

NEW! bioSoil Results on Medicinal Grow

Hydroponic vs Compost

The plants below (left) were cloned aeroponically in a typical best practice method including a cloning chamber. The plants on the right were propagated using the GLTi bioSoil.



Hydro vs GLTi bioSoil



The Science of Organic Growing!



WHAT IS GLTi bioSoil?

bioSoil is probiotics for plants, turf, agriculture, trees and golf course applications. bioSoil contains a wide consortium of living, natural, beneficial bacteria. Nitrogen fixing bacteria convert nitrogen from the air into natural fertilizer right at the plant, reducing input and fertilizer runoff. Nitrifying bacteria convert higher nitrogen forms into nitrates, the principle form of nitrogen used by plants and turf. Phosphate solubilizing makes the phosphorous in the growing media more available. The combination allows growers and maintenance technicians to greatly reduce their fertilizer inputs. The photosynthetic bacteria in bioSoil “feed” the plant as well as the entire growth media food web by producing sugars and adding carbon biomass. The multiple *Bacillus* strains in bioSoil increase plant and turf health thus increasing their natural resistance to pathogens and disease, lowering the need for pesticides.

bioSoil is advanced science and biotechnology and an all-in-one agriculture product that will augment your compost, manure, humus, compost teas and other biologicals and lower your use of fertilizers, water, fungicides and chemicals.

- Most competitor products contain spore-forming (inert) microorganisms. In contrast, the beneficial bacteria in bioSoil are vegetative (alive and actively growing) so they start working instantly - results are often seen in hours as opposed to days or weeks.
- bioSoil contains a wide variety of beneficial bacteria that perform various functions for the plant. Many competitor products contain 1 or just a few strains.
- We do not use growth inhibitors or other chemicals to keep our microbes alive.
- bioSoil is shelf stable for at least two years, a significant advancement in microbiology.
- bioSoil contains photosynthetic microorganisms that produce energy for plants.
- bioSoil is compatible with fertilizers and most chemicals.
- bioSoil can be mixed with dry or pelletized products.
- bioSoil can be applied by your normal watering equipment: Irrigation systems, watering cans, sprayers (end-hose, backpack, truck), etc.
- bioSoil can be applied as a foliar or a drench treatment.
- bioSoil can be used with Hydroponics
- Reduce fertilizer use by 50%.
- Reduce water use by up to 50%.
- Reduce fungicide and chemical use significantly.
- Increase yields and brix levels by 20% or more.
- Healthier and greener plants, trees and turfs.



The substance of the food we eat today is not the same as it was decades ago due to the way we grow our crops. Practices such as over-fertilization, chemical and hormone use can greatly diminish the nutritional quality in our food supply. These techniques cause plants to grow very quickly, but they don't necessarily have the time to obtain nutrients from the soil or to produce the vitamins, anti-oxidants, and other vital nutrients that add value to our diet and health. This results in food that is deficient in nutrition and adds more empty calories to our diet.

bioSoil contains beneficial bacteria as well as organic humates, a combination that has proven very effective in producing nutrient dense food. Our photosynthetic bacteria produce sugars by utilizing the energy in sunlight. This provides sugar to the plants - increasing the brix (sugar) levels, taste and nutritional quality and density. The other beneficial bacteria in bioSoil help to break down and cycle organic compounds and to sequester minerals, thus providing plants with the raw materials they need to produce healthy substances and to store vital nutrients in their fruits and vegetables. Humates are known to bind over 50 elements from the periodic table, including vital minerals such as calcium and magnesium. The humates in bioSoil concentrate these substances near a plant, allowing the nutrients that are present to be better utilized by the plant and incorporated into the fruits and vegetables.

Data from our field tests and from our many produce growers, including those for one of the largest food chains in the world, have demonstrated fruit and vegetables with higher brix levels, as well as increased nutrient levels of magnesium, calcium and other micronutrients in plants grown with bioSoil.



Left: Potato Roots without bioSoil

Right: Potato Roots with bioSoil