



NOVAPROTECT

YOUR NATURAL ALLY «0 RESIDUE» FOR YOUR CROPS ROOTS PROTECTION



BIOFUNGICIDE

TUSAL



TUSAL®

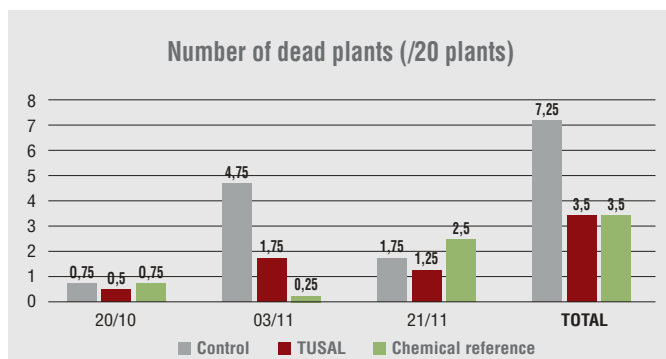
Preventive biological fungicide for the control of soil diseases on vegetables and ornamental crops by drip application system

NOVA PROTECT

Tusal® is a preventive biofungicide against soil diseases, composed of 2 strains of Trichoderma: *Trichoderma asperellum* s. T25 and *Trichoderma atroviride* s. T11.

As effective as chemicals, Tusal® has a multiple mode of action:

- **Competition:** *Trichoderma* T25 and T11 strains grow rapidly and colonize the soil and the plants root system. It prevents the development of fungal diseases.
- **Parasitism and antagonism:** Tusal® eliminates fungal diseases by producing enzymes and antibiotics that destroy their cell walls.
- **Enhance plant resistance to soil diseases** by the production of molecules involved in these mechanisms.



→ Tusal is as effective as the chemical reference against *Fusarium oxysporum* on tomato (Spain)



Tusal® is 100% natural and as effective as chemicals against soil diseases

Tusal® is a 100% natural and multi-target biofungicide. Tusal® is as effective as chemical products against soil diseases on vegetables and ornamentals. Thanks to its different mode of action, Tusal® manages the development of resistance of the diseases to the phytosanitary products.



Tusal® leaves no residue on your crops

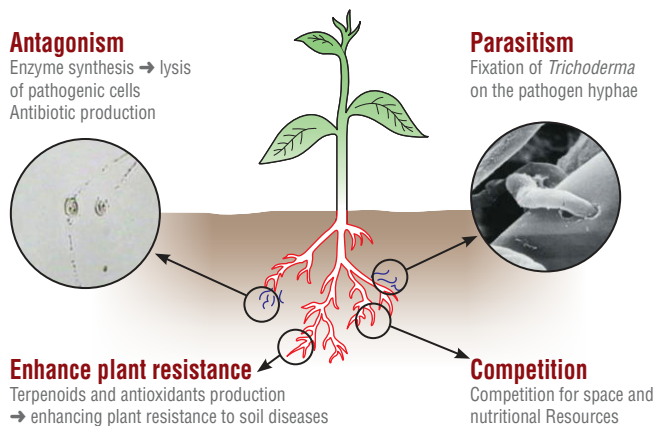
The active substance of Tusal® is of natural origin, that is why the product leaves no chemical residue on your crops. In addition, Tusal® preharvest interval (PHI) is 0 to 1 day.



Tusal®: compatible with most of the chemicals and has a wettable granules formulation

The wettable granules formulation of Tusal® is easy to use. It optimizes the release of the active ingredient and gives the product greater resistance in adverse conditions.

Tusal® is compatible with most of the plant protection products and foliar fertilizers. Tusal® can be simply integrated in the different ways of production (conventional, IPM and biological). The use of Tusal® in IPM and conventional programs lightens the chemical balance of your crop.



Crop / Disease	Dosis	Remarks
Strawberries Pythiaceae fungi (<i>Phytophthora</i>)	2 kg/ha (3 applications maximum)	<ul style="list-style-type: none"> • Apply Tusal® with drip application system or soaking.
Vegetables and ornamentals Pythiaceae fungi (<i>Pythium</i> , <i>Phytophthora</i>) Other fungi than pythiaceae (<i>Sclerotinia</i> , <i>Fusarium</i> , <i>Rhizoctonia</i>)	1 kg/ha then 0,5 kg/ha on the following applications (5 applications maximum)	<ul style="list-style-type: none"> • Soil treatment: Apply Tusal® 5 to 7 days before sowing or transplanting. Repeat the application 20-30 days after the first application, then at half of the crop cycle. • Soaking: Dip the plants for 10 minutes, shaking constantly.

PHI : 0 to 1 day.

Mixture

Tusal® must be applied through drip irrigation system.

- Add Tusal® in a small amount of water.
- Let the granules hydrate in water over 5 minutes.
- This suspension should be prepared and used the same day.
- Add to the application container:
 - Immersion: dilute the suspension up to 0.2% Tusal® in water.
 - Soil treatments: Add the suspension in enough water to obtain a uniform application (usually about 2000 liters).
 - Incorporation into the substrate or wetting trays or flowerbeds: add the suspension directly to the humidified substrate. Mix well to obtain a homogeneous product distribution.

Main feature

- Active substances: *Trichoderma asperellum* s. T25 (1.10⁸)
Trichoderma atroviride s. T11 (1.10⁸)
- Wettable granule: WG
- Packaging: 1kg box containing 2 bags of 0,5kg.

Provided by

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