

EQUISOL



BROADSPECTRUM / BIOFUNGICIDE

CHARACTERISTICS

EQUISOL contains natural active ingredients with fungicidal activity and elicitors of the defense mechanism against pests and diseases. **EQUISOL** is composed of chitosan hydrochloride, *Equisetum arvense* (horsetail) and willow bark extract (*Salix* spp. Cortex).

Bactericidal activity:

The bactericidal activity of chitosan is associated with its cationic character. The amino free groups, positively charged in an acidic medium, interact with negative charges of the cell membrane of fungi, changing the permeability of the plasma membrane, with the consequent alteration of its main functions.

Fungicidal activity:

Chitosan is a polysaccharide that acts as a bio remedial molecule and stimulates the activity of beneficial microorganisms in the soil, such as *Bacillus*, fluorescent, *Pseudomonas*, Actinomycetes, mycorrhizae and rhizobacteria, which alters the microbial balance in the rhizosphere, putting plant pathogens at a disadvantage, making them able to compete through mechanisms such as parasitism, antibiosis and induced resistance.

EQUISOL is a good natural fungicide that also induces the plant to improve its immune system.

Antiviral Activity:

Pretreatment with chitosan significantly reduces viral infection in several plant species.

Growth Stimulation:

Applying chitosan has positive effects on plant growth, stimulating both seed germination and the growth of plant parts such as roots, shoots and leaves. The salicylic acid in willow bark extract produces a biostimulant effect on the various metabolic processes of the plant, also inducing plants to generate natural defense mechanisms.

ACTIONS

- **ACTIVATES THE PLANTS' DEFENSE MECHANISMS**
- **ALL-NATURAL FUNGICIDE.**
- **IT FAVORS THE DEVELOPMENT AND GROWTH OF PLANTS.**
- **RICH IN SILICA**
- **STRENGTHENS THE PLANT TISSUE.**

COMPOSITION

%w/w

Decoction of horsetail (<i>Equisetum arvense</i>)	2,0
Willow bark extract (<i>Salix</i> spp. cortex)	0,22
Purified Chitosan	2,0



DOSES AND APPLICATIONS

Crops	Objective	Time of appl.	N° Appl	Interval between appl	Dosage ml/ha	Crops	Objective	Time of appl.	N° Appl	Interval between appl	Dosage ml/ha
Apple trees (<i>Malus pumila</i> , <i>Malus domestica</i>) Peach trees (<i>Prunus persica</i>)	Leaf fungi such as apple scab disease: <i>Venturia inaequalis</i> . Powdery mildew: <i>Podosphaera leucotricha</i> . Peach leaf curl: <i>Taphrina deformans</i> .	From bud break to wilting of the flowers. Spring.	2-6	7 days	300-500	Tomato (<i>Solanum lycopersicum</i>)	Early blight: <i>Alternaria solani</i> . Septoria leaf spot: <i>Septoria lycopersici</i> .	From the first visible inflorescence until the flower is about to open. Summer.	2	14 days	300-500
Grapevine (<i>Vitis vinifera</i>)	Downy mildew: <i>Plasmopara viticola</i> . Powdery mildew: <i>Erysiphe necator</i> .	From the development of the first shoots until the berries start touching.	2-6	7 days	300-500	Strawberry (<i>Fragaria x ananassa</i>) Raspberry (<i>Rubus idaeus</i>)	Gray mold: <i>Botrytis cinerea</i> . Powdery mildew: <i>Podosphaera aphanis</i> . Other fungi: <i>Colletotrichum acutatum</i> .	Restart of growth until the end of fruiting from early spring to late summer.	4-8	5-14 days	300-500
Cucumber (<i>Cucumis sativus</i>)	Downy mildew: <i>Podosphaera xanthii</i> . Root fungi such as root rot or blight: <i>Pythium</i> spp.	From the ninth unfolded leaf until nine or more visible lateral shoots.	2	3-4 days	400-600	Potatoes (<i>Solanum tuberosum</i>)	Late blight: <i>Phytophthora infestans</i> . Early blight: <i>Alternaria solani</i> . Powdery mildew: <i>Erysiphe chichoracearum</i>	From bud break to fruit ripening	4-8	5-14 days	300-500
<p>EQUISOL is compatible with most phytosanitary and nutritional products on the market. Do not mix with alkaline products. If in doubt, carry out a prior compatibility test. The product is suitable for use in organic agriculture according to Regulation (EU) 2018/848 and in compliance with the NOP standard.</p>						Ornamentals	<i>Marsonia</i> spp., <i>Phragmidium mucronatum</i> , powdery mildew, and downy mildew	One single foliar application when the first symptoms of the disease appear.	1	---	400-600

PACKING:

