

# **Fulvic – Nature’s Miracle Molecule**

## **Introduction**

Fulvic (not to be confused with folic acid) is rapidly being recognized as one of the key elements in many outstanding health and scientific breakthroughs of the 21st century. Although it’s healing benefits have been known and used for centuries in some parts of the world, modern scientists and doctors are just starting to recognize it’s extraordinary potential. Fulvic has always occurred naturally in organic plants and soils, but is only recently being used by those who understand it’s amazing benefits. Fulvic can balance and energize the cell life and biological properties it comes into contact with. If the individual cell is restored to its normal chemical balance and electrical potential, we have given cells life where death and disintegration would normally occur.

Researchers have known for years that at least 90 nutrients are needed to maintain optimum health. These nutrients include a minimum of 59 minerals, 16 vitamins, 12 amino acids and 3 essential fatty acids. But eating good tasting food and swallowing a lot of vitamin pills does not guarantee absorption or utilization of these vital nutrients. When the body does not absorb nutrients from food or supplements, the door is open for disease.

Scientists have found that Fulvic is the element that makes nutrients absorbable, resulting in a dramatic impact on all kinds of diseases and health problems that afflict us today. They call it the elixir of life and theorize that without it nothing would live.

## **Fulvic – The Miracle Molecule**

“If I had to chose between the liquid mineral and electricity, electricity would have to go.”

Dr. Clyde Sandgrin

Fulvic is called Nature’s Miracle Molecule because it does so many things ... it wears so many hats. Benefit claims are a little short of astonishing. For internal use they are:

- Increased energy
- It’s a ferocious antioxidant and free radical scavenger
- Chelates heavy metals and body toxins, removing them from the system
- Makes cell walls more permeable and transports nutrients into the cells

- Extends the time nutrients remain active – increasing the availability of essential nutrients
- Increases metabolism of proteins, contributing to DNA and RNA synthesis
- It's a powerful natural electrolyte
- Restores electrochemical balance
- Increases activity of enzyme systems
- Helps rebuild and stimulate the immune system
- Increases bioavailability of nutrients
- Dissolves and complexes minerals in the soil making them bio-available
- Prepares nutrients to inter-react with each other
- Increases absorption of oxygen and decreases acidity
- It has antibiotic properties

Reported beneficial claims for external use:

- Treating open wounds, cuts and abrasions
- Healing burns with minimum pain or scarring
- Killing pathogens responsible for athletes foot
- Acting as a wide spectrum anti-microbial and fungicide
- Treating rashes, skin irritations, insect and spider bites
- Neutralizing poison ivy and poison oak

The agricultural benefits of Fulvic have enormous potential to heal soils of the world and neutralize radioactive and toxic wastes. It also decreases the need for antibiotic use in feed lot animals and birds, increasing healthy growth.

## **Fulvic Origin and Overview**

### **In the Beginning**

In the beginning the earth was blessed with optimum organic growing conditions. The rich humus soil was teeming with millions of beneficial microbes that created Fulvic. The vegetation was lush and abundant, which is evidenced by ancient remains that geologists call humic deposits.

Many people don't realize that plants cannot uptake undissolved minerals directly from the soil. The molecules are too large to use. In Mother Nature's original plan, the beneficial microbes working at the roots of plants and trees create what we call Fulvic to dissolve the large mineral molecules. The Fulvic then assists the plants in up-taking this dissolved mineral rich substance. With the help of Fulvic, minerals in the soil and a little sunshine, these healthy plants are able to manufacture vitamins. The excess Fulvic that wasn't used by the plants washed down into the drinking water, giving an extra dose of Fulvic, dissolved minerals and vitamins to all who enjoyed it. A healthy life was sustained for these ancient civilizations because their water was rich in Fulvic and dissolved complexed minerals, and their fruits and vegetables were nutrient rich.

And all was well with Mother Nature's plan, until Man discovered that NPK would force the quantity and size of food crops. Unfortunately, like pesticides and chemicals, NPK also kills the microbes in the soil that manufacture Fulvic. The downside of throwing off the natural balance of minerals was ignored, and raising healthy plants took a backseat to raising big, beautiful "looking" and profitable crops. Without the protection and nourishment of Fulvic, diseases attack the plants ... which necessitates the use of chemical pesticides that further destroy any beneficial microbes that may have been lingering.

Because of this revolving cycle of chemical use in today's farming, most diets don't provide the amount of Fulvic needed to sustain health. Without Fulvic, plants, animals nor people are able to assimilate minerals, vitamins or other nutrients, leading to the epidemic of disease that modern man experiences.

## **The Benefits of Fulvic in Today's World**

### **Complexed Fulvic Minerals are not Toxic Heavy Metals**

Cells have the ability to accept or reject minerals, including aluminum, lead, arsenic, mercury, etc., at their discretion when presented as organic, dissolved and complexed substances. When metals, minerals and trace elements become complexed into Fulvic, they take on an entirely new property of availability, unlike their original form. Many organic minerals are not used to "nourish" cells, but instead, are needed to act as electrodes in the fulvic electrolyte solution. In that capacity they are most essential for bio-reactions, electron transfer, catalytic reactions and transmutations. Without them you may be missing many of the bio-reactions they enable. Vital-Earth's **Fulvic Mineral Complex** contains 68 to 74 complexed minerals in trace amounts, and should not be confused with metallic minerals. **Fulvic Mineral Complex** has a balanced alkaline pH ranging from 7.0 up to 8.9.

Fulvic has the ability to complex and remove toxic metals and other toxins from the body. Fulvic mineral solutions have been ingested by people since the beginning of mankind, yet have never been shown to cause toxic mineral build up in humans or animals because they are organic.

It is when Fulvic is *not* present that one should seriously worry about toxic buildup from any source. The lack of Fulvic in our lives could account for the health problems that are causing concern today in our “Fulvic starved” society.

### **Outstanding Chelator**

Because of Fulvic’s low molecular weight, it has the ability to readily dissolve and bond minerals and nutritional elements into its molecular structure. Nutrients that have been chelated by Fulvic are in an ideal natural form to interact with and be absorbed by living cells. Fulvic is so powerful that one Fulvic molecule is capable of carrying 60 or more minerals and trace elements into the cells.

### **Supercharged Electrolyte, Ferocious Free Radical Scavenger and Antioxidant**

It has been said that cellular electrical energy is the life force of the body. Cells disintegrate and die when electrical energy is reduced. It is believed that electrical and chemical balances within the cell can be created and controlled by electrolytes ... the body’s mini battery chargers.

Scientists tell us Fulvic is one of the most powerful natural electrolytes known to man. The supercharged Fulvic molecules balance cellular life ... restoring the electrical potential that was once normal to the cell by charging, regenerating, regulating and delivering their living energies to the living cells.

Fulvic maintains the ideal environment for dissolved mineral complexes, elements and cells to bio-react electrically with one another causing electron transfer, catalytic reactions and transmutations into new minerals. It helps with human enzyme production, hormone structures, and is necessary for the utilization of vitamins. It has been found necessary for metabolic processes.

It is also one of the most powerful natural antioxidants and free radical scavengers known. It has the unique ability to react with both negatively and positively charged unpaired electrons and render free radicals harmless. It can either alter them into new useable compounds or eliminate them as waste. Fulvic can similarly scavenge heavy metals and detoxify pollutants.

### **Fulvic Mineral Complexes are Better than True Colloidal Minerals**

True colloidal minerals by themselves are not readily useable by cells. It is the Fulvic *in conjunction* with minerals that makes them effective. Many colloidal minerals on the market contain a small amount of Fulvic, which is responsible for any results they may produce. Vital-Earth's **Fulvic Mineral Complex** is 100% Fulvic in solution that contains 68 to 74 naturally occurring, plant derived minerals and trace elements.

### **Amino Acids**

When properly nourished, individual cells are capable of producing many of their own amino acids, enzymes and other factors necessary for all metabolic processes. Each cell burns its own energy, maintains itself, manufactures its own enzymes, creates its own proteins and duplicates itself. It is essential to understand that the total metabolism of the body is the sum of the metabolic operations carried on in each individual cell. Humans can produce all but eight amino acids within their cells. **Fulvic Mineral Complex** promotes the natural production of amino acids within the body.

### **Growth and Maintenance Nutrients**

Scientists have identified at least 90 growth and maintenance nutrients which must be continuously supplied to sustain life. If we fail to supply adequate Fulvic nutrients, the cell will experience a breakdown. When the breakdown is substantial we have the onset of disease.

## **Modern Farming Destroys Fulvic**

### **Gone are the Minerals**

In the beginning, our naturally fertile soils contained adequate amounts of humic and Fulvic produced by microbes within the soil. They delivered nutrients and minerals to the plants.

Largely, modern agriculture has one goal – to produce an abundance of attractive, saleable products. Since the farmer is paid by the bushel, yield is more important than nutritional content. To control the diseases that are a by-product of sick soil and forced yield, excessive amounts of nitrate fertilizers are applied to the soil ... a practice that stunts and destroys the vital microorganisms that are essential in creating the Fulvic that converts minerals to plant nutrients.

### **Sick Soils = Sick Plants = Sick People**

When microbes are depleted from the soils, inorganic minerals cannot be converted into the organic minerals needed by plants. Excessive use of nitrate

fertilizer inhibits the formation of normal plant proteins and stimulates an overabundance of unused amino acids that attracts insects. Since pests were created to eat diseased plants, sicker and sicker farm crops increase the food supplies for insects, leading to increased infestation. The farmer's reaction is to apply more pesticides and fungicides to save his infested crop. This in turn inhibits or destroys even more vital microorganisms that are essential in converting minerals to plant nutrients.

As a nation of consumers eating this inadequate food, we are creating widespread mineral and vitamin deficiencies. Your body has little chance of maintaining good health year after year if it is consistently deprived of the tools it needs for proper function and to keep itself well.

Although it seems that many diseases appear suddenly, the sad truth is they are the result of years of deficiency that could have easily been reversed through proper nutrition and supplying adequate Fulvic. Disease starts at a cellular level long before any serious symptoms appear.

### **The Vitamin Connection**

Increased dosages of vitamins and minerals to treat many human and animal ailments have been advocated by leading researchers for decades. However, it is crucial to remember that vitamins cannot complete their function in the cell's metabolism without the presence of the appropriate and specific mineral co-factors and Fulvic. Therefore it is crucial that all the vitamins, all the minerals and Fulvic are provided in a base line supplement in order to receive consistent, significant results. Additional individual supplements can be added as needed.

### **Cell Wall Permeability and Absorption**

One of the strongest advantages of Vital-Earth's **Fulvic Mineral Complex** is its liquid form. Absorption of a liquid greatly exceeds traditional tablet or capsule supplements, because absorption starts in the mouth. Sensors in the mouth determine what digestive enzymes are needed to process the food or liquid being consumed. By the time that substance travels down the esophagus and reaches the stomach, digestion, absorption and utilization are well underway. As with any nutrient or supplement, the only way your body can benefit is if it is absorbed. Fulvic enhances this process with all foods, herbs, and supplements.

Fulvic makes elemental minerals and vitamins more absorbable by complexing them (refines, purifies, combines and re-refines) into organic, ionic forms that are easily transported into and through membranes and cell walls. Once the nutrients meld into the Fulvic complex, they become bioactive and bio-available.

## **Free Radicals**

Free-radicals are highly reactive molecules or fragments of molecules that contain one or more unpaired electrons. They circulate through the body causing great damage as they bond to and injure tissue. In addition to destroying tissue, they magnify the probability that injured cells will become susceptible to a great number of infections and diseases ... or mutate and cause cancer.

If a healthy body is your goal, then you must take action to protect yourself against free-radical attacks. Dramatic increases of free-radicals in our air, food and water in recent years have put a tremendous strain on the body's natural defense mechanisms. Our first line of defense against free-radicals is a generous supply of free-radical scavengers, called antioxidants. Fulvic is the most powerful and versatile anti oxidant known to science.

According to Chen Y Sesei and M Schnitzer, Fulvic has the ability to dramatically reduce the oxidative effects of free-radicals. This means Fulvic could potentially help your body ward off disorders such as cancer, premature aging, wrinkling of the skin and arthritis ... all of which are thought to be hastened by oxidation.

There are three identified categories of free-radicals, and numerous identified free-radical scavengers. Each one of the free-radical scavengers eradicate a different category of free-radicals. Without Fulvic, its very complicated to get the correct free radical scavenger in the correct amount.

### **Fulvic- the Super Antioxidant**

For an antioxidant to bind to a free-radical, the antioxidant molecule must have unpaired electrons of equal and opposite charge to that of the unpaired electrons of the free radical.

The beauty of Fulvic is that it is a bi-directional super antioxidant that carries both a negative and a positive charge. It can act as an acceptor or a donor in the creation of electrochemical balance. If it encounters free-radicals with unpaired positive electrons, it supplies an equal and opposite negative charge to neutralize the bad effects of the free radicals. Likewise, if the free-radicals carry a negative charge, the Fulvic molecule can supply positive unpaired electrons to nullify that charge. Fulvic is such a powerful, natural electrolyte that it can eradicate any form of free radical.

### **In Summary**

Fulvic consists of an immense arsenal and array of powerful phytochemicals, biochemicals, supercharged antioxidants, free-radical scavengers, super oxide dismutases, nutrients, enzymes, hormones, amino acids, antibiotics, antivirals and antifungals.

Fulvic is a bio-available chelated molecule that can also chelate. As a refiner and transporter of organic minerals and other cell nutrients, it has the ability to turn bad guys into good guys by chelating and humanizing free-radicals. Depending on the chemical makeup of the free-radical, they can be incorporated into and become a part of life sustaining bio-available nutrients. In the event that the chemical makeup of the free radical is of no particular benefit, it is chelated, mobilized and carried out of the body as a waste product.

Many of the substances that make up humic matter have yet to be discovered and catalogued among the known and documented organic chemicals. We are beginning to realize that what we know about Fulvic is just the tip of the iceberg.

**Now you can see why Fulvic produces such amazing health benefits for the consumers taking it.**

For more information go to:

**[www.biologicaltherapeutics.com](http://www.biologicaltherapeutics.com)**

**or email me and I can ship it out to you.**

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