

E R G O F I T O I N A C T I O N

Give Nature What Nature Wants

Understanding Plant Diseases



ERGOFITO

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How Ergofito Helps Plants Combat Sicknesses?

The multiplication of the beneficial bacteria acts in an antagonistic and repressive way towards the phytopathogenic micro-organisms, particularly present in soils lacking humus. The mechanism of this antagonistic/repressive action towards the phytopathogenic microorganisms can be summarized as follows:

- **Micro parasitism:**
Occurs when the lyses of the cell of fungi and pathogen mildew or nematodes are attacked through enzymatic activity.
- **Soil sanitation:**
Occurs with the entry of toxic metabolites for the pathogen micro-organisms, such as phenols, tannins, chlorogenic acid and auxins (biochemical resistance)
- **Food competition:**
This action takes place by the new micro-organisms devouring the existing food source present in the soil and starving the pathogens.
- **Strengthening of the threshold resistance:**
Promote the structural thickening of the tissues of the epicuticular layers of protection of the leaves and roots that impede penetration into the plant.

The mechanism:

The stimulation of the bacterial activity allows the beneficial (**Ergofito**) micro-organisms to occupy spaces in the plant and the surrounding soil in a complex series of physical, chemical and biological reactions that act against the agent that cause plant diseases.

- Reduction of the spaces which are normally occupied by pathogens
- Creation of biological antagonistic control of pathogens
- Accentuation in the reaction of the plant's immune system
- Stimulation of the production Phytoalexin

ERGOFITO ACTION IN PREVENTIVE AND CURATIVE SITUATIONS:

- More efficient defense against parasitic insects due to the plant strengthening
- Fungal preventive action to confront the infections due to *Mycogone* and *Verticillium*
- Rot control in seedbeds caused by *Pythium* and *Phytophthora*.
- Basal rot control of vegetable crops, agricultural and ornamental due to *Phycomycete* and *Rizoctomia*, *Sclerotium*, *Sclerotinia*, *Botrytis* etc.
- Reduction in the incidence of vascular diseases responsible for the withering caused by *Fusarium* and *Verticillium*.
- Preventive and curative action in the arboreal cultures (orchards, urban greenery, citrus etc.) as well as forestal fragrances towards the responsible agents for branch cancer (*Nectria*, *Cytospora*, *Phopsis* etc.). Also towards radical attacks due to *Basidiomycetes* (*Armillaria*, *Fomes*, *Stereum*, etc.) It will also protect pruning cuts from being penetrated by pathogenic fungi.



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