NaturBio 850

COMPOSITION

Component	Content
Organic Matter	85% w/v
Total Amino Acids	4.30% w/v
Organic Carbon (C)	49.1% w/v
Total Humic Extract	78% w/v
Fulvic Acids	78% w/v
Total Nitrogen (N)	2.24% w/v
Organic Nitrogen (N)	2.24% w/v
Potassium Oxide (K_2O)	3.3% w/v
Phosphorus Pentoxide (P_2O_5)	0.039% w/v
Magnesium Oxide (MgO)	0.0038% w/v
Calcium Oxide (CaO)	0.043% w/v
Sulfur (S)	0.18% w/v

PHYSICAL-CHEMICAL PROPERTIES

Property	Value
Density	1.38 g/cc
pH	6–7
Electrical Conductivity (EC)	14,610 µS/cm
C/N Ratio	21.7

AMINOGRAM

Amino Acid	Percentage
Aspartic Acid	0.46%
Glutamic Acid	2.34%
Serine	0.19%
Proline	0.18%
Glycine	0.14%
Threonine	0.082%
Arginine	0.028%
Alanine	0.25%
Tyrosine	0.096%
Cystine	0.055%
Valine	0.15%
Methionine	0.027%
Isoleucine	0.25%
Phenylalanine	0.055%
Leucine	0.15%
Total Amino Acids	4.30%

DESCRIPTION

NaturBio 850 is composed of organic materials, primarily derived from plants such as amino acids, proteins, lipids, various acids, enzymes, nucleic acids, chlorophyll, lignin, quinones, waxes, sugars, and hormones. It also contains minerals and inorganic substances resulting from metabolic processes of yeasts and microorganisms. Completely biodegradable, its components are decomposed by microbial activity, making its nutrients available to plants.

AGRONOMIC BENEFITS

- Improves soil structure and water retention capacity.
- Increases soil porosity and aeration.
- Promotes the formation of the clay-humic complex, enhancing ion exchange and nutrient retention.
- Reduces potassium leaching, especially in sandy soils.
- Fixes micronutrients, improving plant assimilation.
- Stimulates microbial flora activity and development.
- Acts as a chelating agent and organic excipient for NPK and organo-mineral formulations.
- Improves the efficiency and mobility of fertilizers.
- Optimizes sap flow in the root–leaf system and stabilizes organic matter in soil.

MODE OF ACTION

- Humic acids in NaturBio 850 regulate plant nutrition by forming part of the soil's absorbent complex.
- Able to chelate metallic ions (e.g., Fe) and solubilize minerals for plant uptake.
- Promotes plant growth and seed germination.
- Enhances root mineral absorption.
- Compatible with most phytosanitary products and fertilizers.
- Chemically stable, long shelf life, unaffected by light.

FOLIAR APPLICATION

Season	Dose
Spring	200–300 cc/100 L water
Autumn	300–400 cc/100 L water

IRRIGATION APPLICATION

Crop	Dose	Instructions
Horticultural Crops	7–12 L/ha	3 treatments: post-transplant, and during fruit

		growth
Fruit Trees (mango, avocado, etc.)	7–12 L/ha	3 treatments: sprouting/flowering, fruit thinning, fruit fattening
Citrus	7–12 L/ha	2–3 treatments: Feb–Mar, Jul–Aug, Oct (for late varieties)
Banana	50–60 L/ha	4–5 applications per year
Corn and Sorghum	25 L/ha	2 applications: post-emergence, pre-flowering
Olive	12 L/ha	2 applications: spring and summer

PRESENTATION