

ACTIVATE YOUR PLANT'S NATURAL DEFENSE MECHANISMS FOR HEALTHIER CROPS AND INCREASED YIELDS

HOW VACCIPLANT® WORKS

VACCIPLANT is a specific, purified polysaccharide (sugar) molecule from the *Laminaria digitata* which contains active biological compounds that trigger an immune response when applied to actively growing plants. VACCIPLANT is fully systemic, with multiple modes of action: SAR (systemic acquired resistance) and ISR (induced systemic resistance) which stimulate production of both the salicylic and jasmonic acid pathways for more effective results.

FEATURES & BENEFITS

- Fully systemic with whole plant response
- Allows protection against a wide range of pathogens
- Increases overall plant health and vigor for higher yield potential
- Natural, nontoxic molecule
- Not harmful to beneficial organisms
- No stunting or phytotoxicity concerns
- Exempt from residue tolerances
- Extended shelf life has been observed in certain crops
- Economical tank-mix partner

CA registration for grapes & lettuce (see reverse for use rates & data)

APPLICATION RECOMMENDATIONS

GRAPES, WESTERN U.S.

Add VACCIPLANT as a tank-mix partner to your current powdery mildew program 4+ per season for optimal benefit.

RATE RANGE: 14–60 fl oz/acre

RECOMMENDED RATE: 16 fl oz/acre

WATER VOLUME:

Less than 100 GPA, use 14 fl oz/acre;

Above 100 GPA, apply at 0.15% v/v.

REI: 4 hours

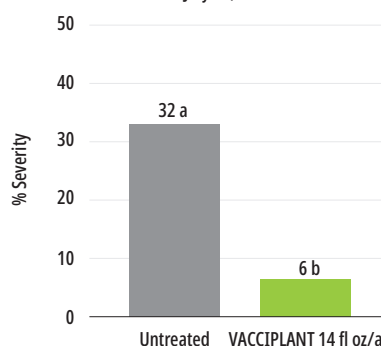
TIMING:

4+ applications per season:

- 1) 12–18" shoot growth
- 2) Pre-bloom bunch elongation
- 3) Post-bloom, early berry development
- 4) Bunch cover spray

PHI: 0 days

Powdery Mildew on Bunch
July 31, 2020



Researcher: Sawtooth Ag Research
Application Dates : 5/30/20, 6/5/20, 6/12/20, 6/19/20, 6/26/20 and 7/3/20
Statistical Analysis: Means followed by the same letter are not significantly different at LSD P = .05



LETTUCE

Add VACCIPLANT as a tank-mix partner to your current downy mildew program 4+ times per season for optimal benefit.

RATE RANGE: 14–22 fl oz/acre

RECOMMENDED RATE: 16 fl oz/acre

WATER VOLUME:

Less than 70 GPA, use 14 fl oz/acre;

Above 70 GPA, apply at 0.15% v/v.

REI: 4 hours

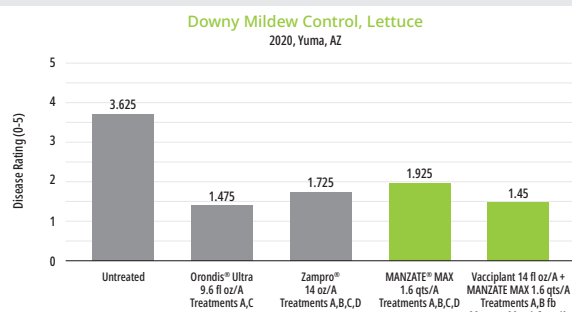
TIMING:

4+ applications per season:

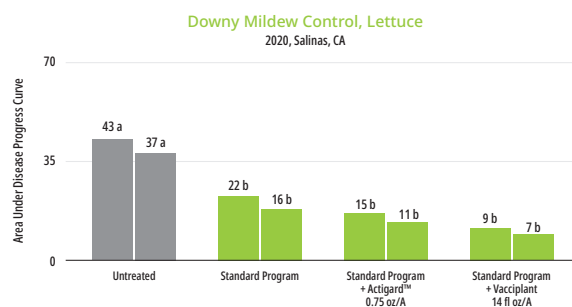
- 1) Direct seed, transplant, post-thinning, second cultivation
- 2–4) 7- to 14-day retreatment intervals

PHI: 0 days

In 2020 trials conducted in Yuma, AZ, and Salinas, CA, VACCIPLANT was shown to be an effective component of downy mildew control programs.



Location: University of Arizona – Yuma Agricultural Center
Researcher: Dr. Bindu Poudel, Martin Porchas Sr., Rebecca Ramirez
Planting date: 9/19/2019
Treatment dates: A) 1/26/2020 B) 2/7/2020 C) 2/19/2020 D) 2/27/2020
Thinning date: 1/6/2020



Application Dates and Standard Program:
8/6/20 - Manzate Pro-Stick 1.6 lbs/A, 8/13/20 - Orondis® Ultra 7.4 fl oz/A, 8/21/20 - Previcur® Flex 32 fl oz/A, 8/27/20 - Reeson® 5.5 fl oz/A. Vacciplant 14 fl oz/A was applied alone or in tank-mix combination with the standard program at each application timing. All treatments included Dyne-Amic® non-ionic surfactant at 6.4 fl oz/A.
Statistical analysis: Means followed by the same letter are not significantly different at LSD P = .05.

