

ChitoPlant®

Cucumber

ChitoPlant® was tested against the following pathogens: *Verticillium albo-atrum*, *Rhizoctonia solani*, *Sphaerotheca fuliginea* and *Erysiphe cichoracearum*.

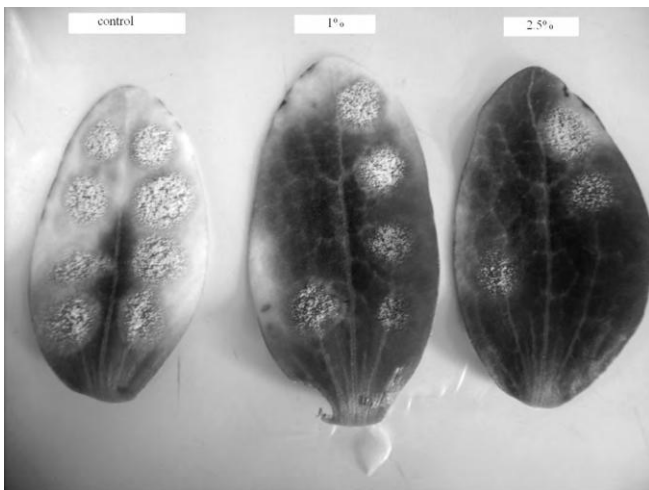
ChitoPlant® strengthens your plant's resistance towards various pathogens by enhancing the plants own defence mechanisms and increase the number and quality of your yield.*

The eliciting effect of **ChitoPlant®** triggers immune responses in cucumber (and other cucurbit) plants which leads to fewer and less severe infections. These immune responses include increased production of chitinases and chitosanases as well as lignifications of cell walls, which makes it more difficult for phytopathogens to infect the plant.*

Studies with chitosan treated plants showed higher cumulative yield, bigger fruit size, enhanced fruit number per plant and root fresh and dry weight of plants.

For optimal protection and yield increase spray the plants with an aqueous **ChitoPlant®**-solution of 0.5g/L every 14 days.

ChitoPlant®-solution can be easily sprayed with conventional equipment.



Effect of chitosan concentrations (control, 1% and 2.5 %) on the development of powdery mildew lesions on cucumber cotyledons inoculated with the conidial suspension (4×10^5 spores ml⁻¹) of *Sphaerotheca fuliginea*.

Cucumber		
Purpose	Yield increase / disease prevention	curative
Mode of application	Foliar spraying (dripping wet)	Foliar spraying (dripping wet)
Concentration	0.5g/L	1g/L
Time of application	Every 14 days	every 10-12 days (maximum);
Notifications	increase concentration up to 1g/L if infestation pressure is high or cultivar is susceptible to pathogens	alternating with conventional treatments (e.g. copper-products) is possible
Preparation	To avoid agglutination dissolve ChitoPlant completely in a small amount of water before filling up to total required volume.	

*For more Information on ChitoPlant and its Mode of Action contact us: Info@ChiPro.de

References:

- CONTROL OF POWDERY MILDEW ON CUCUMBER COTYLEDONS BY CHITOSAN**
A. Moret, Z. Muñoz and S. Garcés 2009
- Effect of Chitosan on Cucumber Plants: Suppression of *Pythium aphaniderantum* and Induction of Defense Reactions**
El Ghaouth, et. Al. Université Laval, Quebec 1993

For more information on **ChitoPlant®** and detailed application guidelines please contact us.

Email: Info@ChiPro.de or Fon: 0049 (0) 421 276 569 24

ChiPro GmbH - Anne-Conway-Str. 1 - 28359 Bremen, Germany

Sparkasse Bremen, BLZ 290 501 01, Kto-Nr.: 105 92 60, SWIFT-/BIC-Code: SBRE DE22, IBAN: DE98 2905 0101 0592 60, VAT Nr.: DE20 2141 987, HRB: 187 55, Steuer-Nr.: 7155 9024 55