

FUNGOUT®

Fungicide & Bactericide

*Management tool for
fire blight in apples*



0 Day PHI

4 Hours REI



TECHNICAL SPECIFICATIONS

- Active Ingredients: Citric acid
- Packaging: Case (2 x 2.5 gal) or tote (275 gal)
- Formulation Type: Liquid concentrate
- Chemical Group: N/A Biopesticide

RECOMMENDATIONS FOR OPTIMAL RESULTS

- Apply before a wetting event susceptible to cause an infection and allow time for the product to dry.
- Addition of a non-ionic surfactant (spreader) may improve performance when using high water volumes. Always test for compatibility first.
- Always read and follow label instructions

MODE OF ACTION

FungOUT has a dual mode of action and protection activity at early infection stages. The product forms a protective barrier on the plant surface, inhibiting pathogen development. It also has antifungal activity on various structures (conidia germination, germ tube formation and elongation, appressorium and haustorium formation and hyphae branching) and bactericidal activity.

Manufactured by:

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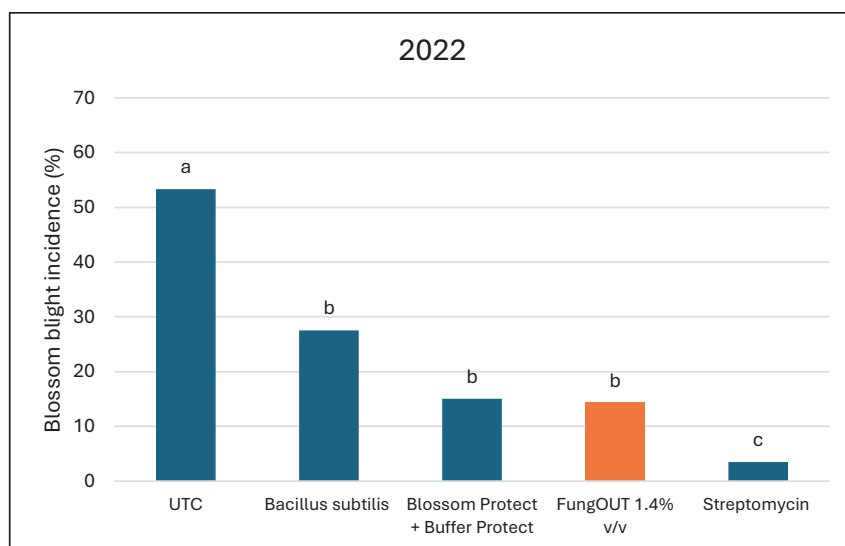
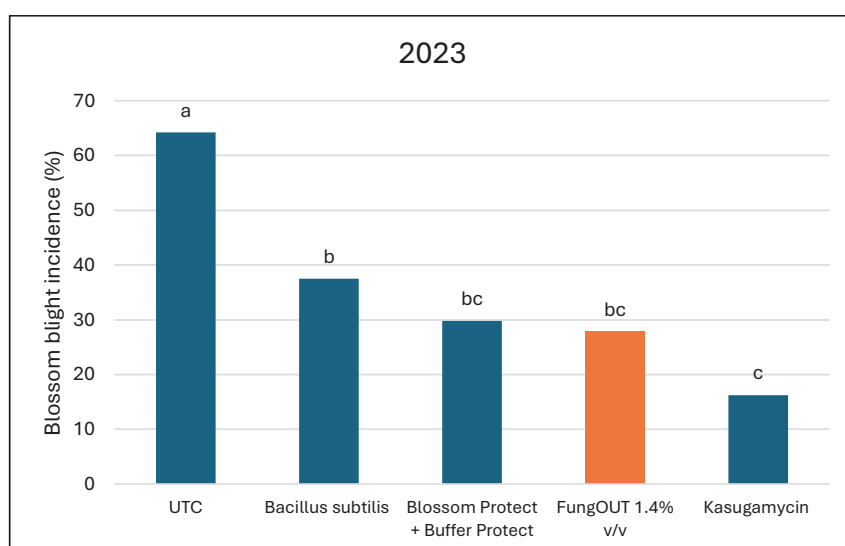
USE PATTERN

CROP	DISEASE	RATE	FOLIAR SPRAY VOLUME	APPLICATION TIMING
Apple	Fire blight (<i>Erwinia amylovora</i>)	1.4% v/v with a non-ionic surfactant	Use the minimum spray volume to obtain full coverage	Apply before a wetting events at risk to cause an infection and allow time for product to dry. Re-apply every 2-3 days if infection risk persists.

RESULTS

Fungicide evaluation trials conducted by Outwater & Sundin (Michigan State University) in East Lansing, Michigan (2022-2023)

- Randomized complete block design, 4 repetitions, single-tree plots ('Buckeye Gala' apple trees on M106 rootstock)
- All treatments were applied at the following timings: 80 % bloom, full bloom, full bloom + 3-4 days (products used at rates prescribed by respective labels).
- *Erwinia amylovora* was inoculated shortly after the first comparative treatment.
- Blossom blight incidence was determined by rating 100-150 clusters per tree.



Means followed by the same letter are not significantly different (Tukey, $p=0.05$).