



# Fulvic Bio

Fulvic acid

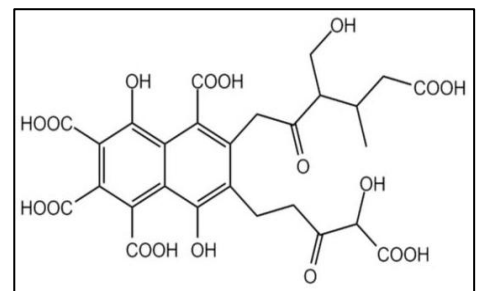
***100% natural and sustainable  
soil conditioner.***

## Introduction

Humic compounds are formed by the microbial degradation of plant material such as lignin. The main component being a group of humic acids which includes fulvic acids characterised by their lower molecular weight and therefore 'smaller'. Having lower molecular weight results in some interesting and useful chemical properties.

Fulvic acid readily form complexes, also known as fulvic colloids with elements such as iron, manganese and zinc and help solubilise phosphorus in the soil. Because, and unlike other humic equivalents, fulvic colloids are able to pass through biological membranes; this in turn increases availability and subsequent metabolism of nutrients by plants.

*Fulvic Bio* is a new, natural and sustainable fulvic acid formulation which is a simple by-product of a potable water purification process rather than the traditional high energy, chemical production method. The source is water, drawn from a depth of 300 metres below certain peaty soil areas in The Netherlands, which contains a small amount of natural humic compounds. This gives the water a slight colouration and although harmless, the compounds are removed by the Dutch water company before the water is supplied to consumers.



*Typical fulvic acid molecular structure*



## Uses

To rejuvenate tired, denatured and depleted soils in a natural, environmentally benign way.

To help replicate healthy soil properties in artificial growing media such as peat/coir-based composts.

Can be used in sequence with other Plant Health Cure soil amendment products to improve soils and other growing media still further.

Please contact Solufeed regarding other applications for *Fulvic Bio*.

## Benefits

- Restores and improves normal soil biochemistry.
- Increases availability and uptake of essential mineral nutrients.
- A natural product recovered from the processing of drinking water.
- Easy to use liquid formulation.

## Composition

Component	Value (~)
Fulvic acid	17 % w/w
Organic matter	3 % w/w
pH	8.34
CEC	94-185 cmol+/kg
Miscibility in water	100 %
Specific gravity	1.1

## Directions for use

### Soil application

Fulvic Bio should be applied at a rate of 5.0 mls per square metre in sufficient water to give good and even coverage.

For example add 50 mls of product to a 5 litre watering can full of water, mix and apply through a fine rose or dibbler bar to 10 square meters of soil.

Apply Fulvic Bio when the soil is being prepared for planting. The foliage of plants can be irrigated with water containing Fulvic Bio without harm. Avoid foliar application to plants in flower so as not to give any discouragement to foraging bees.

### Application to artificial growing media.

(eg. Peat and non-peat based composts, grow bags etc)

Mix Fulvic Bio into the medium at a rate of 50 mls per cubic metre. The product may be diluted in a convenient volume of water to facilitate easier mixing.

## General information

### Compatibility

The effectiveness of *Fulvic Bio* cannot be guaranteed if it is used in combination with other products.

### Technical service

Please contact Solufeed at the address below for assistance.

### Packaging

500 ml bottles

## Precautions

Health and safety information may be found on the product label which should be read fully before use.

## Important

The information in this document has been prepared carefully and is provided in good faith. The application, use and processing of any material together with regulatory compliance is the absolute responsibility of the Buyer. All technical information or other advice provided by the Seller in any form is given without warranty to the full extent provided by law.

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