AEF GLOBAL Biopesticides

FUNGOUT

Sustainable program for powdery mildew in wine grapes



Minimum Risk Pesticide

OMRI Listed® for organic use

Friendly to beneficials and pollinators

ACTIVE INGREDIENT

Citric acid

Formulation: liquid concentrate
Chemical group: N/A — biopesticide
Packaging: case (2 × 2.5 gal) or tote (275 gal)

MODE OF ACTION

Dual action: a protective barrier plus antifungal and bactericidal activity.

Forms a protective barrier on the plant surface, inhibiting conidia germination, germ tube formation and elongation, appressorium and haustorium formation and hyphae branching. Also exhibits bactericidal activity.



Application Guidelines

01 Use Pattern

RATE
2% v/v
Foliar spray

TIMING
Preventive
When conditions are conducive to disease development

INTERVAL
7–10 days
Shorter interval under high disease pressure

PHI / REI
0 day / 4 h
Pre-harvest / re-entry

Targets: powdery mildew *(Erysiphe necator)*
Spray volume: use the minimum spray volume to obtain full coverage

- Use a very fine spray; cover both leaf surfaces.
- Use in combination or rotation with different modes of action to manage resistance or as part of an organic program.
- Maximum 4 applications per season.
- Always read and follow label instructions.

02 Field Evidence

Cabernet Sauvignon trial (2025): powdery mildew on clusters

Trial conducted by Rohlfs and Adkins Research, Yakima County, WA

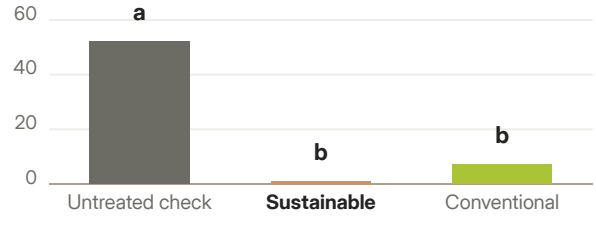
Table 1 · Spray programs

Four sprays during the critical period

Date (crop stage)	Conventional	Sustainable
May 19 (19 in)	Cevya 5 oz + sulfur 5 lb	Cevya 5 oz + FungOUT 2%
Jun 1 (early bloom)	Quintec 4 oz + NIS	FungOUT 2%
Jun 9 (full bloom)	–	FungOUT 2%
Jun 16 (post-bloom)	Prolivo 5 oz + mineral oil 2%	Prolivo 5 oz + FungOUT 2%

Disease incidence

Infected clusters (%) · at harvest, Sep 18, 2025



- Randomized complete block, 4 replications, 16 ft plots; 30 clusters per plot rated
- Spray volume 45–80 gpa; other sprays identical in both programs
- Final rating at harvest, Sep 18, 2025
- Sustainable program statistically similar to conventional; both better than untreated check

Means followed by the same letter do not significantly differ (p = 0.05, LSD).

FungOUT has not been registered by the United States Environmental Protection Agency. AEF Global Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act. Please refer to product label for complete application details. Always read and follow label directions. Log on to www.aefglobal.com for full label information.

Let's talk about your spray program. aefglobal.com | info@aefglobal.com

Manufactured by AEF Global • 440, 3e avenue, suite 100, Lévis (QC) G6W 5M6 | Toll free 1 (866) 622-3222 • Tel. (418) 838-4441 • Fax (418) 838-9909