

Chlorine

Chlorine is present in all municipal water systems throughout the United States. Chlorine is needed keep bio-activity to a minimum within water lines leading to the home. This is good but the downside is some plants can get a toxic response to chlorine. Chlorine will also kill the bio-activity in the soil we as gardeners strive to maintain. Micro-organisms release amino acids and elements from the soil that plant foods can not deliver. **Vita Grow Water Conditioner reacts with the chlorine on contact through an oxidizing process which renders the active chlorine chemical inactive and safe for plant growth.**

pH

The pH of the water when it enters the home is largely affected by the dissolved elements in the water. For instance, calcium can make the water alkaline while sulfur can make is acidic. Other times chemicals placed into the water at the main to correct an adverse water condition will affect pH. **Vita Grow Water Conditioner will help to keep these elements and chemicals from reacting adversely to your plant food because it in itself is a buffer.**



All water sources can benefit from Vita Grow Water Conditioner. Natural compounds help keep plant foods soluble.



Vita Grow plant food is simply a superior product. It is a complete professional formula for hydroponics and soil. You consistently get great results! Easy to use!



Vita Grow Thunder Bloom Foliar Spray!

Enjoy lovely and colorful blooms. Natural elements enter the plant through the leaves. Easy to Use!



Vita Grow pH Up and pH Down offer great quality at a fair price. Strong and effective but gentle to plant roots. Dilute 3 parts water to 1 part concentrate for best results.



CWP Instruments calibration solutions for pH and EC equipment is laboratory tested to insure quality control in every batch made. You can pay more but you won't get more! Good Stuff!



Presents

Simple Tips for Successful Indoor Gardening Using Water Conditioner



VITA GROW
(888) 433-6867

After many years of making the finest plant products available anywhere in the world, Vita Grow set its sights on a new challenge; how to make the worst possible water source good enough to grow indoor plants.

Why do some household water systems fail to deliver good growth for growers while others can do no wrong? Bad water can be traced to poor growing in different ways. Some plants show elemental deficiencies; while others show toxicities. Some plants are slow to show signs and others are quick to show ill effects of bad water.

Bad water can throw growers off the trail in their search for a cause to poor plant health by making it appear that the cause is the fertilizer, lighting, atmosphere, soil or hydroponic system.

A good water source is one of the most important parts of gardening yet it is the most overlooked and underestimated part of photosynthesis. It can make or break the best efforts of the hobby grower or master gardener. It is essential that all micro and macro elements inside the nutrient or soil maintain the proper electromagnetic relationship with each other. It is also important that the plant's roots are exposed to the rich bio-chemical enzymes, hormones and amino acids that they find in the wild. Water in the wild carries these micro elements and bio-chemicals in glacial run off, streams, and floods.

Listed in this flier are a few good reasons why you should use Vita Grow Water Conditioner whenever you water or feed your plants. **It is simply the best product in the world for assuring faultless water application to plants.** Vita Grow Water Conditioner is not a plant food nor does it imply that it is one. Its sole purpose is to condition the water that is fed to plants so that the plants can grow to their full potential.

Thanks, VITA GROW

Water with High Dissolved Solids

Water systems throughout North America are as different as the people living in their cities. Taking a quote from the movie, Forest Gump, "Life is like a box of chocolates. You never know what your gonna get". Depending on how deep a well is drilled, or from what river the municipality or individual household takes its water, determines its unique characteristics. Just because your neighbor has good water doesn't mean that you will too.

Dissolved Solids in the water usually refers to minerals that are present. These minerals can wreak havoc with growers. Minerals can react to other minerals because of their electromagnetic charge. Lets take calcium for example. Calcium, which is a common offender in water supplies, can easily combine with other minerals like sulfur or phosphorus. When it does so the compound that is formed is not water soluble and will drop out of solution. Once this happens the compound is no longer easily absorbed into the plant. The plant must rely on bio-organisms, or its own excreted enzymes and acids, to re-dissolve the compound back into separate elements for uptake.

The plant can only uptake so much and the rest simply builds up. Calcium sulfate can build up in the soil or hydroponic nutrient to the point where the plant can no longer feed. This toxicity, or reverse osmosis, can show both elemental deficiencies and toxicities on plant leaves for elements other than calcium or sulfur. Even leaf analysis will not point in the correct direction. **This is where Vita Grow Water Conditioner can help. It coats the plant food elements so that the elements in the plant food and soil have less chance to combine into unusable compounds.** Plants that do not have to work hard to uptake nutrients will feed easier, become stronger and grow faster.

Dealing with Electromagnetic Fields

In today's living environment electromagnetic fields are common to almost every room we walk through. Wherever there is copper wire wound in a coil-like configuration and electricity is passing through the wire an electromagnetic field is created. This also holds true for an electronic wave created from a transformer and tube (microwave).

All life on Earth is effected in some way from these electromagnetic fields. Even the elements are affected. With the advent of hydroponics electric pumps have taken on a major role of distributing nutrient in and around the hydroponic system. These pumps (you guessed it) make an electromagnetic field. As the nutrient passes through the pump, it is effected in many ways. Some of the elements are charged and some are discharged. Some lose their stability and are attracted to other elements.

This is where the trouble starts. The nutrient needs to have its elements separate and soluble to penetrate the plant roots properly. If the elements combine and fall out of solution then the plant can't uptake those elements. They are left on the bottom or sides of reservoirs and trays in the form of a silt like looking material or electrolysis holds them to the walls of pipes and containers. If the compounds are left to dry they can be as hard as a rock and very hard to remove. **Here again Vita Grow Water Conditioner can help. Its ability to coat each element in the plant food and protect it from other elements is unsurpassed by any other product on the market. Think of the Water Conditioner to mineral elements like insulation is to copper wire. The element or wire can be charged without shocking the passing people.** Without the electrical exchange between the elements the plant food stays soluble in the correct proportions the fertilizer manufacturer intended.