



Disease Control on Blueberries

Broad Spectrum Disease Control

Regalia® offers growers an effective tool against Mummy Berry, Alternaria, Anthracnose, and Botrytis. Many products control just one disease, but with Regalia, growers get a broad spectrum of disease control in just one product (see 'Compatibility and Resistance' on back).

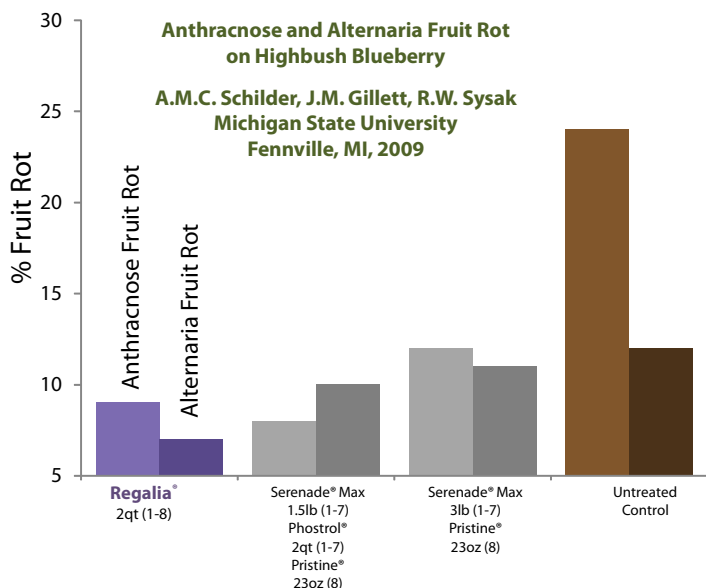
Regalia offers growers an effective and unique mode of action that aids in resistance management. When treated with Regalia, the blueberry plant's defense system is switched on to protect against attacking diseases.

Use Regalia on the following diseases:

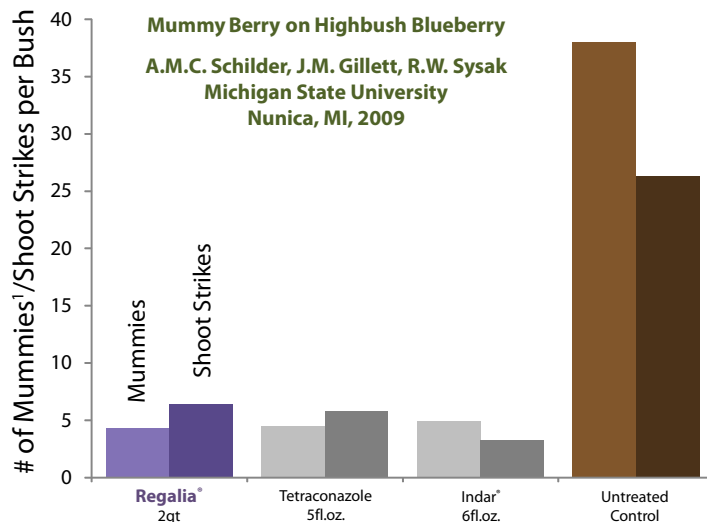
- Mummy Berry • Anthracnose Fruit Rot
- Botrytis Blight • Alternaria Fruit Rot

Anthracnose and Alternaria Fruit Rots

Regalia provides a broad spectrum of activity against fruit rots including Anthracnose, Alternaria, and Botrytis. University field tests in Michigan prove that Regalia controls fruit rots, and also increases the amount of marketable fruit at pack out.



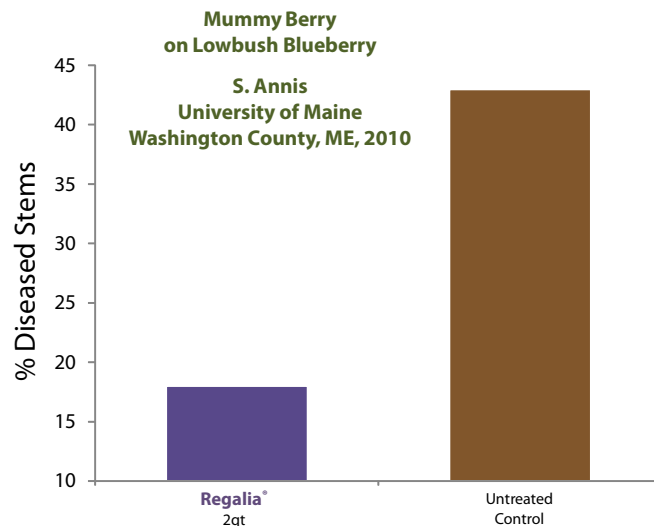
- Treatments applied on: 1= April 23, 2= May 2, 3= May 8, 4= May 15, 5= May 22, 6= May 28, 7= June 22, 8= July 6.



- Treatments applied on Apr 24 (green tip), Apr 29, May 5, May 12, May 20, May 29 (petal fall).
- 'Mummies evaluated before harvest on Jul 21.

Mummy Berry

Research conducted in Michigan and Maine shows that Regalia is effective against Mummy Berry. Trials performed on Mummy Berry in highbush blueberries in Michigan prove that Regalia is as effective as triazole fungicides such as tetraconazole and fenbuconazole (i.e. Indar®). Field trials performed in Washington County, Maine, show that Regalia is also effective at controlling Mummy Berry in lowbush blueberries.




- Treatments applied on Apr 13, Apr 21, Apr 26, May 3.
- Disease evaluated on May 26.

Compatibility and Resistance

There is a known resistance risk to many commonly used fungicides but there is a very low risk of resistance with Regalia (see chart below). Regalia is an ideal component of resistance management programs, and is

shown to be compatible with many other types of pesticide chemistry including strobilurin fungicides such as Pristine® and Abound®, and triazole fungicides such as Indar®. If compatibility with another product is unknown, a jar test should be conducted.

| Product Name | Active Ingredient | Alternaria | Anthrachnose | Mummy Berry | Botrytis | Resistance Risk |
|--------------|--|------------|--------------|-------------|----------|---|
| Regalia® | Extract of <i>Reynoutria sachalinensis</i> | ✓ | ✓ | ✓ | ✓ | Low  |
| Pristine® | Boscalid + Pyraclostrobin | ✓ | ✓ | ✓ | ✓ | High |
| Switch® | Cyprodinil + Fludioxonil | ✓ | ✓ | ✓ | ✓ | Medium |
| Ziram® | Ziram | ✓ | ✓ | ✓ | ✓ | Low |
| Abound® | Azoxystrobin | ✓ | ✓ | ✓ | | High |
| Indar® | Febuconazole | ✓ | ✓ | ✓ | | Medium |
| Captevate® | Captan + Fenhexamid | | ✓ | ✓ | ✓ | Low to Med |
| Captan® | Captan | | | ✓ | ✓ | Low |
| Elevate® | Fenhexamid | | | | ✓ | Low to Med |
| Rovral® | Iprodione | | | | ✓ | Med to High |

Regalia Best Use Recommendations

Mummy Berry – Initiate application at bud break stage of development. Apply 1-2 qts Regalia preventatively in 50 to 100 gallons of water per acre and repeat on a 7- to 10-day interval or as needed. For best performance, tank mix Regalia with other registered fungicides for Mummy Berry control.

Botrytis Blight – Apply 1-2 qts Regalia preventatively in 50-100 gallons of water per acre when the first disease symptoms are visible and reapply every 7- to 14-days.

Anthrachnose Fruit Rot and Alternaria Fruit Rot – Initiate application at green tip. Apply 1-2 qts Regalia preventatively in 50 to 100 gallons of water per acre and repeat on a 7- to 10-day interval until 10% blue fruit.

- Re-entry interval (REI) of 4 hours.
- Rainfast in 1 hour.
- Pre-harvest interval (PHI) of 0 days.
- Fully compliant for use on organic crops.



To control blueberry diseases with powerful Regalia contact your local retailer, or call:

Jesse Rosales, Western Territory Manager, 530-304-2030

Jay Osborne, Eastern Territory Manager, 239-207-7168

Mark Allen, Northern CA and Pac NW, 530-304-9091

Ryan Hesse, Central Valley CA, 559-799-1659

Patrick Clark, NE and Midwest Sales Rep., 215-490-3981

David Warman, Director of Sales, 336-202-3433

www.MarroneBio.com

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