

Fact Sheet

POWDERY MILDEW



DATE: May 2020

LOCATION: UC Davis, California



UC Davis greenhouse bioassays evaluated the ability of NanoCrop, *Powered by PureCrop Nanotechnology*, to eradicate existing powdery mildew infections and analyze residual action against reoccurring infections. The test plots were treated once via foliar spray before measuring results at 72 hours, five days, and seven days.

NanoCrop was found to perform as well as or better than the leading standard and is a viable commercial fungicide.



KEY TAKEAWAYS

There are no seasonal limitations when using NanoCrop.

Apply before mildew develops to prevent plant infection.

NanoCrop can perform better than leading commercial fungicides.

Provides protection for up to 10 days after the initial application.

The top graph displays the results of the initial set of trials assessing NanoCrop's residual control against powdery mildew in high infection pressure conditions. The bottom graph shows the results of the second lab trial with the same purpose.

Treatment	72 hrs	5 Days	7 Days
WOC	7	18	21
WOC	7	14	19
NanoCrop .66%	0	0	0
NanoCrop .66%	0	1	2

Treatment	72 hrs	5 Days	7 Days
WOC	3	9	11
WOC	5	14	19
NanoCrop .66%	0	0	0
NanoCrop .66%	0	0	1

*number of infected leaves per potted rose plant

DILUTION RATES

Curative treatment:
1.5% v/v rate until control

Preventative care:
0.75% v/v rate every 10-12 days

Adjuvant Use:
1 pt. - 1qt. NanoCrop / 100 gallons

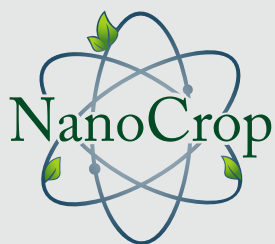
*FREQUENCY AND DILUTION RATES DEPEND ON THE VARIATION IN CROPS, GROWING METHODS, CLIMATE, AND GEOGRAPHY. ADJUST YOUR IPM PROCESS BASED ON YOUR SPECIFIC NEEDS.



Scan the QR Code to read more about this study!

*All references to "NanoCrop" in this fact sheet and referenced data refer to and reference PureCrop1 data, results, and application. NanoCrop's formula is based on PureCrop NanoTech and is optimized for commercial agriculture application. Results will be comparable.

See these results in **YOUR** fields
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Vs

A COMPARISON

Crop Oil

Start Your Crops Off Right This Season



This farm uses NanoCrop on Stone Fruit, Almonds, and Walnuts.

NanoCrop

- Spray timing can be later due to no Phytotoxicity
- Only one spray needed
- Uniform bloom
- Increase nutrient uptake
- Reduce abiotic stress
- Safe to spray up to bud swell
- Safe to use with beneficials
- Safe for bees
- Rain-fast in two hours
- **Diseases & Pests Controlled (Include):**
 1. Alternaria spores
 2. Anthracnose
 3. Blossom rot
 4. Cherry leaf spot
 5. Fireblight
 6. Mite Eggs
 7. Peach leaf curl
 8. Scale



Crop Oil

- Need to spray earlier due to risk of phytotoxicity
- Could require multiple applications
- Long-term negative effects in bee population
- Crop oil is a product of petroleum production
- Can diminish weak trees