

NEW

The best offense is a good defense.
So switch on your crops' natural defenses
to control disease with Regalia®.



 **Regalia**®

What is Regalia®?

Regalia® triggers a plant's natural defense systems to protect against a variety of fungal and bacterial pathogens. Used in tank mixes, program rotations and stand-alone, Regalia provides proven control 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.

Regalia has been successfully evaluated by many university and independent researchers on a vast range of crops and diseases. Results prove that Regalia is as effective as many leading conventional fungicides. It is also an excellent addition to your current tank mix or rotational program for resistance management.

Features of Regalia:

- Activity Against Both Bacterial and Fungal Diseases
- Tolerance Exempt
- Re-Entry Interval (REI) = 4 hours
- Pre-Harvest Interval (PHI) = 0 days
- Rainfast in 1 hour
- NOP Compliant and OMRI Listed
- New Tool for Resistance Management

Can Be Used in Both Conventional and Organic Production

Regalia is recognized as fully compliant for use on organic crops by the National Organic Program (NOP) and is listed by OMRI. Organic growers can now access the same powerful Regalia used by conventional growers.



How Regalia Works

When treated with Regalia, the defense systems of crops are 'switched on' 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.



Rainfast in One Hour

Regalia is rainfast in only 1 hour, so growers can get important sprays out and protect crops even in tough weather, or when moisture conditions are conducive to disease development.

Tolerance Exempt

Regalia is exempt from tolerance requirements in or on all food commodities in accordance with the United States EPA federal regulation 40CFR180.1259.

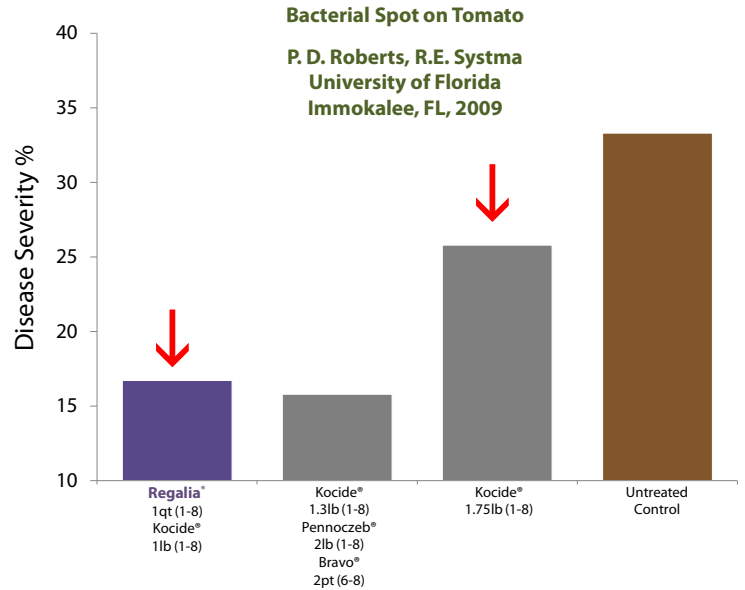
Four Hour REI and Zero Day PHI

Regalia carries a re-entry interval (REI) of only 4 hours, so workers can get back in the field quickly. With a 0 day pre-harvest interval (PHI), growers can now protect crops right up to harvest.

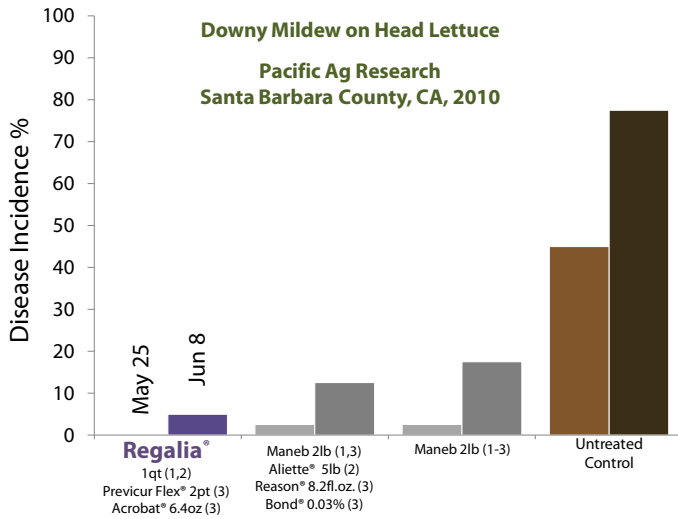
Regalia is Proven Against Both Bacterial and Fungal Diseases.

Regalia® is powerful at controlling bacterial diseases, such as bacterial spot on tomatoes

Bacterial spot is one of the most devastating diseases of fresh market tomatoes and peppers, and there are limited tools to control this disease. Independent studies have confirmed that Regalia provides powerful control of bacterial spot. Regalia can also be tank mixed or used in rotation with most commercially available fungicides to improve performance and reduce resistance.



- Treatments applied 1= Sept 28, 2= Oct 5, 3= Oct 12, 4= Oct 19, 5= Oct 26, 6= Nov 2, 7= Nov 9, 8= Nov 16.



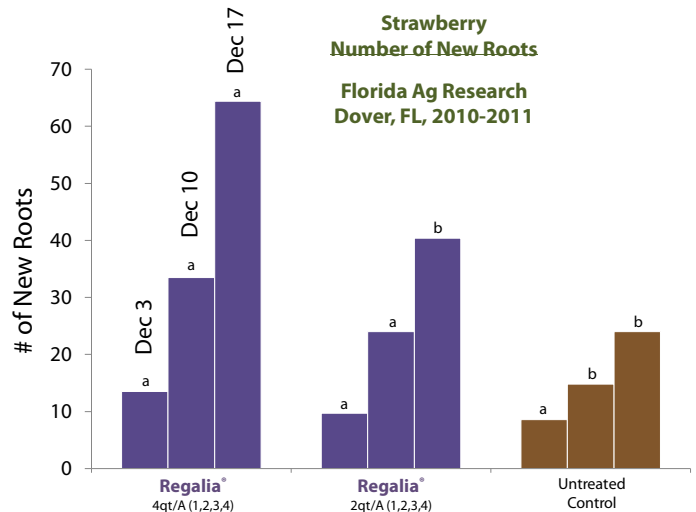
- Treatments applied 3 times on 1=May 5, 2=May 20, 3=Jun 3.

Regalia® shows significant control of fungal diseases, such as downy mildew on lettuce.

Growers of leafy greens now have a new tool to combat downy mildew and powdery mildew. Recent university and independent research has proven that adding Regalia to tank mix and rotational programs, significantly improves control of downy mildew, even when applied at low rates.

Regalia® improves plant health and root growth when applied through drip irrigation or as a pre-plant dip.

Nothing is more important than starting the season with clean, strong transplants. Regalia is proven to help strawberry plants overcome the shock of transplanting, while also protecting the plants from soil-borne and foliar diseases. Independent field trials prove that Regalia-treated transplants are healthier, with larger and better quality root systems.



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
4= Drip application on Jan 7




An Excellent New Tool for Resistance Management

There is known resistance to many commonly used fungicides including DMIs and strobilurins, but there is very low risk for resistance with Regalia (see chart below). Incorporate Regalia into your existing fungicide program to provide

a novel mode of action, and to manage resistance. Regalia can be tank mixed or used in rotation with most commercially available fungicides providing the ultimate in flexibility.

Common Regalia Tank Mix Partners:

Brand Name	Active Ingredient	Family Group	FRAC	Resistance
Regalia [®]	Extract of <i>Reynoutria sachalinensis</i>	Plant Host Inducers	P	Low 
Elite [®]	Tebuconazole	Demethylation Inhibitor	3	Medium
Procure [®]	Triflumizole	Demethylation Inhibitor	3	Medium
Rally [®]	Myclobutanil	Demethylation Inhibitor	3	Medium
Pristine [®]	Boscalid + Pyraclostrobin	Carboxamide + Quinone outside Inhibitor	7 11	Medium High
Flint [®]	Trifloxystrobin	Quinone outside Inhibitor	11	High
Quadris [®]	Azoxystrobin	Quinone outside Inhibitor	11	High
Quintec [®]	Quinoxifen	Quinolines	13	Medium
Kocide [®]	Copper Hydroxide	Multi-site Contact Inorganics	M1	Low
Microthiol [®] Dispers [®]	Sulfur	Multi-site Contact Inorganics	M2	Low

Regalia General Use Recommendations

- Prevention** Regalia is recommended as a preventative treatment.
- Use in Rotation or Tank Mixing** As a general recommendation, Regalia can be applied at 1-4 quarts per acre when used in rotation or tank mixed with another fungicide.
- Greenhouse Use** Regalia is labeled for greenhouse use on many edible crops and ornamentals.
- Aerial Application** Regalia can be applied by aerial application to many crops, including leafy greens and citrus.



Marrone Bio Innovations is a member of the Ag Container Recycling Council. For information on how to arrange pick-up of empty pesticide containers visit <http://www.acrecycle.org>



For more information about the disease control power of Regalia, contact your local retailer or call Toll Free- 877-664-4476

www.MarroneBio.com/Regalia

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