

Proud 3[®] Controls Anthracnose on Geranium

Research Report

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Objective

The objective of this study was to test the efficacy of Huma Gro[®] Proud3[®] for the control of the anthracnose pathogen *Colletotrichum acutatum* on greenhouse-grown geranium plants.

Materials and Methods

Geranium plants (*Pelargonium* sp.) were inoculated with the fungal pathogen *Colletotrichum acutatum* and placed in completely randomized design inside a flood table enclosed in a clear plastic cover where relative humidity was maintained near 90% for the first 4 days post-inoculation to favor infection. Proud3[®] was applied as a direct foliar spray using a hand-held CO₂-powered sprayer on a weekly basis for a time-period of 5 weeks at a dilution rate of 1:100.

Disease incidence and severity data were collected weekly starting 5 days after the first biofungicide treatment. Disease incidence was expressed as a percentage (%) of leaves showing anthracnose symptoms on each plant, while disease severity was expressed as the percentage (%) of leaf area covered by anthracnose symptoms on each plant.

Results

Huma Gro[®] Proud3[®] decreased the incidence and severity of anthracnose disease on geranium plants (figures 1 & 2).

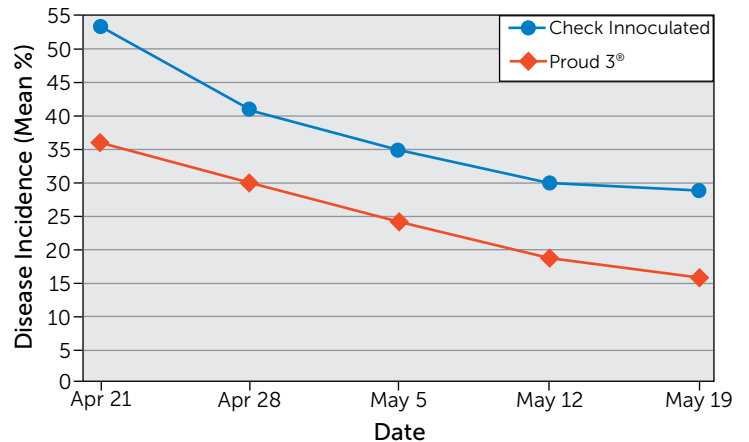


Figure 1. Incidence (mean %) of anthracnose on geranium plant.

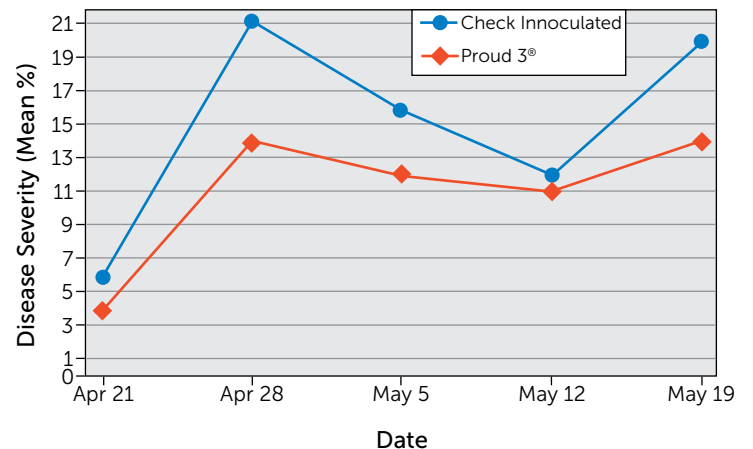


Figure 2. Severity (mean %) of anthracnose pathogen *Colletotrichum acutatum* on geranium plants.

Conclusion

Huma Gro[®] Proud3[®] demonstrated efficiency for the control of the anthracnose pathogen *Colletotrichum acutatum* on geranium plants.