

## ***Fulvic Acid Extract***

### ***Fulvic Acid Concentrate***

***Living cells require a continuous charge of bioelectrical energy that can only be derived from minerals and trace elements of plant origin. Our Fulvic Minerals are Nature's Perfect Mineral Blend! Fulvic Minerals are chelated in nature by plants and Fulvic and Humic acids in the soil that convert them to bio-available mineral complexes. These newly formed Fulvic Minerals act as a powerful delivery system. Certificate of Analysis -- lists all ingredients revealed by independent laboratory testing. Mineral***

**If you are currently supplementing with minerals labeled ionic or colloidal, the discovery and understanding of fulvic acid should excite you. and Trace Mineral Profile - 74 mineral analytes. Amino Acid Profile -- lists 18 amino acids. Vitamin Profile -- list of naturally occurring vitamins found by independent laboratories. Fulvic minerals are immortal.**

**Directions: Only use 4 drops in a 4 oz glass of water in the morning.**

Nature has provided us with nutrient that we need to live a long, healthy, and active life. Unfortunately, we're no longer able to enjoy all of earth's goodness because of the way we process our already fragile foods to death. It doesn't help that our soils have been ravaged and that the animals we eat are regularly given steroids to artificially stimulate their growth.

Plants, the Soil, and Your Health You may wonder why we can't receive the same nutritional value from the plants that we eat as we can from plant-derived minerals in a liquid form. The primary reason is that the soils that are used to grow our fruits and vegetables today have been depleted of their natural resources. Soil no longer had the abundant vitamins, minerals and other nutrients that it once did.

Today farmers are pressed for time and force their fields to produce crops that yield high quantities of vegetables and fruits - with very little regard to the nutritional content of the foods that are grown. So that growth can be hurried along, we've begun to "supplement" our farmlands with high amounts of nitrogen, phosphorus, and potassium (N-P-K), but very little else.

It is a widely known fact that when high amounts of nitrates are present, plant protein formation is increased. Such an excess of nitrates can also cause an overabundance of amino acids. If the amino acids aren't used by the plants, that can attract insects. Of course some organic farms are a bit better, but the quality of nutrients still pale in comparison to a good liquid, plant -derived mineral product.

A second reason that our plants fail to nourish us properly is because the soil has been depleted of beneficial microbes. These microbes are necessary for plants to convert inorganic substances to organic. Without this conversion the plants become deficient in minerals. This means that those who eat plants can also become deficient.

Doctors have known for years that everyone needs at least 90 nutrients to maintain their health. These nutrients include a minimum of 70 minerals, 18 amino acids, and three essential fatty acids. To obtain these nutrients we are admonished to eat at least 57 different sources of food each week. For most people this admonition is much less than practical and sometimes completely impossible. The monetary budget required to obtain

such a diverse list of foods would be enormous. Even discounting the monetary aspect, almost no one has a large enough selection of foods at their disposal to satisfy these requirements.

The only alternative that we have is to supplement our diets with good, high - quality nutritive substances such as antioxidants, vitamins, and plant-derived minerals.

### The role of Fulvic Acid and Plant Nutrition

By definition, fulvic acid is "a water - soluble, natural organic substance of low molecular weight which is derived from humus, often found in surface water." --Water Quality Association.

Sources of true, plant -derived minerals are called humate deposits. These deposits, if they contain water-soluble, bioavailable elements, will also contain high amounts of humic acids. Fulvic acid is one of several subclasses of humic acids.

Humic acids are composed of a complex mixture of partially decomposed organic materials. These acids are endowed with the ability to chelate positively charged ions, such as elemental minerals, that are absorbed by plants. This natural chelation allows plants to store both vitamins and minerals and helps to increase their overall bioavailability.

**Fulvic Acid and Organic Transmutation** The absorption factor of ionic minerals greatly exceeds traditional tablet supplements this is one of their strongest advantages. However, those who take plant-derived colloidal minerals are often concerned by the fact that, when the manufacturers list the contents of the supplement, the names of heavy metals appear on the label. While this alarms many people, it shouldn't. The fact is that the true organic, plant-derived minerals do not contain heavy metals. Organic, plant-derived minerals are able to be safely used by your body because of the fact that nature has acted upon them and transformed them into organic material rather than allowing them to remain in their elemental form. This is called organic transmutation.

A driving force behind this miraculous transformation is fulvic acid. The reason that labels list "heavy metals" is that even once elemental minerals are transformed and stored within plants, they retain their original chemical names. Again, once an elemental mineral is reacted on by fulvic acid and photosynthesis, it is changed from inorganic to organic. This process is often called transmutation. As we read in "Biological Transmutations", fulvic acids can actually transmute magnesium and vegetal silica into a form of calcium that can be used by humans.

Fulvic acid is present in every true plant - derived organic mineral. The same cannot be said for elemental minerals, which are derived from rocks, shells, and certain clays. While elemental mineral supplements may claim to have a wide range of minerals, they cannot compare to the safety and availability of plant - derived substances. It should be noted the fulvic acid itself can contain as many as 60 different mineral compounds - this is above and beyond any other source of minerals with which it is joined.

As is discussed in "The Value of Organic, Plant Derived Minerals" when positively charged minerals are absorbed by plants, their bioelectrical polarity is changed to a negative charge. Whenever normally toxic minerals, such as iodine, are absorbed and transformed by plants, they become non-toxic. It may be the chelation factor that accounts for the ability of fulvic acid to neutralize the toxicity of heavy metals such as lead. The actual mechanism that fulvic acid uses to chelate minerals has yet to be ascertained. Although we know that neutralization happens, the mechanics of the process are still one of nature's secrets - a secret that we benefit from.

## Fulvic Acid Increases Bioavailability

Despite the important role that fulvic acid plays in the production of ionic minerals, it is also renowned for its ability to make vitamins and minerals absorbable to plants. It accomplishes this by complexing elemental minerals into organic forms that are easily transported into and through the roots and membranes of plants.

Plants absorb minerals and vitamins through root hairs - one ion at a time. Interaction between fulvic acid and the elemental mineral must take place before this absorption can happen.

Whenever minerals come into contact with fulvic acid, in a water medium, they are naturally dissolved into an ionic form. These minerals literally become part of the fulvic acid itself. Once the minerals meld into the fulvic acid complex, they become bioactive, bioavailable, and organic. This, when elemental minerals are transformed into an organic state, through a natural chemical process involving fulvic acid photosynthesis, they are safe to be used by both humans and animals.

The presence of fulvic acid also acts as an important protective agent whenever toxins are used to reduce the insect population that often besiege non organically grown crops. According to A. Szalay, fulvic acid has the ability to dramatically detoxify herbicides, pesticides, and other poisons that it interacts with - this includes many radioactive elements. This detoxification process may extend to animals and humans, since we are the end-users of these plants.

As previously stated, the soil from which our food is grown is severely depleted of vitamins and minerals. For plants to remain beneficial to us, it is imperative that they absorb the greatest possible amount of these substances. For this reason nature provided fulvic acid. The very presence of fulvic acid enables plants to maximize their uptake of vitamins and minerals.

This means that whenever you eat plants that have been in the presence of fulvic acid, your body can assimilate more of nature's building blocks with which to build and maintain your body. Another benefit of fulvic acid is that it actually potentiates the availability of essential nutrients. Potentiation is a term that describes how long ingredients can remain active.

## Nature's Protective Force

The more you study organic substances, such as fulvic acid, the more you will be impressed by nature.

The photochemical (plant chemicals) found in nature provide us with an astounding array of benefits and protection. For instance, soy provides us protection against certain cancers and acts as an adaptogen, antimutagen, and is full of active enzymes - it is for soy sprouts and not the processed bean. Fulvic acid also acts as a source of protection from environmentally induced oxidation.

Anyone interested in maintaining their health should note that free-radical damage (oxidation) has been implicated in over 60 disorders.

For years we've known that antioxidants are extremely beneficial in our fight against disease. As such, the scientific community has focused a major portion of their attention towards well-known antioxidant substances. This research has shed light on many extremely powerful free-radical fighting nutrients such as proanthocyanidins.

If a healthy body is your goal, then you must take action to protect against free-radical attacks. If you are taking colloidal minerals that contain fulvic acid, you're on the right path. Fulvic acid is a powerful antioxidant.

According to N. Senisi, Y. Chen and M. Schnitzel, fulvic acid had the ability to dramatically reduce the oxidative effects of free-radicals. This means that fulvic acid

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.

### Enzymes are Activated by Fulvic Acid

Whenever we eat, our body set into motion a complex series of actions designs to break down the foods that we've eaten. It then converts these digested foods into energy and building materials. The actions that take place on the foods that we ingest would not be possible if it were not for enzymes.

Without enzyme activation, food would simply rot in our stomach, elimination could not take place, thought would cease, and we would die. Enzymes are the "life-force" behind vitamins and minerals.

Obviously, anything that we can do to strengthen and protect these enzymes will further our hopes of maintaining a healthy and active lifestyle.

Since you have only a finite number of enzymes that are available to your body, supplementing them from outside sources (such as with raw fruits and vegetables, and enzymes supplements) is an absolute necessity (for more information on enzymes, see Issues #200 Enzymes and Your Health).

The good news is that the presence of fulvic acid actually increases the activity of several enzymes, including: transaminase, invertase, and alkaline phosphates.

Speaking of the potentiation of certain substances, fulvic acid may also have a positive effect of RNA and DNA. According to several researchers, the actual content of DNA in cells and the synthesis of RNA is enhanced by the presence of fulvic acid. Furthermore, if you supplement with traditional vitamins and minerals, their bioavailability may be enhanced by the addition of fulvic acid.

### Fulvic Acid and Organic tissues Growth

A modern day medical wonder is our ability to actually remove damaged tissues and bones for the human body and replace them with healthy bones and tissues.

Unfortunately, such transplantation is also very risky. Transplants of this type sometimes rejected.

To lower the incidence of rejection the most desirable donor tissues come from alternate sites of the same body. Unfortunately, this requires a separate surgery. Extra incisions mean more discomfort and a longer period of healing. The only other alternative is finding a donor from other sources. In one experiment, patients who required the replacement of transplantation of boner were treated at the University Hospital in Freiberg, Germany using fulvic acid as part of the therapy. Due to lack of human donor tissues, animal bone in the form of bovine calcium hydroxyapatite, an inorganic calcium compound was used. Two problems with such a procedure is that neither animal bones or inorganic calcium are readily absorbed by the human body. However, these problems were circumvented with the use of fulvic acid. When fulvic acid was inserted into the animal bone before replacement, the patients experienced dramatically improved regeneration of the transplanted cones.

The fulvic acid was so readily accepted and used by the patents that their bodies became highly osteoconductive. This means that new bone tissue began to form at an accelerated pace, thereby enhancing growth and healing. The inorganic calcium was also absorbed by the body due to the fact that the fulvic acid had transformed it into an organic compound. At the end of the experiment it was noted that, without the introduction of fulvic acid into the bones tissues, healing was not accelerated and regeneration did not take place.

## Cell Wall Permeability and Absorption

As with any product nutritive supplement, the only way that your body can benefit from it has been absorbed. The same is true of plants. Before a plant can properly process minerals, vitamins, and other nutrients, they must be incorporated into their structure. Fulvic acid actually enhances this absorption process. Prior to elemental minerals being converted and stored by a plant as plant tissue, fulvic acids begin to ionize them. Without fulvic acid, the substances that surround plants would not be able to be absorbed since the root hairs are single ion chambers that pull nutrients into them ion by ion.

However, when fulvic acid acts upon a substance its molecular size and weight is altered. This enables it to pass through cell membranes - including the semi permeable membranes that line your intestines.

When searching for organic, plant derived minerals, make certain that they contain fulvic acid. This will ensure that you get the highest quality available.

At last, from Mother Nature, her most precious and best kept secret!

Called the "missing link" to optimum health and nutrition by leading scientists throughout the world.

A health miracle so wonderful that medical studies show that it has the ability to significantly change your life for the better.

So safe, powerful and effective that medical doctors around the world have used it for thousands of years with amazing results.

Scientists have discovered a missing link in our food chain, and can see that rapidly increasing degenerative diseases worldwide may be directly related to absence of this substance in the human diet. Now experts know that more than vitamins and minerals are required for health, this third nutritional element is equally important. This breakthrough discovery is supported by little known and even secret medical research coming from top institutions round the world: medical schools, hospitals, clinics, and pharmaceutical labs.

Most of the world doesn't yet know about this medical discovery for some very good reasons.

" Until recent, they just didn't know it existed, couldn't detect it, and when they did identify this substance it was so complex that they couldn't understand it. It has been discovered to be the most complex substance in the world.

" Some of the medical institutions doing research are in the business of making enormous profits from developing synthetic patented drugs and they would prefer that you not know about inexpensive and natural solutions.

" Pharmaceutical companies have been rushing to patent synthetic versions of this natural substance, and dozens of patents have been approved. Yet Mother Nature has them all beat, they'll never be able to match her handiwork because this substance is far too complex!

" An estimated 80% of pharmaceutical drugs are tiny isolated synthetic fractions of this WHOLE and COMPLETE "missing link" from Mother Nature.

Human medical studies are exposed

While products we recommend are nutritional supplements, and can't make claims of treatment or prevention of disease, human clinical medical studies from around the world show amazing results with nearly every imaginable health condition when specialized pharmaceutical preparations are used. These medical studies have been uncovered, translated, researched, and now are unveiled for all the world to see. The studies show that proper internal and external medical use of specialized extracts can be extremely effective for many health concerns. The majority of studies show success rates as high as 90% or more. Please understand that we aren't making these claims for our nutritional supplements, we are just reporting that this valid medical research exists.

Diseases, cures, medical treatments, and testimonials presented here to elsewhere are mentioned for educational purposes only. Their purpose is to show parallels pointing to conditions of nutrient deficiency only.

We will be the first to tell you that the product we recommend is not a quick fix that will solve all of your problems. However, it will give your body some much needed tools, that through long term supplementation can have remarkable results.

Once all the research data is assembled, analyzed and understood, it points to a profound pattern of serious dietary deficiency worldwide.

Massive volumes of agricultural studies point to a pattern of serious deficiency of this substance in commercial crops and livestock. When the deficiency is alleviated, phenomenal results are achieved, including plant resistance to disease and insects, remarkable growth, and general health.

Similarly, human dietary supplementation and topical use with our product is bringing about life changing results for so many! The fact that we have thousands of customers that depend on this supplement, attests to the fact that something really marvelous is happening for many of them. Amazing healthy testimonials are pouring in from excited users everywhere.

Here is what you might notice and possibly even expect from a consistent long-term plan of dietary supplementation and topical use.

- ☐ Supercharges your immune system
- ☐ Promotes exceptional health of the thymus gland
- ☐ May help balance the thyroid system due to helping stabilize the immune system

- ☐Reduces cravings and helps with over-eating
- ☐Promote renewed energy and motivation
- ☐Feel blood sugar become more balanced
- ☐Over time restores your body to its optimum potential
- ☐Helps purge parasites, pathogens, and viruses from your body
- ☐Cleanses, neutralizes, and removes toxins
- ☐Acts as a powerful natural anti-inflammatory agent and antioxidant
- ☐Surrounds the body with a protective shield of defense
- ☐You may start feeling better almost immediately
- ☐You may see health concerns improve
- ☐Experience increased resistance to colds and flu
- ☐See aches and pains alleviated
- ☐Notice you become sick less often
- ☐You may feel relief from common and seasonal allergies
- ☐Gain improved resistance to infections and disease
- ☐Feel increased energy and endurance
- ☐Notice improved skin, nails, and more youthful complexion
- ☐Feel improved digestion and bowel function
- ☐See absolutely amazing healing of burns, cuts, and bruises
- ☐Experience increased circulation and oxygenation
- ☐Feel better and more alert mentally experience improved memory and brain function
- ☐Revitalize sexual functions and desire
- ☐Notice improvement of aging symptoms in the elderly
- ☐Notice that other supplements and medications work better when taken all at the same time
- ☐And an ongoing list of miracles too numerous to list

Hundred, even thousands of years of traditional medical research, and now even modern medical research, points directly to all of the above mentioned benefits.

So what exactly is this miraculous substance?

It is called fulvic acid (not to be confused with folic acid, and unrelated vitamin) Fulvic acid has been most appropriately referred to by some scientists as Mother Nature "milk". It not only nourishes, it transmits immunity and a shield of protection to all living things.

This "milk" has been devised by Mother Nature with the purpose of easily penetrating, nourishing, and reacting with every living cell, human, plant, animal, and even microscopic organisms, both good and bad selectively. Hundreds of advanced studies coming from scientists all around the world proclaim the benefits of Fulvic acid to "incredible", amazing", "miraculous", "magical" 'Phenomenal'!

If the creator felt is necessary to design something to solve multiple problems and if this creator wanted to show us the magic and miracle of pulling "rabbits from a hat" then an outstanding job was done with the design of fulvic acid!-Dr. William r. Jackson. PhD.

ONE OF MANY REASONS for these exclamations of excitement involve the effects Fulvic acid has when dissolved in water (or combined with body fluids). Fulvic acid is the smallest, most complex, most highly refined naturally occurring water-soluble substance on Earth. Tiny amounts remarkable transform the molecular structure of water, making it intensely more active and penetrable. Fulvic acid then assists water in its job of dissolving and transporting. It helps carry nutrients into the cell and waste products away from the cell, while also helping to neutralize toxins and invaders.

An example of the penetrability of Fulvic acid is its dramatic ability to EVEN PENETRATE deadly ultramicroscopic viruses.

Viruses are super small, and live deep inside the cells of plants, animals, and humans. Viruses even live inside other microscopic disease causing organisms, where they hitch-a-ride. Viruses encapsulate themselves within an impenetrable protein barrier where defense mechanisms cannot get to them. Fulvic acid helps dissolve their barriers, penetrating their strongholds, helping to neutralize viruses and their poisons. Fulvic acid also helps make the viruses vulnerable to a to attack by the immune system. Yet this is only the beginning. /fulvic acid also has the amazing ability to alert the immune system to the virus of disease invaders AND to regulate and give strength to the immune system!

Being the most HIGHLY REFINED NATURAL water soluble substance on Earth, fulvic acid is produced by the action of billions upon billions of microscopic plants, such as yeasts, algae, and fungi, all participating in the process of decomposition of once living matter. Every living organism on Earth, plant, animal, or man, experience a lifelong battle against viruses, infections, and disease. This intense battle for survival continues and even becomes more intense among soil-based microscopic plants during decomposition. Billions upon billions of defense mechanisms are produced, passed down, and recycled at every stage of life and through many stages of decomposition. As these substances are recycled, they continually become smaller and smaller and more refined (naturally). At very last they become water soluble, turning in to fulvic acid.

The plant defense mechanisms that ultimately become Fulvic acid are nearly immortal.

Because those defense mechanisms are so highly protective, they remain intact and do not break down during decomposition, nor do they get used up, they just become more highly refined and take on unusual properties. These protective substances are tiny fragments of DNA the building blocks of Fulvic acid. They have imparted health and longevity to every generation of living organism along their path of existence, and continue to pass it on.

When Fulvic acid is dissolved and combined with water, the water is transformed. Its molecular structure is changed and becomes more organized. Scientists have noticed that the water becomes energized and is able to transmit unusual biological "messages" to living organisms. Scientists even go as far as to describe this fulvic water phenomenon as "momory". A nursing mother's first breast milk (colostrums) carries an unknown substance scientists call transfer factor (not to be confused with commercial products of similar name), which carries "messages" to alert the immune system of her offspring to known disease invaders. Fulvic acid similarly carries with it a message of warning a "momory" of past battles with disease invaders. The battle scars are indelibly etched within the fulvic acid's refined molecular structure, which is made up of tiny fragments of DNA, even including remnants of DNA from the best invaders.

Fulvic acid appears to be "alive" with nature's own energy, and is intimately tied to the very spark of life. Fulvic acid is the world's most complex enzyme, and enzymes are described by scientists to be like living entities, having function and life like qualities. Yet fulvic acid is more than just an enzyme, it is in essence the "milk" from Mother Nature... meant for giving life energy, health, immunity, and renewal to the entire Earth, humans, plants, animals, and living organisms.

It also cleanses the entire surface of the Earth of pollution, pesticides, and toxins of all kinds. Thousands of scientific studies exist to prove it. Russian scientists used it to clean up the Chernobyl Nuclear disaster, including the soil, animals, and people exposed to the radiation. According to Dr. William R. Jackson, fulvic acid annihilates radiation! Truly amazing stuff!

Fulvic acid and related humic substances are seriously depleted from agricultural soils, crops, fruits, and vegetables, dairy products, meats, and foods of all kinds, COMPLETELY lacking in the modern human diet.

This "milk" from Mother Nature is likely the most important health and medical discovery ever in history. Nearly every plant, animal, and human disease can in some way be linked to the deficiency of this "milk"!

#### Pharmaceutical industry connections

The microscopic plants involved in the decomposition process resulting in Fulvic acid, are the very same microscopic plants used by the pharmaceutical industry to develop their new drugs. And estimated 80% or more of our modern-day pharmaceutical drugs, miracle cures, including antibiotics, are isolated and concentrated synthetic versions of the highly complex components found in fulvic acid.

Research shows that Fulvic acid naturally supplies a massive broad spectrum of powerful antibiotic and anti-viral medications equal or even superior to those known and produced by the pharmaceutical industry today. The Fulvic medications are not found in

high single component concentrations like the drugs, but contain tiny amounts including billions that have yet to be discovered or may never be discovered!

Little-known United States Government studies show that substances in this "milk" even rival or exceed the power of today's leading antibiotic produced by the drug companies. Yet unlike the drug company antibiotic, Mother Nature has designed things so that disease pathogens will never become resistant to her naturally occurring "milk". Recently, when European governments banned antibiotics in animal feed, THIS SUBSTANCE WAS FOUND TO WORK BETTER. Yet all that we tell you here is still the only the very tip of the iceberg.

Scientists have determined that it takes over 3 tons of living plant matter for mother nature to produce just one quart of her "milk" in the concentration that Fountain of Minerals provides! We have gone to great lengths to determine that fulvic Acid is producing the safest, most effective and most powerful "milk" from Mother Nature that currently exists in the industry.

Clinical studies show that negative side effects are virtually non-existent when using Fulvic acid at the recommended dosage (one ounce per day). No problems or negative side effects have very been reported by any of the scientific literature or by any of our customers. Extensive laboratory, pharmaceutical, and clinical testing have proven absolute SAFETY for human internal and external use.

#### Absorption and Fulvic acids' functionality

Fulvic acids are nature's bridge between "dead" mineral elements and living organic matter. True fulvic acids are extremely absorbable (approaching 100%). Fulvic acids not only contain rare-earth mineral elements in organic form, fulvic acids are enzymes and have a life-like functional quality. Being "organic" means the minerals are not "dead" mineral elements, but actually powerful bio-active life-like enzymes made up from very complex combinations of powerful phytochemicals. Research shows that these complex substances have amazing fountain-of-youth-like health properties. Historical medical use is ongoing and dates back hundreds and even thousands of years in remote regions of the Himalayas, China, and Russia, where people today still have the longest recorded life spans.

#### Fulvic acid, origin and overview

##### In the beginning

In the beginning the Earth was blessed with optimum organic growing conditions. The soil was a wealth of minerals, trace elements, and rich humus soil teeming with microbes. The Earth minerals had not yet leached and .. into the seas, and because of that, the soil was exceptionally fertile. The vegetation was very lush and abundant, as is evidenced by .. remains that we know were formed into coal and oil deposits.

##### Humic Deposits

But there have been found other most unusual remains that geologists call humic deposit. They also came from that ancient lush vegetation. These humic deposits never did turn in to oil or coal. There are quite rare and can be found in various areas of the world. Some of the deposits are exceedingly rich in a little-known substance called fulvic acid.

## Fulvic acid

Fulvic acid has been discovered to be one of the most important miracles of life itself. Fulvic acid is a part of the humic structure in rich composting soil, it is an acid created in angstrom., small amounts by the action of millions of beneficial microbes, working on decaying plant matter in a soil environment with adequate oxygen. It is of low molecular weight and is biologically very active. Because of its low molecular weight, it has the necessity and ability readily bond minerals and elements into its molecular structure causing them to dissolve become mobilized fulvic complexes. Fulvic acid usually carries 70 or more minerals and elements as part of its molecular complexes. These are then in ideal nature form to be absorbed by plant roots and interact with living cells. Plants readily absorb high amounts fulvic acid and maintain it in their structure. In fact it has been discovered that these fulvic acid complexes are absolutely essential for plants to be healthy, and the same is true of animals and man.

## Microbial action

We know that ancient plant life had ample fulvic acid in it. The exceedingly and unusual deposits that are located in various areas of the world. This fulvic acid is the deposits came from massive amounts of vegetation and its further decomposition by microbes. Fulvic acid is then a naturally occurring organic substance that comes entirely microbial action on decomposing plants, plants themselves, or ancient deposits of plant origin.

Fulvic acid is lacking in food crops.

It seems obvious that most of the plants and food crops of today would also contain adequate amounts or at least some of the miracle fulvic acid and its related minerals complexes, but do not. As human beings it would be reasonable to assume that we should be consuming fulvic acid complexes in the plants we eat, and consequently have fulvic acid in our systems. It is obvious that this is the way nature intended it. But this is not the case, nor has it been for a long time.

Our soils are sick from poor agricultural practices, pesticides, chemical fertilizers, erosion, and mineral depletion, as well as sterile conditions that prohibit microbial activity. Because of this our plants are sick, containing very little nutrition, especially minerals. For generations adequate fulvic acid that should have been contained in the plants we eat has been missing from our diets, yet it is essential for our cell metabolism. Scientists have found that nutritionally we need 90 different nutrients in our diets. Over 60 of these are minerals and trace elements. We are simply not getting them today from the plants we eat. Re-mineralization of soils would be of little benefit without microbes, the fulvic acid they produce, and return to better farming practices. Re-mineralization of our bodies without the fulvic acid that should be contained in the plants we eat had proven just as useless. People are sick with degenerative and deficiency related diseases now more than ever. With fulvic acid supplementation and return to proper diet and farming practices these situations have the potential to be remedied.

Fulvic acid in science and medicine.

Fulvic acid is still not well known or understood by most of the scientific or medical community. Fulvic acids have not been able to be synthesized by chemists, and are unable to be clearly defined because of their extremely complex nature. This perplexity

warrants little opportunity for science or medicine to exploit fulvic acid, or profit for new patents. Historically, traditional medical claims of encouraging health benefits have been simply remarkable. Many of these health assertions have also shown that fulvic acid is disease preventative in nature and may dramatically increase longevity. The health benefits seen to this point demonstrate the fulvic acid potentially poses a substantial threat to the future of pharmaceutical companies, medical doctors, and health professionals. Until recent, fulvic acid has been entirely overlooked or misunderstood.

## Benefits of Fulvic Acid

Some scientists have recently been studying fulvic acid, and have come up some amazing facts. They tell us that fulvic acid is the finest electrolyte known to man. It assists with human enzyme production, hormone structures, and is necessary for the utilization of vitamins. It has been found to be essential to living cells in carrying on metabolic processes. It 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 is also the most powerful anti-oxidant and free radical scavenger 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 acid can similarly scavenge heavy metals and detoxify pollutants. Fulvic acid helps to correct cell imbalances.

## Fulvic acid, a hidden treasure

A water solution can contain much higher mineral concentration when dissolved into fulvic acid than it could otherwise hold. It is most important to realize that fulvic acid is nature's own perfect vehicle for transport of minerals to living cells. This is because fulvic acid bonds with minerals and other molecules and transforms them.

Since fulvic acids are formed by decomposition of once living matter, fulvic acid contains hidden treasures of the past, in the perfect plant form, in nature's own recycling process. Mineral, metal, and trace element complexes with fulvic acid become an additional bonus to the miracle of fulvic acid. These fulvic complexes are hundreds of times smaller than living cells, and are amazingly absorbable by them. It is most important to know that fulvic acid has the unique ability to enhance, potentiate, and increase absorption of many other compounds such as vitamins, herbs, minerals, tinctures, and foods with which it is combined. Fulvic acid is one of nature's miracles of unparalleled proportion.

## Major attributes of Fulvic Acid

### World's finest electrolyte

Fulvic acid is an organic natural electrolyte that can balance and energize biological properties that come into contact with it. An electrolyte is a substance that is soluble in water or other appropriate medium that is capable of conducting electrical current.

The power of an electrolyte has been shown in repeated tests on animal cells (giant amoeba) to be able to restore life in what researchers termed "a beautiful demonstration" and astonishing". When the electrolyte potential was taken away, during

the test, the cell ruptured and disintegrated into the surrounding fluid causing death. Upon reintroducing electrical potential the cell reconstructed and became active and healthy.

It was also determined in studies, that similar results could be expected of the progressive weakness among humans that results from unchecked hemorrhage, overwhelming emotions, uncontrolled infections, unbalanced diet, prolonged loss of sleep, and surgical shock. These examples are all accompanied by a steady decrease in electrical potential that eventually is reduced to zero at death. These studies show convincingly that the physical well being of plants, animals, and humans is determined by proper electrical potential.

Fulvic acid has proven to be a powerful organic electrolyte, serving to balance cell life. If the individual cell is restored to its normal chemical balance and thereby, in turn, its electrical potential, we have given life where death and disintegration would normally occur within plant and animal cells.

Promotes electrochemical balance as both donor and receptor

fulvic acid is available at times as a donor and at other times as an acceptor, based on the cell's requirements for balance. One of the reactions that occurs 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. Trace mineral enzymes in the fulvic acid electrolyte may serve as electrodes.

Most powerful natural free-radical scavenger and antioxidant known

Free radicals of fulvic acid behave as electron donors or acceptors, depending upon the need for balance in the situation. Fulvic acid can in the same way take part in oxidation-reduction reactions with transition metals.

Complexes and dissolves minerals and trace elements

Enhances nutrients

Transports nutrients

Catalyzes enzyme reactions

Fulvic acid has close association with enzymes

Increases assimilation

Stimulates metabolism

Detoxifies pollutants

Dissolves silica

Synthesizes or transmutes minerals

Enhances cell division and elongation

Enhances the permeability of cell membranes

Increases metabolism of proteins

Catalyzes vitamins within the cell

Chelates all monovalent and divalent elements that it is exposed to