Fact Sheet

POWDERY MILDEW

DATE: May 2020

LOCATION: UC Davis, California

NanoCrop

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 TAKEWAYS

- There are no seasonal limitations when using NanoCrop.
- NanoCrop can preform better than leading commercial fungicides.
- Apply before mildew develops to prevent plant infection.
- 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.

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.*

BENEFICIAL FRIENDLY · PLANT BASED · ZERO HOUR REI & PHI

Number of Infected Leaves Per Potted Rose Plant

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 were reordered*

**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.*

Scan the QR Code to read more about this study!

See these results in YOUR fields
Call our team today! +1.707.972.5650

NanoCrop Label Summary

OPTIMIZED FOR COMMERCIAL AG
POWERED BY PURECROP NANOTECH

NanoCrop

Modes of Action

INSECTICIDE

Eliminates sap-sucking insects by interfering with their digestive enzymes, causing constant micelle expansion and rupturing the insect. NanoCrop — Powered by PureCrop NanoTech — is safe for use around beneficial insects, such as honey bees, predatory mites and wasps, and ladybugs.

FUNGICIDE

Contains surface acting agents that physically remove mold and mildew from the leaf's surface. The micelle encapsulates and biodegrades spores, while also preventing reattachment and growth for up to ten days due to its translaminar properties.

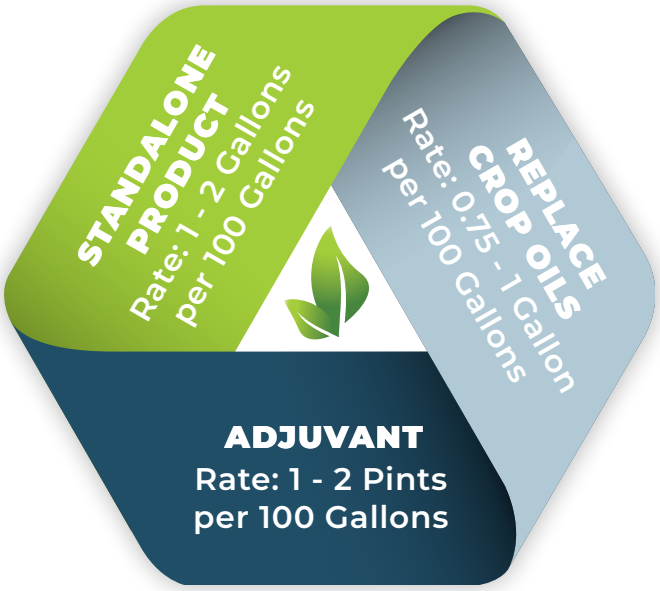
BIOSTIMULANT

NanoCrop is made of long-chain fatty acids that the plant converts into amino acids, which reduces interfacial tension, and enhances mesophyll conductance and ion transfer capacity—resulting in the ability to respond to abiotic stress, maximizing water and nutrient utilization and improve overall plant health.

SUPRA-MOLECULAR SURFACTANT

NanoCrop utilizes surfactant molecules, micelles, to lower the surface tension of water. They enable NanoCrop to spread and adhere to leaf surfaces uniformly, while dispersing evenly in water and mix indefinitely. Micelles do not clog or flood the stomata due to their size and are compatible with most products, except other surfactants.

NanoCrop Uses



PESTS & DISEASES

Including, but not limited to: Aphid, Asian Citrus Psyllid, Broad Mite, Citrus Rust Mite, Spider Mite, Russet Mite, Thrips, Whiteflies, Lygus, Stink Bug, Leaf-Footed Plant Bug, Mealybug, Scale, Snail, Botrytis, Fusarium Wilt, Downy Mildew, Powdery Mildew, Alternaria, Anthracnose, Bacterial Blast, FireBlight.

BUFFER RECOMMENDATIONS

Buffer water to pH 5.5-5.8 with citric acid before adding NanoCrop. Do not buffer with ammonia sulfates or sodium based buffers.

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