

New Tool Against Brown Rot Blossom Blight

During almond bloom in California, nearly all flower parts are susceptible to infection from *Monilinia laxa*. Regalia® is a powerful, new tool to control Brown Rot and other diseases of almonds.

The active ingredient in Regalia, an extract of *Reynoutria sachalinensis*, has been well tested by many universities. Trials performed in 2009 prove that Regalia is the most effective natural product for controlling Brown Rot in almonds with 79% less Brown Rot than untreated trees. Regalia was even effective at controlling Brown Rot on Butte cultivar which is known to be highly susceptible to the disease.

Additionally, Regalia is OMRI listed and NOP compliant for use in organic production. Organic growers now have access to 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 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.

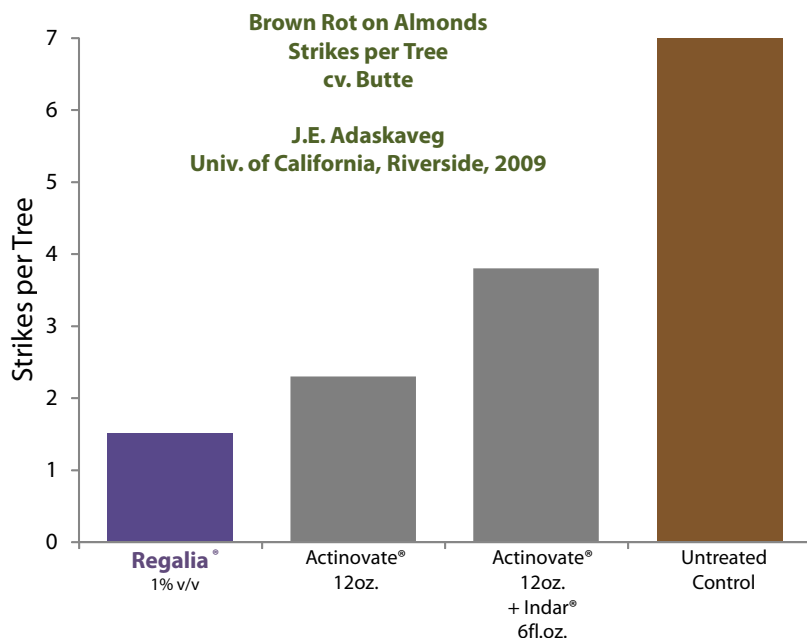
Resistance Management

In the past, growers relied solely on DMI, strobilurin, and aniloprimidine fungicides to control brown rot, but there is known disease resistance with these chemistries (see Compatibility Chart). Regalia has a unique mode of action that aids in resistance management in IPM programs. A field trial conducted at UC Davis proved that Regalia alternated with Pristine® provided the best control of Brown Rot in almonds.

Rainfast in One Hour

Brown Rot Blossom Blight can be most severe when there is rainfall and warm temperatures during bloom. Regalia is rainfast in only one hour, so growers can get important sprays out and protect crops even in tough weather.

Almond trees treated with **Regalia** had 79% less Brown Rot.



- Disease evaluated on 4-15-09.
- Treatments applied at 100 gal/acre.

Always read and follow label directions. Regalia is a registered trademark of Marrone Bio Innovations, Inc. Pristine is a registered trademark of BASF Ag Products. Vanguard, Orbit, and Abound are registered trademarks of Syngenta. Scala, Adament, and Elite are registered trademarks of Bayer CropScience. Topsin is a registered trademark of United Phosphorus, Inc. Indar is a registered trademark of Dow AgroSciences, LLC. Elevate is a registered trademark of Arysta LifeScience, LLC. Actinovate is a registered trademark of Natural Industries, Inc.
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Compatibility Chart - Common Regalia Tank Mix Partners

Regalia is compatible with DMIs such as Indar® and Elite®, strobilurins such as Pristine® and Abound®, Anilopyrimidines such as Vanguard® and Scala®, and

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

Brand Name	Active Ingredient	Family Group	FRAC	Resistance Risk
Regalia®	Extract of <i>Reynoutria sachalinensis</i>	Plant Host Inducers	P	Low
Topsin® M	Thiophanate-Methyl	Methyl Benzimidazole	1	High
Adament®	Tebuconazole + Trifloxystrobin	Demethylation Inhibitor + Quinone outside Inhibitor	3 11	High
Indar®	Fenbuconazole	Demethylation Inhibitor	3	High
Elite®	Tebuconazole	Demethylation Inhibitor	3	High
Orbit®	Propiconazole	Demethylation Inhibitor	3	High
Pristine®	Boscalid + Pyraclostrobin	Carboxamide + Quinone outside Inhibitor	7 11	Medium
Scala®	Pyrimethanil	Anilinoprimidine	9	High
Vanguard®	Cyprodinil	Anilinoprimidine	9	High
Abound®	Azoxystrobin	Quinone outside Inhibitor	11	High
Elevate®	Fenhexamid	Hydroxyanilide	17	High

Best Use Recommendations

For best results, use Regalia as a preventative treatment. For maximum Brown Rot control, apply at pink bud stage and full bloom. If disease pressure is high, an additional application after petal fall is recommended.

Apply 1-4 quarts of Regalia per acre in 100 gallons of water when applied as part of a tank-mix or rotational program. Apply 2-4 quarts of Regalia per acre in 100 gallons when applied alone.



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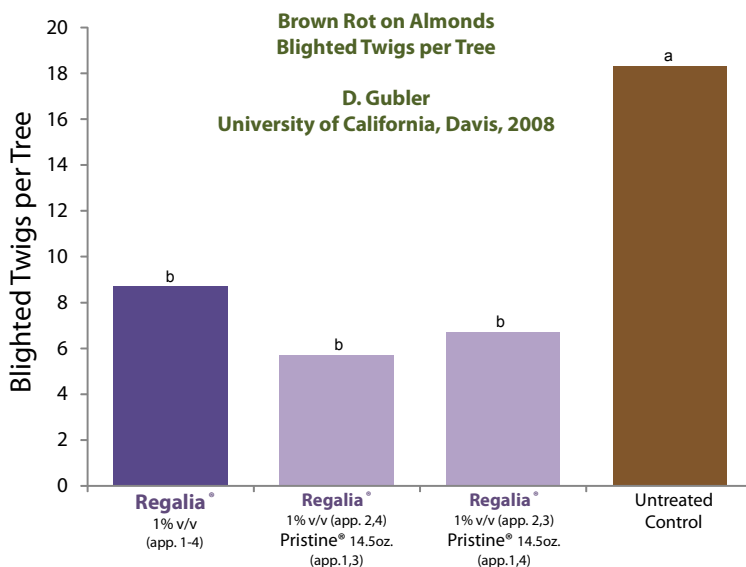
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- Treatments applied on 1= Mar 4, 2= Mar 9, 3= Mar 21, 4= Mar 31

- Treatments applied at 100 gal/acre.

Regalia provides excellent control of Brown Rot when used in a tank-mix, rotational program, or stand alone.