

FUNGOUT®

Fungicide & Bactericide

*Biofungicide for downy mildew
and phomopsis cane and leaf
spot in grapes*



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

- Begin applications after bud break if conditions are conducive to disease development.
- Repeat applications at a 7-10-day interval to protect developing tissues before infection periods.
- Ensure excellent plant coverage and spray quality.
- 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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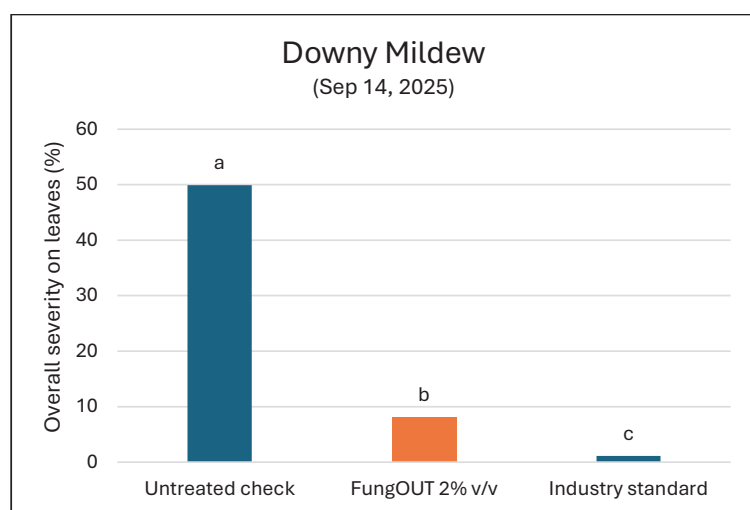
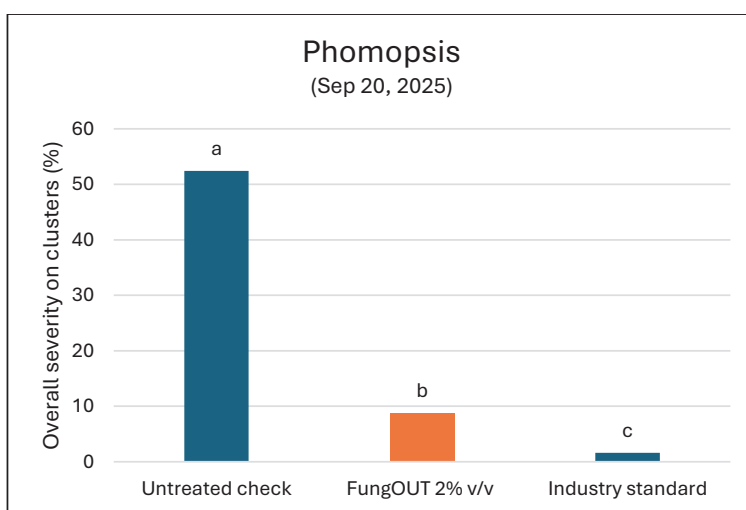
USE PATTERN

CROP	DISEASE	RATE	FOLIAR SPRAY VOLUME	APPLICATION TIMING
Grapes	Downy mildew (<i>Plasmopara viticola</i>), Phomopsis cane and leaf spot (<i>Phomopsis viticola</i>)	2.0% v/v	Use the minimum spray volume to obtain full coverage	Apply when conditions are conducive to disease development starting at bud break (7-10 day interval)

RESULTS

Fungicide evaluation trial conducted by Dr. Timothy Miles' research team (University of Michigan) at the Trevor Nichols Research Center in Fennville, MI (2025)

- Randomized complete block design, 4 repetitions (7-vine plots, mature Niagara block)
- 12 sprays at a 6–14-day interval starting at 5–8-inch shoot (May 20 to August 23, spray volume 50 gpa)
- Industry standard (rotation of Manzate Max 3 qt, Abound 15.5 oz, Switch 14 oz + Revus Top 7 oz, Pristine 23 oz/acre) vs. FungOUT (2.0 % v/v). The same spray interval was used for industry standard and FungOUT.
- Assessment of 25 leaves (downy mildew) or clusters (Phomopsis) on the central vine in each plot



Means followed by the same letter are not significantly different according to Fisher's Protected LSD ($p=0.05$). Overall severity = (incidence x severity)/100