

# FULVIC ACID – 80%


(VEGETABLE ORIGIN – BIOLOGICALLY EXTRACTED)

**AN EXCELLENT ORGANIC FERTILIZER + CHELATOR**

## SPECIFICATION OF POTASSIUM FUVLATE

Product Name : POTASSIUM FUVLATE

Common Name : FULVIC ACID

Property	Content
Appearance	Dark Brown Powder 
Odour	Coffee Like
pH	Neutral
Fulvic Acid	80 - 85%
Nitrogen (N)	3 - 5%
Phosphorous (P as P2O5)	0.5 – 1%
Potassium (K as K2O)	6% - 8%
Amino Acid	2 – 3%
Solubility	>99%

### APPLICATION

**Foliar Application:** 1 gram per 1 Litre of Water. 100 gram per Acre.

**Soil Application** : 500 gram – 1000 gram per Acre through Drip or Drenching.

**ALSO, APPLY FULVIC ACID ALONGWITH MICRONUTRIENT FERTILIZER OR NPK FERTILIZER TO INCREASE THEIR UPTAKE BY PLANT AS FULVIC WILL CHELATE NUTRIENTS FOR PLANTS**

# *Fulvic Acid's*

## Surprising Qualities & Capabilities

### **Fulvic Acid Is One Of Nature's Most Powerful Life Restorers**

The Fulvic Acid Group, natural organic electrolytes, can balance, activate and energize the biological properties with whatever organic material it comes into contact. An electrolyte is soluble in water or any other similar medium able to conduct electrical current. The power of an electrolyte has been shown to have the ability to restore life in repeated tests on animal cells (giant amoebae) in what astonished researchers termed "a beautiful demonstration". When the electrolyte potential was removed during the test, the cell ruptured, disintegrated into the surrounding fluid and died. When electrical potential was reintroduced, the cell reconstructed and returned to healthy activity! It was also determined from these same studies that comparable results could be expected of the progressive weakness experienced by humans that results from unchecked hemorrhage, overwhelming emotional stress, uncontrolled infections, unbalanced diet, prolonged loss of sleep and surgical shock. These studies prove that the health of plants, animals and humans is determined by proper electrical potential.

The Fulvic Acid Group's individual acids all have similar physical and chemical characteristics. Fulvic Acids are derived from humus. Humus contains a large number of natural phyto-chemicals, bio-chemicals, supercharged antioxidants, nutrients, free-radical scavengers, super oxide dismutases, enzymes, hormones, amino acids, antibiotics, fungicides and antivirals.

Fulvic Acid has proved to be one of nature's most powerful organic electrolytes and it serves to balance cell life. When powerful organic electrolytes are introduced, the individual cell is restored to its normal chemical balance and its electrical potential where otherwise disintegration and death would normally occur within plant and animal cells. Because Fulvic Acid has the outstanding ability to accomplish this objective in multiple ways, it is required for health in any organic system or body. Nature's way to process and refine minerals, "chelate" metallic minerals and turn them into readily absorbable bio-available forms is called the Fulvic Acid Phenomenon.

### **Fulvic Acid Promotes Electro-Chemical Balance Whether Donor Or Receptor**

Electro-chemical balance is required for health in any organic system or body. Fulvic Acid is available at times as an electron donor and at other times as an electron acceptor, based on the cell's requirements for balance. One of the reactions that occur is always an oxidation reaction in which the chemical species loses electrons as a donor. The other reaction is a reduction in which the active species gains electrons as an acceptor. A recent study of the binding of a donor molecule to Fulvic Acid in solution revealed direct evidence for donor-acceptor charge-transfer mechanisms. Trace minerals in the Fulvic Acid electrolyte could also be beneficial in this process serving as electrodes.

## **Fulvic Acid Dissolves Minerals & Trace Elements**

Fulvic Acid actively dissolves minerals and metals when in solution with water. Metallic minerals simply dissolve into the fulvic structure and become bio-chemically reactive and-mobile.

## **Fulvic Acid Forms Complex Molecular Structures**

The Fulvic Acid actually transforms these minerals and metals into elaborate Fulvic Acid complex molecular structures that have vastly different characteristics from their previous metallic mineral form. Fulvic Acid also has the unique ability to weather and dissolve silica into an assimilable form when found in the soil with which it comes into contact.

## **Fulvic Acid Enhances Availability**

Fulvic Acid enhances the availability of nutrients and makes them more readily absorbable. It also allows minerals to regenerate and prolongs the residence time of essential nutrients. It prepares nutrients to be utilized by cells. It allows nutrients to inter-react with one another and breaks them down into the simplest ionic forms chelated by-the-fulvic-acid-electrolyte.

## **Fulvic Acid Catalyzes Enzyme Reactions**

Fulvic Acid can also increase enzyme activity and act as both a donor or as an acceptor to supply electro-chemical balance to a cell. It increases the activity of several enzymes such as transaminase, invertase and alkaline phosphates.

## **Fulvic Acid Increases Assimilation**

Fulvic Acid metal organic complexes are relatively heavy and because of this, they have small molecular size and can easily penetrate cells. Fulvic Acid complexes and chelates are readily able to pass through semi-permeable membranes such as cell walls. Yet it is important to note that Fulvic Acid not only has the ability to transport nutrients through cell walls, it can also sensitize cell membranes and various other physiological functions.

## **Fulvic Acid Stimulates Metabolism**

Fulvic Acid appears to cause the genetic mechanism of plants to function at a higher level. Any means by which plant cells are exposed to Fulvic Acid can improve growth. Oxygen is absorbed more intensely in the presence of Fulvic Acids. Fulvic Acid helps to penetrate roots and then quickly transports to the shoots of plants. Fulvic Acid relieves oxygen deficiency and increases the vital activity of cells. Fulvic Acids' change the pattern of the metabolism of carbohydrates results in an accumulation of soluble sugars. These soluble sugars increase the osmotic pressure inside the cell wall and enable plants to withstand wilting. Fulvic Acid enhances growth and may stimulate the immune system.

## **Fulvic Acid Detoxifies Pollutants**

An important quality of humic substances is related to their sorptive interaction with environmental chemicals either before or after they reach concentrations toxic to living organisms. The toxic herbicide known as Paraquat is rapidly detoxified by humic substances (Fulvic Acid). Fulvic Acids function specially on the demise of organic compounds when applied to soil as pesticides. It has been established that Fulvic Acid is vital to aid the formation of new species of metal ions that bind with organic pollutants such as pesticides and herbicides to catalyze the breakdown of toxic pollutants. Fulvic Acids restore electrical balance to damaged cells and can eliminate food poisoning within minutes. Radioactive substances react rapidly with Fulvic Acid to reach quickly an equilibrium. All radioactive elements are capable of reacting with Fulvic Acid and thus they will form organo-metalic complex molecules of differing adsorptive stability and solubility.

They have the ability to bio-react with one another and also to inter-react with cells to synthesize or even transmute new mineral compounds. Fulvic Acids act as specific cell sensitizing agents and enhance the cell membrane's permeability. They stimulate and balance cells to create optimum growth and replication conditions.

## **Fulvic Acid Increases Metabolism Of Proteins**

Fulvic Acid intensifies the metabolism of proteins, RNA and DNA. Fulvic Acid definitely increases DNA content in cells and increases and enhances the rate of RNA synthesis.

## **Fulvic Acid Catalyzes Vitamins Within The Cell**

Fulvic Acid has the ability to introduce vitamins into its structure where they are presented to the cell in combination with complex mineral structures. In this perfect natural condition they can be catalyzed and utilized by the cell. In the absence of adequate trace minerals all vitamins are unable to perform their proper functions.

## **Fulvic Acid Greatly Enhances Bioavailability Of Important Trace Minerals**

Our bodies do not easily assimilate many mineral supplements. Scientists believe that mineral deficiency subjects our animals as well as us to more diseases, aging, sickness and destruction of our physical well being than any other personal health factor. A U. S. Senate study showed that 99% of Americans are deficient in minerals and trace elements.

## **Fulvic Acid Chelates Monovalent & Divalent Elements To Which It Is Exposed**

Fulvic Acid has the power to form stable water-soluble complex structures with monovalent, divalent, trivalent, and polyvalent metal ions. It can aid the actual movement of metal ions that are normally difficult to mobilize or transport. Fulvic Acids are excellent natural chelators and cation exchangers and are vitally important in the nutrition of cells.

# *Fulvic Acid's* **FACTS**

Fulvic acids (NOT to be confused with the vitamin Folic Acid) are "the missing link" of nutrition science. Scientists from around the world are beginning to recognize the extraordinary potential of Fulvic Acid. They have referred to it as the elixir of life and theorize that without it, life would not exist.

Nature's most powerful antioxidant! Fulvic acid renders free radicals harmless by reacting with both negatively and positively charged unpaired electrons. It can either alter them into new useable compounds, or eliminate them as waste. It scavenges heavy metals and detoxifies pollutants.

**Fulvic acid is so powerful that a single molecule can transport more than 60 times it's own weight in minerals** and other nutrients into the cells. Having a dramatic impact on health, fulvic acid is the element that makes nutrients absorbable. It maintains cellular integrity and aids in the cellular detoxification process.

Fulvic Acids are created in extremely small amounts by millions of microbes working on decaying plant matter. The most potent and active fulvic acids are found in trace amounts in certain humic deposits from prehistoric plant life.

Fulvic acids are in a natural form to interact with and be absorbed by, living cells. Maintaining the environment by dissolving mineral complexes and elements, fulvic acid causes cells to bio-react electrically with one another. This produces catalytic reactions, electron transfer and transmutations into new minerals.

By adding fulvic acid to our soil we create an environment producing healthier plants with greater crop yields. The overuse of pesticides, chemical fertilizers and erosion prohibit microbial activity and the formation of fulvic acids within a medium. Our farmlands are in "poor health" from these agricultural practices.

The total metabolism of the body is the sum of the metabolic operations carried on in each individual. Cells, when properly nourished, are capable of producing many of their own resources necessary for metabolic processes. Each cell burns its own energy, maintains itself, manufactures its own enzymes, creates its own proteins and duplicates itself. Fulvic Acids are the key ingredient for making this possible.

In the near future most nutritional supplements for humans, animals and agriculture will contain some form of fulvic acid. Scientists have theorized about the "missing link" of nutrition ... they now believe it is **FULVIC ACIDS.**