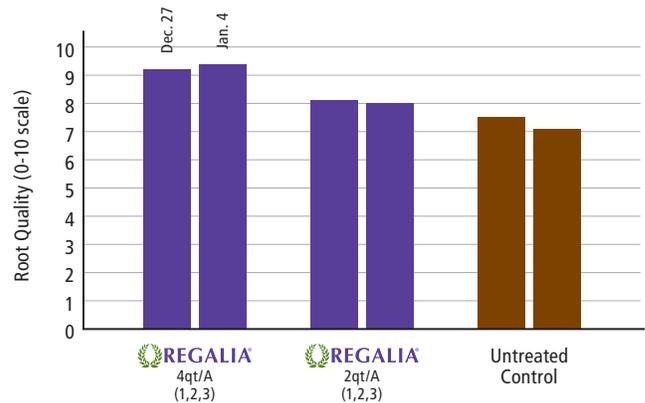
M. Hubbard, Kootenai Valley Farm & Research, Bonners Ferry, ID



Treatments applied as in-furrow spray on Jun 4.
Yield evaluated on Oct 13.

Strawberry Root Quality

Florida Ag Research, Dover, FL



Treatments applied as follows:
1= Soil drench at point of transplant on Nov. 26.
2= Drip application on Dec 10.
3= Drip application on Dec 24.

FOR ADDITIONAL INFORMATION,
CONTACT YOUR LOCAL RETAILER OR
CONTACT MARRONE BIO INNOVATIONS:

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