



Disease Control for Powdery Mildew & Bacterial Diseases



Regalia® offers a new mode of action that controls powdery mildew, late blight, and bacterial diseases on tomatoes. University research proves that Regalia controls powdery mildew as well as leading strobilurin and DMI fungicides. These chemistries have a known resistance risk, but the risk is extremely low with Regalia (see Compatibility Chart). Use Regalia with all major types of fungicides including strobilurins, DMIs, and sulfur for superior control of fungal and bacterial diseases.

Control Powdery Mildew

Regalia provides effective and economical control of powdery mildew. University research in California proves that Regalia provides excellent control of powdery mildew when alternated with low rates of pyraclostrobin or myclobutanil. In fact, field trials near Fresno prove that Regalia plus low rates of pyraclostrobin or myclobutanil are as effective as high rates of these fungicides combined.

How Regalia Works

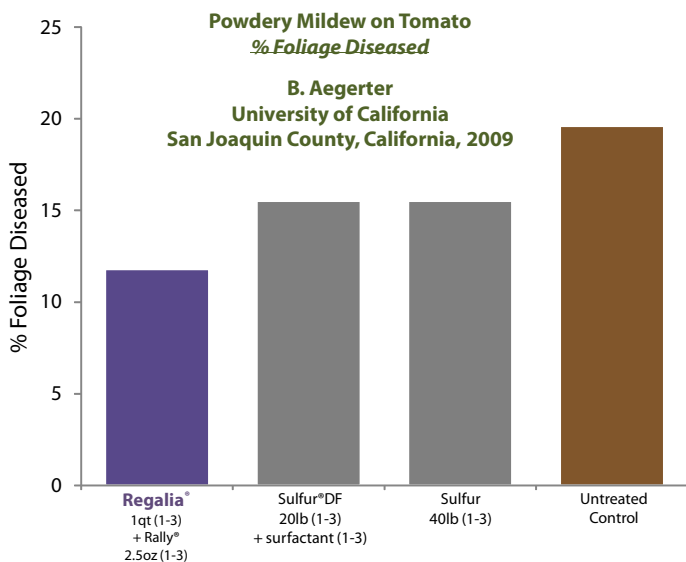
When treated with Regalia, the defense systems of crops are 'switched on' to protect against attacking diseases. Research proves that plants treated with Regalia produce and accumulate elevated levels of specialized proteins and other compounds known to inhibit fungal and bacterial diseases. Regalia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

Control Bacterial Diseases

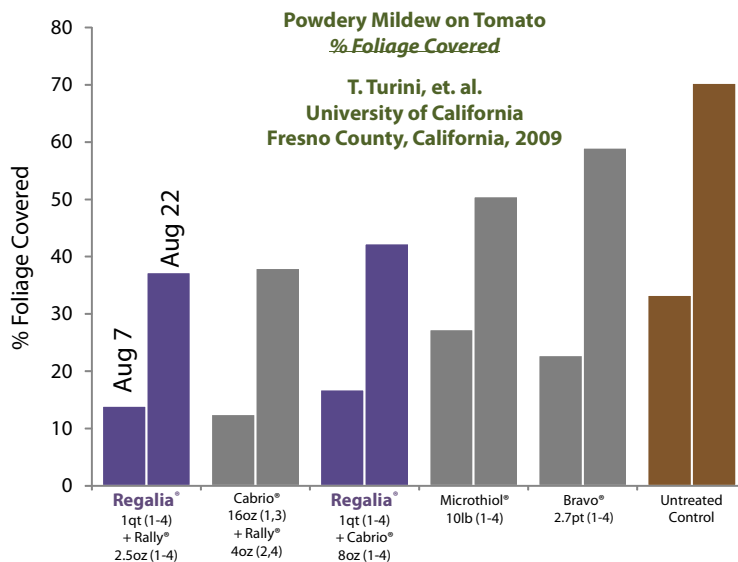
During cool, rainy springs, bacterial diseases can be a problem on tomatoes in California. Copper is commonly used, but there is known resistance to copper fungicides, and copper fungicides only provide partial control when used alone. New university research proves that adding Regalia improves control of bacterial diseases with copper on tomatoes.

Diseases Controlled by Regalia:
Powdery Mildew • Late Blight
Bacterial Diseases

Regalia provides excellent control of Powdery Mildew when combined with low rates of myclobutanil or pyraclostrobin.



- Treatments applied 3 times at 10-day intervals.
- Disease evaluated on Sep 24 and Oct 6.




- Treatments applied on 1= Jul 22, 2= Jul 31, 3= Aug 12, 4= Aug 21.

Compatibility Chart - Common Regalia Tank Mix Partners

Regalia is shown to be compatible with sulfur, copper, DMI's such as Rally®, strobilurins such as Cabrio®, Flint® and Quadris® and many other classes

of pesticide chemistry. If compatibility with another product is unknown, a jar test should be conducted.

Compatibility Chart

| Brand Name | Active Ingredient | Family Group | FRAC | Resistance |
|-------------|--|--------------------------|------|---|
| Regalia® | Extract of <i>Reynoutria Sachalinensis</i> | Plant Host Inducer | P | Low  |
| Rally® | Myclobutanil | Demethylation Inhibitors | 3 | Medium |
| Ridomil® | Mefenoxam | Phenylamides | 4 | High |
| Cabrio® | Pyraclostrobin | Strobilurins (QoI) | 11 | High |
| Flint® | Trifloxystrobin | Strobilurins (QoI) | 11 | High |
| Quadris® | Azoxystrobin | Strobilurins (QoI) | 11 | High |
| Kocide®3000 | Copper Hydroxide | Inorganic | M1 | Low |
| Sulfur | Sulfur | Inorganic | M2 | Low |

Regalia Best Use Recommendations

For best results, use Regalia as a preventative treatment. For maximum disease control, begin applications prior to or at the first sign of disease pressure. Apply at 7- 10 day intervals to protect new growth. Additional treatments are recommended depending on weather and disease pressure.

Apply at a rate of 1-2 quarts per 50 gallons of water in a tank mix or rotational program with other registered fungicides. For control of powdery mildew, rotate or tank mix Regalia with a DMI or strobilurin fungicide.

- Re-entry interval (REI) of 4 hours.
- Rainfast in 1 hour.
- Pre-harvest interval (PHI) of 0 days.

Can Be Used in Conventional or Organic Production

For organic production, combinations of Regalia at 1-2 quarts per 50 gallons of water plus labeled rates of NOP compliant or OMRI listed copper and sulfur fungicides will provide broad spectrum control of most foliar diseases on tomatoes.



CAN BE USED IN ORGANIC PRODUCTION



To control bacterial and fungal plant diseases with powerful Regalia contact your local retailer, or call:

Jesse Rosales, Western Territory Manager, 530-304-2030
 Mark Allen, Northern CA and Pac NW, 530-304-9091
 Ryan Hesse, Central Valley CA, 559-799-1659
 David Warman, Director of Sales, 336-202-3433

www.marronebio.com/regalia

Always read and follow label directions. Regalia is a registered trademark of Marrone Bio Innovations, Inc. Manzate, Pro-Stick, Tanos, Curzate and Kocide are registered trademarks of DuPont Crop Protection. Quadris, Actigard, Revus, and Bravo Weather Stik are registered trademarks of Syngenta Crop Protection, Inc. Serenade is a registered trademark of Agrquest. Cuprofix, Dispers, and Penncozeb are registered trademarks of Cerexagri, Inc. Maneb is a registered trademark of United Phosphorus, Inc. Previcur and Reason are registered trademarks of Bayer CropScience. Gavel is a registered trademark of Gowan Company. Silwet is a registered trademark of Helena Chemica Co. Presidio is a registered trademark of Valent USA Corp. Ag. Products. Cabrio is a registered trademark of BASF Ag Products. Ranman is a registered trademark of FMC Crop. Ag. Products. © April 2010 Marrone Bio Innovations, Inc.