



SGDA srl

4, via Mellana
I - 15033 CASALE MONFERRATO (AI)

Linea di Prodotti ECOENZIMI®

Trattamenti Enzimatici per l'Agricoltura, la Zootecnia, la Sanificazione

Enzyme treatment

Cultivation of rice

Produzione

ECO ENZIMI srl
Località Cascine Lunghe
I - 15027 Pontestura (AL)

Reti di Distribuzione

Italia - Francia
Portogallo - Spagna

Commercializzazione

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Field of rice var. Croesus sown 06 May 2009, the middle rows have been tanned (photo taken May 20, 2009, 14 days populate sowing).

The company has launched ECOENZIMI tests on rice cultivation at the farm "Cogo" Borgo Vercelli. We want to prove that it is possible to grow rice using natural products, reducing the intake of synthetic substances (weeding, fertilizers and pesticides).

Characteristics of the Enzyme Blend employee acting bi-catalyst:

- A mixture of groups of enzyme catalysts (dehydrogenase, oxidase, transaminase, chymase, lipase, amylase, peptidase, isomerase, mutase and synthase);
- A mixture of vegetable biostimulants (calcareous algae of Normandy) rich in iodine, potassium, calcium, aluminum, manganese, iron, phosphorus, sulfur, copper, nickel, gold, zinc, cobalt, strontium, titanium, vitamins (A, B1, B2, B3, B6, B12, C, D, E, F, K, PP), starch, chlorophyll, fatty acids, proteins with amino acids and substances with antibiotic activity valuable. Contain biostimulants (caidrina, alginic acid, betaine) that also act on cells of the root by increasing the resistance against some pest insects, aphids and cryptogams;
- A mixture of microorganisms selected yeasts and mesophilic flora, which distributed in the soil improves the capacity for absorption of nutrients for plants and start the process of cleaning up and remediation;
- mixture tectoalluminosilicati hydrates (cabas, Phillips) with cation-exchange catalyst action and hinders the development of pathogenic mushrooms;

A mixture of humic substances (humic acids, fulvic acids and Umina), are pursuing action on the growth and plant metabolism, affect the activity of many enzymes and photosynthetic processes.

Mechanisms of action of the enzyme in different stages:

- tanning
- defense against cryptogams planting
- Plant Nutrition
- defense of kernels.

TANNING: the timing of germination depends on the action of specific hormones (Abscisic acid, gibberellin and cytokinins), which in turn control and stimulate the germination of seeds through the transcription of mRNA of certain enzymes and the activation of specific enzymes involved in the mobilization of reserves nutrients of the seed. Many other enzymes involved in the process of hydration of the seed and in the 'action of softening of the wall and the integument of the seed coating, favoring a faster germination.

The dressing of seed with the Enzyme Blend promotes faster growth, homogeneous, higher denseness and seedling resistance to attack by fungal and bacterial pathogens in the soil. You have a specific action against fusarium (Fusarium spp.) Bruson and the leaves, the sheaths, culm and panicle (Piricularia oryzae).

Rapid growth, early and ensure a more dense development and at the same time prevent the spread of weeds.

DEFENSE CRITTOGAME AND OTHER PESTS: Another important action of Enzyme Blend is to increase the natural resistance of plants to attack by pathogens, through the production of secondary metabolites often found in the form of inactive precursors which are converted into active form (saponins) from plant enzymes.

Good performance against fusarium basal part of culm have occurred, as well as tanning, with treatments in post-emergency treatments during flowering can prevent attacks on the ears.

One important measure in combating fusarium is to preserve plants from mycotoxins that can cause food poisoning.

PLANT NUTRITION: characteristic of Enzyme Blend is to biostimulants rich vegetables contain nutrients, amino acids, vitamins, carbohydrates and microorganisms that perform the functions of soil and foliar fertilizer.

Both the dressing of seed that foliar fertilization and soil, promote a strong root system, foam boxes with thick and numerous radicals.



Root development of rice planted

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Entire field tanned sown 09 May 2009 (photo taken May 20, 2009).



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