

For suppression of *fire blight* in apples



Regalia RX Biofungicide

Regalia RX is a locally systemic fungicide/ bactericide for suppression of fire blight.

Benefits

- Compatible with all other fire blight management strategies.
- Regalia RX is a natural plant extract that is MRL exempt.
- 0 day PHI, 4 hour REI and rainfast in 1 hour.
- OMRI certified and highly tank mixable.

Growers that integrate Regalia RX for shoot blight will have the added benefits to also have suppression of powdery mildew and additional summer diseases.

Mode of action

Regalia RX is in FRAC group P5 (Plant Defense Activator); when applied, it triggers the plant to activate its own resistance within 24-48 hours. Plant defense activation triggers several defensive pathways including induced systemic resistance (ISR) and systemic acquired resistance (SAR) pathways that:

- Inhibit pathogen growth by the creation of antimicrobial compounds and proteins within the plant.
- Strengthen cell walls by accumulating more lignin which helps protect against penetration from fungal hyphae.
- Additionally, applications of Regalia results in increased chlorophyll production plant treated foliage.

Untreated



Regalia RX





A foliar fungicide for suppression of fire blight in apples



Best management practices Application rates and timings

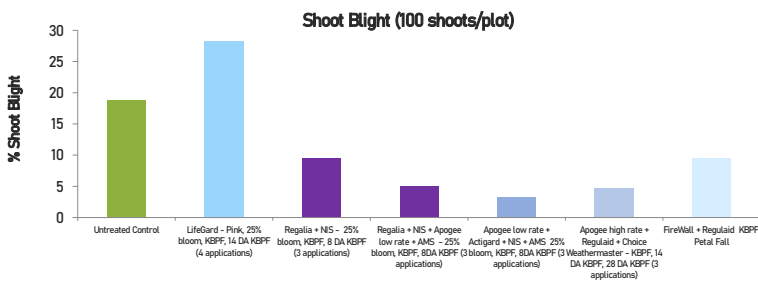
To manage shoot blight

- Apply Regalia RX preventatively at petal fall and through first two cover sprays as part of a full-season fire blight management program.
- Use a rate of 5-10 L in 500-1000 L of water per hectare
- For optimal shoot blight control, combine Regalia RX with a low label rate of Apogee.
- If shoot blight has been observed, post-infection applications can limit or slow spread down to the leader.

Other best management practices

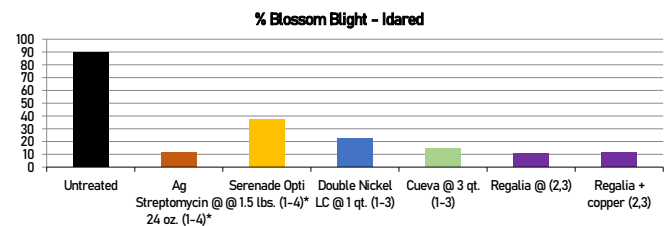
- Regalia has no direct fungicidal or bactericidal activity, therefore needs to be applied preventatively.
- Regalia RX is tank mix compatible with other conventional and organic products for fireblight management such as copper, peroxyacetic acid, blossom protect
- If applied at pink, can help prevent blossom blight when used in combination with other management tools such as antibiotic sprays (Kasumin and Streptomycin)
- No adjuvant is required.

Regalia 5% in a Shoot Blight Program



18-032BRM - ML_M106_20_Fire-blight_Apples_Michigan State University (Sundin)

Regalia for control of Fire Blight (Bloom Programs), University Trial - New York, 2015.



Treatments included Regalaid® adjuvant at 3 pints per acre. Application dates 1=20% bloom (May 9), 2=50% bloom (May 10), 3=80% bloom (May 10), 4=full bloom/petal fall (May 20). Blossoms inoculated on May 11 and rated on June 3. Partial list of 25 treatment trial.



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