

BIOGROW MOL

SOIL ENRICHMENT

BIOGROW MOL is a liquid fertilizer, 100 % soluble, which is applied through the irrigation system in fruit trees and crops, to improve the physical and chemical characteristics of soils with low organic matter content.

The manufacturing process of **BIOGROW MOL**, based on plant extracts, allows to obtain a product with a high organic matter content, higher than 42 % w/v, composed of fulvic acids, humic acids, L-amino acids, peptides and sugars.

BIOGROW MOL contains 37.0% w/v of total humic extract, which corresponds to 27.0% w/v of fulvic acid and 10.0% w/v of humic acid. With the added benefit of amino acids and sugars

GUARANTEED ANALYSIS

Element	% w/w	% w/v
Total Nitrogen (N)	5.20	6.81
Potassium (K2O)	2.10	2.75
Calcium (Ca)	0.30	0.39
Inorganic Sulfur (S)	2.40	3.14
Organic Carbon (C)	18.00	23.58
Fulvic Acid	20,60	27.0
Humic Acid	7.50	10.0

pH: 5.2 / Density: 1.31

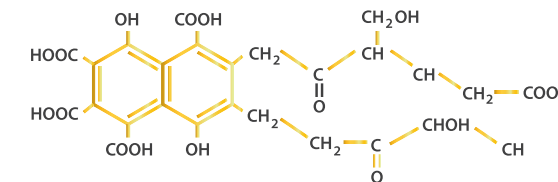
COMPARISON OF THE ACTION OF FULVIC ACID AND HUMIC ACID IN THE SOIL

FULVIC ACID		PLANT EFFECTS		HUMIC ACID		
Molecular Weight	Small	↑	Cellular Transport	↓	Molecular Weight	Big
Functionals chemical groups	Many	↑	Metals Chelation	↓	Functionals chemical groups	Few
Mobility & Functionality	High	↑	Metabolism	↓	Mobility & Functionality	Low
Physiological Action	High	↑	ROS protection and Growth	↓	Physiological Action	Low
Microbial Activation	High	↑	Mobilization of soil nutrients	↓	Microbial Activation	Low
Soil Structure	Low	↓	Water retention and Oxygenation	↑	Soil Structure	High

EFFECTS OF FULVIC ACID ON PLANTS AND SOIL

- By having low molecular weight, fulvic acid can be easily absorbed by the root system of the plants.
- Fulvic acid promotes root growth through the inhibition of indole acetic acid (IAA) degradation.
- It is able to chelate metals such as iron and potassium and thus increase its bioavailability for plants.
- Reduces the effects of water stress.
- It has a persistent effect over time.

THE FULVIC ACID



Molecular Weight: C14H12O8

Molecular Formule: 308.24 g / mol

BENEFITS OF THE BIOGROW MOL APPLICATION

