Fulvic acids are extremely complex, bioactive, low molecular weight, humic substances that are the final product of microbial decomposition of the natural, organic matter from the remains of prehistoric forests that flourished on Earth over 100 million years ago.

It is more correctly called fulvic acids (plural), because it is not a single consistent substance, but a highly varied and complex substance reflecting the diversity and complexity of the natural organic matter of its origin and creation. Through millions of years, ideal weathering conditions, and microbial decomposition, the natural organic matter from the ancient forests are transformed into a pure, protected, unpolluted humic deposit (Leonardite), of which there are only a few on the planet. Then, via a patented process we gently extract the smallest fulvic acid molecules by molecular weight rather than by simple water extraction or chemical extraction.

Fulvic acids are supercharged biochemical and phytochemical batteries storing the massive amounts of the suns energy captured by the plant during photosynthesis, and through many generations of microbial decomposition and digestion it is transformed into the most refined and complex natural substance on Earth.

Buckminster Fuller, one of the worlds renowned thinkers of the 20th century, explains energy accumulation of plants via photosynthesis. Visualize if you will, a log burning in a fireplace. That log is the result of many years of the suns energy, transformed by the tree through photosynthesis and stored in the wood, being released as fire. With a log of firewood, lump of coal, oil, natural gas, or gasoline, all of which are remnants of once living plants, it is easy to see and understand solar energy storage and release. With the humic substances, it is as easy to visualise because they don’t readily burn, but the energy is still there!

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

**FULVIC ACIDS MAJOR ATTRIBUTES**

- A supercharged electrolyte that energises cells
- A powerful antioxidant and free radical scavenger that restores electrochemical balance
- Chelates metallic minerals, enhancing absorption and assimilation
- Detoxifies pollutants and heavy metals
- Stimulates metabolism and promotes energy production in the body
- Stimulates the immune system and blood formation in the body

**A SUPERCHARGED ELECTROLYTE, ANTIOXIDANT AND FREE RADICAL SCAVENGER**

Fulvic acid is one of the most powerful natural electrolytes known to man. Electrolytes are important because they are what your cells use to maintain voltages across their cell membranes and to carry electrical impulses across themselves and to other cells. Cellular electrical energy could be called the life force of the body. When electrical energy is reduced in cells, they decay and die.

According to Dr. Robert Pekar, “Every biological process is also an electric process” and “health and sickness are related to the bio-electric currents in our body”. It is also interesting to note that cancer cells exhibit both lower electrical membrane potentials and lower electrical impedance than normal cells. Therefore a key component of cell repair and cancer treatment would be to reestablish a healthy electrical potential in the body's cells. Because it is a powerful, natural electrolyte that can act as an acceptor or as a donor in the creation of electrochemical balance, fulvic acids actively participate in oxidation-reduction reactions as electron donor or acceptor to effectively neutralise free radicals.
Fulvic acid is nature’s way of “chelating” metallic minerals and toxic organic pollutants. It either transforms them into new, bio-available compounds for use by the body or binds with them so they can be eliminated as waste. Fulvic acid complexes and chelates are able to readily pass through cell walls and even mitochondria, thereby enhancing nutrient absorption and assimilation. Fulvic acids also have the unique ability to potentiate enhances the bioavailability of vitamins, herbs, minerals, tinctures, and nutrients in foods and makes them more readily absorbable. Fulvic acid can often transport many times its weight in dissolved minerals and elements. It also acts as a cellular detoxifier, removing the debris from energy production that would otherwise cause the cells to clog up and die. Ingestion of fulvic acid is known to increase the ability of a cell to release toxic metals. Australia’s Ecotoxicology Program found that when fish swam in water with fulvic acid, their aluminum toxicity levels were up to six times lower than otherwise.

Studies on Fulvic Acids have shown that it:

- Is a natural medicine with a long history of human use for healing and performance-enhancement in diabetes and the urinary, immune, digestive, cardiac, and nervous systems.
- Amplifies the benefits of other herbs by enhancing their bioavailability in the body.
- Acts as a carrier molecule in the human system, helps in the transportation of nutrients into the deep tissues, and removes deep-seated toxins from the body.
- Helps in energy production, reduces the recovery period of injured muscles, bones, and nervous system, and is used in the treatment of fractures.
- Has the ability to overcome physical as well as mental stress.
- Actively takes part in the transportation of nutrients into deep tissues and helps to overcome tiredness, lethargy, and chronic fatigue.
- Helps in the absorption of iron into the body, making it bioavailable to bone marrow stem cells for blood formation.
- Enhances the oxygen-carrying capacity of the blood.
- Is a good detoxifier, helping in the elimination of toxins from the body, and its regular use stops the production of toxins in the body.
- Can be used effectively for the treatment of gastrointestinal distress, headache, weakness, anorexia, heart problems, dehydration, insomnia, dyspnea, moist cough, and pain.
- Acts as an anti-stress, anti-anxiety, anti-epileptic, and adaptogenic agent and has also been found to be useful in the treatment of the insomnia.
- Has analgesic and anti-inflammatory effects and is thus useful for different painful conditions of the body.
- Found to be very beneficial in rheumatoid arthritis, osteoarthritis, and gout as it nourishes the joints and reduces the inflammation and pain.
- May play a potential role in the treatment of Alzheimer’s and Parkinson’s diseases as it is an immunostimulant and has been found to be very effective in treating immune, nervous, and urinary disorders.
- Has anti-allergic activity against histamine releasers therefore it can also be used in the treatment of allergic conditions.
- Improves the ability to handle high altitudinal stresses and stimulates the immune system.
- Can be given as a supplement to people ascending to high-altitude areas so that it can act as a “health rejuvenator” and help to overcome high-altitude related problems.
Stimulates blood formation, energy production, and prevents cold exposure and hypoxia.\textsuperscript{19}

It also works effectively as a tonic for cardiac, gastric, and nervous systems, adaptogen and anti-stress agent.\textsuperscript{19}

Helps to dissolve kidney stones.\textsuperscript{20}

Has several nutraceutical properties with potential activity to protect cognitive impairment, providing potential treatments for Alzheimer’s disease.\textsuperscript{21}

May be useful for the treatment or prevention of allergic diseases.\textsuperscript{22}

Is highly active against oral bacteria and possesses strong anti-inflammatory activity.\textsuperscript{23}

Is safe at doses up to 40 mL twice daily for a week and that at this dosage, it acts as an anti-inflammatory agent.\textsuperscript{24}

Significantly improved some aspects of eczema.\textsuperscript{25}

It exhibits antioxidant, anti-inflammatory, adaptogenic, immunomodulatory, and anti-dyslipidemic (abnormal cholesterol levels) properties.\textsuperscript{26}

Enhances sperm production.\textsuperscript{26}

Is a ‘revitalizer’, enhancing physical performance and relieving fatigue with enhanced production of ATP.\textsuperscript{26}

Reverses the symptoms of Chronic Fatigue Syndrome.\textsuperscript{27}

**REPORTED BENEFICIAL CLAIMS FOR EXTERNAL USE:**

- Treating open wounds, cuts and abrasions
- Healing burns with minimum pain or scarring
- Eliminating discoloration due to skin bruises
- 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

**JUST THE PURES T AND MOST POTENT FULVIC**

Often our competitors add minerals, vitamins, amino acids, to compensate for the fact that the actual level of fulvic acids in their product is extremely low and any health benefits from their product are attributable to the other ingredients that are added rather than the fulvic itself.

Our philosophy is to offer the highest and purest quality fulvic acids we can offer.

Vitamins, minerals and amino acids can be purchased inexpensively and we do not feel the need to add these extra supplements and charge more.
REFERENCES


