

# About Fulvic Acids

**WHAT IS FULVIC ACID?** As originated in nature, or through very high quality processing and refining, fulvic acids are biologically active, low molecular weight (i.e., small molecules) derived from humates or fulvates. We use the plural term fulvic acids because fulvic acids are similar to snowflakes in that there seems to be an endless complexity of variations. We are learning that the chemistry of nature is much more complex and fascinating than we may have initially concluded.

Organic fulvic acids are created by micro-organisms in the soil, for the purpose of transporting minerals and nutrients from the soil into the plant.

From there, complex photosynthesis reactions produce the components of all the various parts of the plant. Muco-polysacharrides (complex carbohydrate sugars) flow throughout the plant for nourishment. Some are returned to the roots. There, the micro-organisms are nourished and produce fulvic acid to complex with minerals and nutrients to restart the cycle again.

**LIFE-GIVING NUTRIENTS IN, TOXINS OUT** - It is known that fulvic acid is readily admitted into living cells. This may be in part due to its low molecular weight, its electrical potential, its bio-transporting ability, and other factors just waiting to be discovered and understood. Scientists do know, however, that once inside the living cell, fulvic acid aids in the selective trading or supply of minerals and other nutrient factors inside the cell.

Can you begin to see why this is so important - first, it gets into the cells, and second, once in them, it may be the very catalyst that makes sure the cells get precisely the amount of minerals and other nutrients they need. In addition to carrying essential nutrients to the cell, it has been shown that fulvic acid can actually chelate toxins and reduce them to a harmless state.

Fulvic acid is effective at neutralizing a wide range of toxic materials - everything from heavy metals and radioactive waste to petro-chemicals. In fact, it has been shown to be so effective that tests are soon to be conducted on a new system designed to compost land fill refuse using fulvic and humic acids to safely render all toxins harmless.

**THE SCIENCE AND CHEMISTRY OF FULVIC ACID** - Fulvic acid is involved in complex biochemical reactions in living plants and animals, which directly influence the very metabolic processes at the cellular level. To the science of living cells, fulvic acids are vital in bringing substantial amounts of nutrients and minerals into water solution and delivering their living energies to the

living cells. In terms of benefits to all living organisms, organic fulvic acids: Greatly enhance the bio-availability of important trace minerals.

Regenerate and prolong the residence time of essential nutrients in the cells. Modify the damage of toxic compounds such as heavy metals and free radicals. Enhance the permeability of digestive, circulatory and cell membranes. Increase the metabolism of proteins contributing to RNA and DNA synthesis. Increase the activity of a multitude of enzymes.

**THE ELECTRIC POTENTIAL OF A CELL IS ITS "LIFE FORCE** - Electrical stimulation in most cells is the equivalent of biological activity. The cells disintegrate when their electrical potential is reduced to zero. When the electrical potential is reduced, progressive weakness and illness may occur. A person's electrical potential may be lowered by loss of blood or fluids, excessive emotional stress, accidents, lack of sleep, lingering infections, and an unbalanced diet. Scientists theorize that electrical and chemical balances at the cellular level can be created and controlled by electrolytes. Perhaps the most effective known electrolyte found in nature is the powerful fulvic acid organic electrolyte that restores, regenerates, regulates and balances cellular life. When the cell is restored to its normal chemical balance, and thereby achieves its bio-electrical potential, life flourishes where sickness, weakness, disintegration and death would have resulted. This is the fulvic acid phenomenon.

### Health Benefits

Humic and fulvic acids have been shown to:

- Chelate (cleanse) accumulated toxins (heavy metals, pesticides, and other free-radical poisons)
- Nourish the cells with a wide spectrum of nutrients
  - Kill viruses & foreign bacteria
  - Boost the immune system dramatically
  - Increase energy levels for up to nine hours
    - Work as a powerful electrolyte
    - Improve digestion and elimination
    - Cleanse and improve liver function

- Eliminate parasites and fungi
- Provide antioxidant protection
- Balance and regenerate cell life
  - Repair DNA and RNA

The Russians conducted 35 years of studies on Himalayan villages that farmed with humic compounds where the people routinely lived to 120 – 150 years old and did not know sickness as we do in modern western culture.

The combination of Humic and Fulvic acids as one of the greatest medical discoveries ever, adding that many scientists say that this can potential heal all diseases. While the American Medical Association prohibits us from making medical claims, if you purchase fulvic acid in China, the bottles say "this cures cancer." Chinese and Russian scientists have studied these acids for more than 35 years, discovering that it chelates (removes) all poisons from the body. This breakthrough, he said, will change homeopathy forever, because the fulvic acid is one of the smallest organic molecules known to man, therefore allowing it to be absorbed by every cell in the body.

The air bubbles in the humic compounds preserved the DNA of everything that lived on the earth for 2 or 3 million years, providing everything life needs to live on except vitamin C. Practically all organic chemistry exists in these fulvic and humic compounds making it a perfect food supplements.

Russian scientists discovered Himalayan villages where people routinely lived to 150 years old and never got sick. They were digging up humic shale found under glaciers which they used to fertilize their soil. The crops they ingested had high concentrations of humic and fulvic acids, along with their mineral rich glacial drinking water.