MetaGrow™ ST

Earthworm Compost Derived Microbe Inoculant

Restore Soil Microbiology

Irrigation apply 2-5 gallons per acre per month during the irrigation season.

Multiply Microbe Populations by Adding Microbe Food

Add 0.1lb of MetaGrow™ MFOOD wettable powder per gallon of MetaGrow™ ST.

SGS Sustainable Growing Solutions, LLC

Microbial Inoculants for Agriculture - Made by Farmers for Farmers

MetaGrow™ ST

Different Than Other Microbe Products:

- Over 25,000 different species in very high populations ($1x10^9$/ml)
- Our microbes are put into stasis using a proprietary process. Our stable microbes are very durable and can be applied anytime within a year of brewing;
- Actively respiring microbe products must be used in less than 72 hours;
- Stable microbes come with a large amount of microbial metabolites built up in it so plant response is almost immediate after application;
- Actively respiring microbe products need time to build metabolites in the soil so it is slower acting on the plant;
- Our microbe products are lab tested for pathogens prior to product shipping while other active microbe products (if they are tested at all) only receive lab results after application;
- Our microbe products are unrestricted for use right through harvest while other products may have a 120 day application restriction prior to harvest.
- **MetaGrow ST** is CDFA OIM, OMRI and CCOF organic production approved.

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Restore Your Soil

MetaGrow™ ST

Shelf Stable-Broad Diversity-Microbe Inoculant

SGS Sustainable Growing Solutions, LLC

Microbial Inoculants for Agriculture - Made by Farmers for Farmers

MICROBES

MetaGrow™ ST

- "**ST**" stands for "stable" which allows the microbes in stasis in **ST** to have a 1 year shelf life guarantee.
- Contains very large ($1x10^9$/ml) and diverse populations (25,000+ species) of beneficial bacteria, fungi and protozoa.
- Restores the population size and diversity of microbes in the soil and their functions for the plant.
- Recent trials increased soil microbe species diversity 100%.

CREATE SOIL

Microbe Inoculant Benefits

- Improves soil structure and porosity, which improves soil oxygen exchange for healthier roots;
- Increases soil water infiltration rates which reduces erosion, runoff and ponding of water;
- Improves soil moisture holding capacity of lighter textured soils;
- Increases soil Cation Exchange Capacity (CEC) which improves soil nutrient retention and availability;
- Increases nutrient uptake efficiency through mineralization of nutrients into plant available forms;
- Solubilizes P and chelates Fe, Mg, Mn, Zn, and Cu for plant uptake;
- Supplies high quality organic matter to the soil and plants;
- Supplies beneficial microorganisms which reduce the frequency and severity of plant diseases;
- Promotes root growth;
- Buffers soil pH and salts;
- Improves the plant moisture stress tolerance;
- Provides vital plant nutrients and amino acids;
- Increases yield and improves crop quality; and,
- Increase Brix and improve sugar to acid ratios and flavor profiles.

HEALTH

Different Than Other Microbe Products:

- Our green waste compost is thermophillically composted to eliminate potential pathogens;
- Our compost is then fed to earthworms to further break down the compost, add additional microbial diversity and to add their own metabolites;
- Most other broad biology microbe inoculants are made from manures or food waste products, both of which can result in pathogens and lower quality and diversity microbial populations;
- Our microbes are fed with a proprietary food formula (no simple sugars);
- Many microbe products are made using molasses which raises populations of microbes that are not beneficial;
- Our microbes are brewed using an intensive aerobic process to avoid development of anaerobic microbes;
- Many microbe products use an insufficiently aerobic or an anaerobic process which can result in the development of pathogens (e.g. E-coli and Salmonella) and plant toxins (e.g. alcohol, ethanol, glycol, aldehyde, formaldehyde), etc;
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