

# ChitoPlant®

## Grape

ChitoPlant® offers protection against various pathogens in viticulture.

*Plasmopara viticola* and *Botrytis cinerea* are only two of the pathogens treatable with ChitoPlant®.

A treatment with ChitoPlant® increases the amount of defence related enzymes such as chitosanase and peroxidase which protects fruits and plants from the pathogen; it also enhances the lignifications of the cell walls which further increases resistance against infections.\*

In several studies, plants treated with chitosan showed **50-80%** fewer infections with downy mildew compared to untreated plants. Foliar treatment of young grapevines with chitosan-solution results in **90%** lower disease incidence and lesion diameter

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

Please see table below for information on application.

Grape		
Mode of application	Foliar spraying (dripping wet)	
Purpose	disease prevention	curative
Concentration	0.5g/L	1g/L
Time of application	At bloom, berry set, bunch closure, veraison and 3 weeks before harvest	apply every 10-12 days (maximum)
Notifications	increase concentration up to 1g/L if infestation pressure is high or cultivar is susceptible towards 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](mailto:Info@ChiPro.de)

#### References:

- Integration of different control measures to maximise disease control of *Plasmopara viticola* in Italian organic viticulture**  
Dagostin S., Ferrari A., and Pertot I.
- Efficacy of plant protection agents against *Plasmopara viticola* on grapevine under controlled conditions**  
Dr. Lucius Tamm, FiBL Mittelprüfung 2005
- Control of downy mildew of grapevines by boosting their natural defence system**  
David Riches, Department of Primary Industries, Victoria 2005

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