



RHIZO MIC™

Beneficial Fungi
& Bacteria

Sineria



RHIZO MIC™

Natural Bio-Fungicide

Rhizo Mic™ protects the plants through its highly developed natural attributes.

It contains beneficial bacteria and fungi:

- Beneficial bacteria:
 - *Rhizobium sp.* 8×10^7
 - *Bacillus subtilis* 2.4×10^7
 - *Bacillus mycoides* 2.4×10^7
- Beneficial fungi:
 - *Trichoderma viride* 2×10^8
 - *Mycorrhizae* 1×10^2

Rhizo Mic™ protects the crops against most of the soil-borne diseases but also promotes the growth, resistance, yield production and general well-being of plants.

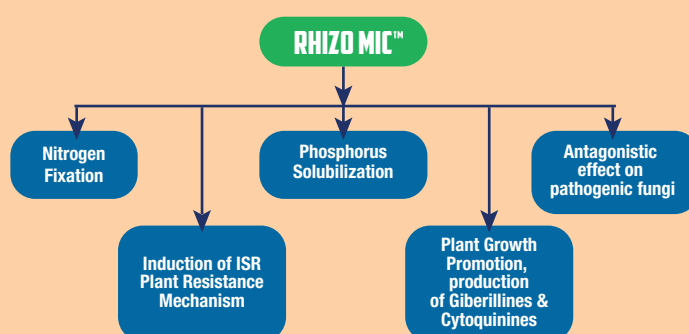
It is the best solution against:

- *Pythium sp.*
- *Fusarium sp.*
- *Phytophthora sp.*
- *Verticillium sp.*
- *Rhizoctonia sp.*

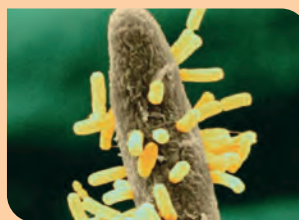
Beneficial bacteria developing root nodules on a host plant, following a treatment of Rhizo Mic™



Benefits of Rhizo Mic™:



Methods of Application:



- Seed treatment;
- At transplant;
- Via the irrigation system;
- Directly sprayed onto the ground.

Application:

Most Important:

The Microbes must reach the root Zone!

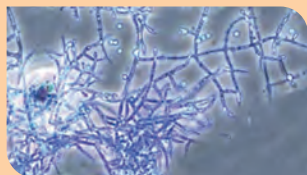
Application Rate: 2-5 kg / Ha

- Suitable for all kind of crops;
- Ideal for Vegetables, legumes such as soybeans, faba beans, peas and French beans, Ornamentals and Seedlings.

Mode of Action

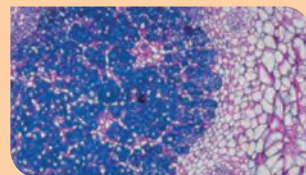
Trichoderma sp. Complex:

- It is antagonistic to the disease, competing with fungi for nutrients & space;
- Produces and releases to the soil metabolic compounds that inhibit the development of the pathogens;
- Induces ISR (Induced Systemic Resistance);
- Directly attacks the pathogen.



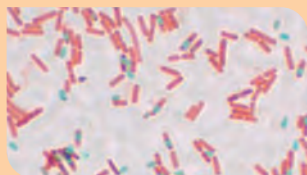
Bacillus mycoides

- Lives in the rhizosphere and has the ability to convert peptone into ammonia;
- Promotes plant growth and induces systemic resistance against various plant diseases by producing volatile organic compounds.



Bacillus subtilis:

- The ability of this strain to protect plants against phytopathogens relates to antibacterial and antifungal polypeptide biosynthesis;
- B. subtilis is also known to be antagonistic toward many fungal plant pathogens, competing for nutrients, site exclusions and colonizations;
- Elicits Plant Resistance Mechanisms (SAR) in treated vegetation.



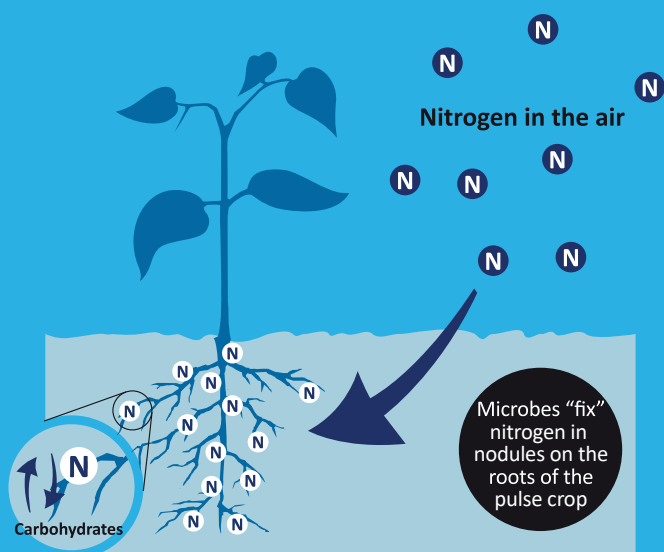
Rhizobium sp.

- Forms a symbiotic association with roots of certain plants such as legumes where it will develop within certain root cells, forming nodules;
- Fixes nitrogen from the air into ammonia, which will act as a natural fertilizer for the plants.



Nitrogen Fixation

Although Earth's atmosphere contains more than 78 % Nitrogen, this cannot be directly used by the plants. The beneficial bacteria contained in Rhizo Mic™ makes atmospheric Nitrogen usable for the plants through a process known as "Nitrogen fixation", resulting in healthier and sturdier plants, and significant yield increase.



Nitrogen fixation nodules of beneficial bacteria contained in Rhizo Mic™



Field Results



Left picture: Application of **Rhizo Mic™**, results in healthy, vigorous plants with a well-developed root system. Plant at left side is treated with **Rhizo Mic™**.

Right picture: Effect of **Rhizo Mic™** on the plant and root system development of pepper plants. The 2 plants on the left are treated with **Rhizo Mic™**.

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RHIZO PROTECT™