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A-LINE
Agriculture

ADVANTAGES

Soil Mender

Reconstruction and balancing of natural biomass

Organic matter must be added if concentration in soil is less than 1.5%

Liquid biofertilizer

Enhancer of biological activities and biomass

Leaf fertilizers

Stimulation of metabolism, photosynthesis and enhancement of plant immune system



NEPh New Ecological Philosophy

Out of its Antibes Sophia Antipolis headquarters NEPh produces the best mixtures based on bacteria and enzymes for utilization in the following fields:

- Agriculture
- Ecology
- Zoo-technics

NEPh, with its products for agriculture, offers a natural and economical alternative.

A-LINE
Agriculture

Technology And Concept

NEPH technology is based on requirements which are completely different from those dictated by conventional chemical systems.

NEPH deems that the soil plays a fundamental part in any agricultural production. The soil is a complex laboratory that includes microorganisms composing its microbiology, minerals, organic components, colloids, sandstone and N-P-K nutritional components.

Humus, complex element that is specific to the organic content of the soil, is the vital basis that encompasses all elements describes above, whose impoverishment can compromise all agricultural production.

The NEPH Agriculture Product Line, in light of the above statements, is made up of three separate but related treatments.

The **first treatment** is a mere soil mender. Mending means correcting, and for such purpose NEPH has developed a bacteria-enzyme mix capable of promoting complex substances degradation into much simpler ones that become available in the food supply chain of the plants. Thanks to this treatment is the possible to fix most of the anomalies of soil.

The NEPH mending product is a bacteria-enzyme mixture that combines selected mycetes, ferments, zeolites, litho-calcar algae. It is lyophilized and stabilized, and ready for activation. These enzymes, combined with microorganisms are mainly of hydrolytic nature. Lipoproteins, sugar, vitamins and additional co-enzymes feed the main bacteria activities which are enhanced by a liquid booster promoting bacteria proliferation, stimulating bacteria already present in soil which are dormant due to chemical overdoses of synthetic fertilizers, heavy metals, pesticides and weed killers. Mycetes inside the NEPH mixes become antagonist of pathogenic fungi.

It is often seen in cultures treated with NEPH products a higher resistance to and control of phytopathies which are responsible of production and economic damages. Some of the NEPH enzymes inhibit the assimilation of heavy metals in the food chain of the plants due to a chelating action.

In organic agriculture it is not possible to use chemicals. NEPH is at the forefront of this as a real alternative to the usage of fertilizers and chemical fertilizers, allowing agricultural productions of a high standard with better smell, taste and form as requested by the market.

The **second treatment** is a biofertilizer, whose task is to improve the transport of nutritive elements developed by the mender towards the plant, the flower and the fruits, promoting in an energetic form the plant overall metabolism and its spontaneous defense system, yielding a better fruit. The bio-fertilizer is made of humic elements such as humic acid, fulvic acid, crenic acid, combined with nitrogen fixers of organic carbon, phosphorus extracted in hydro-alcoholic solution from plants, and of potassium as well extracted from plants and vegetal extracts which enhance their availability and their active principles.

The **third treatment** is a foliar fertilizer, made of vitamins, phyto-proteins, macro and micro nutrients, amino acids and other organic components that enhance the activity and the equilibrium of photosynthesis, reducing the anomalies caused by phytostress like excessive precipitations, thermal stress and prolonged draught.

As a conclusion, the technology developed by NEPH cannot be compared to a conventional fertilizing practice, since it is not a mere fertilizer, but a true agricultural system and a new philosophy for cultivating. The NEPH technology allows bio or integrated productions of high quality, with better smell, taste and feel results, uniform sizes, without any usage of molecules or substances dangerous to health and without any environmental impact.

A-LINE Soil Mender

The A-LINE SOIL MENDER is a lyophilized mixture of Bacillus s.p.p., Bacillus Thuringensis, Lactobacillus Acidopulus, Azotobacter, Azotococcus, Azomonas, Beijerinckia, Rhodospirillum, Chlorobium Rhodopseudomonas, Micens, Lichens, Pteridofite (Azolla) including high concentrations of alcaline PROTEINASES (a protein for the digestion of enzymes). Proteinases catalyze the hydrolysis of polymer proteins into their components amino acids and peptides. While the polymeric protein complex is in its original form insoluble, its components are water soluble and emulsifiable.

The product can be used in several applications beyond the pH range of 6.0, 10.5. These proteases are extremely resistant to external factors, very precise and non-specific in its degrading effects.

A-LINE Liquid Bio-fertilizer

This fertilizer is made of plant extracts that constitute all its active principles.

This product family is a phyto-stimulator of natural and biological origin, with extremely high stimulating and regenerating properties targeting the biomass present in the topsoil.

The products have characteristics that are specific and different according to the crops they are used for.

A-LINE Leaf Fertilizer

A-LINE LEAF FERTILIZER is a product that is applied to leaves and acts systemically helping the plants during stress period.

Phyto-stress can be caused by many factors, e.g. excessive precipitations with consequent hydro content in the plants, prolonged draught, excessive thermal jumps, excessive chemical and organic fertilizers, soil biomass inhibited by excessive concentrations of heavy metals, unbalanced pH, excessive concentration of phyto-treatment and stimulating substances that provoke dangerous anomalies, etc.

These are some of the causes that can weaken the plant and its immune system, making it vulnerable to parasites attacks, deadly if happening during the productive cycle. A-LINE LEAF FERTILIZER enhances the photosynthesis process, strengthens the plant metabolism and augments its capacity to assimilate inorganic substances, transforming them into organic ones.