



**S.T. BIOLOGICALS™**

PRODUCTS FOR  
**Organic Solutions**

## NANOTECHNOLOGY

**OMNI CROP CARE** products utilize the patented Aqua-Yield® Technology delivery system that encapsulates the nutrients into tiny particles protecting them from environmental loss and glide them through foliar and root barriers delivering them efficiently to the plants at a cellular level. A process called endocytosis providing the most efficient delivery system to the plant.

**BioActive LIQUILIFE+™ (LL+)** enhances soil and plant health with one easy to use liquid. LL+ is a 100% plant-based liquid biological manufactured with Purple Cow Organics patented process containing a broad spectrum of thousands of fungal and bacterial strains. Combined with Aqua-Yield Technology that shields exudates and metabolites, enhancing the rhizosphere. LL+ is an effective and flexible tool in building soil health and nutrient use efficiency throughout the growing season. With versatile application by In-furrow, foliar or broadcast and used in residue management. OMRI listed

**BioActive™ SUPERCHARGER** provides a food source for the LIQUILIFE+ containing 20 Amino Acids, Carbon, Fulvic and Humic acids. The readily available carbon and amino acids promote faster development of proteins and sugars, improving nutrient bioavailability, increasing photosynthesis. Which supports more vigorous growth allowing plants to express their true genetic potential. OMRI listed

**OMNIPRO™** energized by Aqua-Yield Technology can be added to any liquid mixture to enhance plant uptake of nutrients or organic crop protection products. OMRI listed and easy to use low volume rates with proven performance to enhance plant and soil health.

## CALCIUM TECHNOLOGY

**PROTOS 32®** was specifically designed to help create a healthier growing environment improving soil productivity. Once in soil water, Protos-32 solubilizes calcium carbonate and calcium bicarbonate, releasing calcium ions, water and carbon dioxide. This mimics the root exudates being given off by plants to have microbial populations release calcium to the plant, this flocculates the soil improving soil health by increasing water infiltration and water holding capacity and allowing salts in the soil to be flushed out and reducing compaction. Which also boosts rates of earthworms and nutrient cycling.

## TRACE ELEMENTS

**Q-BIO® COMPLEXED NUTRIENTS** Utilize a manufacturing technology whereby a blend of polysaccharides is reacted with specific ionized nutrients, resulting in complexed compounds which help improve nutrient uptake and translocation within the plant. These products are designed for soil and foliar applications for the prevention and correction of nutrient deficiencies. These product offerings include **Q-BIO ZINC, Q-BIO BORON, Q-Bio Magnesium, Q-BIO MANGANESE, Q-Bio Calcium along with Q-BIO NITROGEN** for the mitigation of nitrogen deficiencies.

## POTASSIUM

### Seacole: Organic Growth Nutrient (0-0-4-1)

is a convenient form of potassium and sulfur for both soil and foliar application for the prevention or correction of nutrient deficiencies. Potassium is essential for plant growth and reproduction including starch and sugar production, enzyme activation, disease resistance, yield potential and stalk strength. Both potassium and sulfur play a role in Photosynthesis and protein production. While sulfur enhances nitrogen use efficiency. This should be coupled with OMNIPRO for enhanced nutrient plant availability. OMRI listed.

## COPPER

**INSTILL-O®** is a Bactericide/Fungicide in the final stages of EPA approval. It's proprietary delivery system transports therapeutic doses of copper ions to the vascular tissue of plants providing "Outside-in" protection. The chelated copper compounds translocate copper ions through the leaf cuticle. They move throughout the vascular system of treated plants attaching to plant pathogens and destroying disease. This formula uses less copper than "fixed" coppers to minimize environmental impact. It is an effective curative treatment for sick plants is cost effective and excellent resistance management partner. This product can be used to replace any coppers utilized on your operations today.

**ATTEST-O®** is a plant growth nutrient using the same proprietary delivery system as INSTILL-O to transport copper ions into the vascular tissue of plants. The chelated copper compounds translocate copper ions through the leaf cuticle. They move throughout the vascular system of treated plants providing needed copper in the plant. Copper is essential for many plant functions. It is a catalyst in photosynthesis and respiration. Copper also affects the flavor, storage ability and the sugar content of fruits.

## INSECT & FUNGUS CONTROL

**Cinnerate** is an innovative formulation to obtain disease and pest control through low use concentrations. Cinnerate is an OMRI listed organic pesticide containing an innovative formulation to obtain disease and pest control through low doses. It contains a high concentration of cinnamon oil with different phenolic and monophenolic components. Cinnerate has an eradicative effect against many fungal pathogens including powdery Mildew, rust and other diseases, it is also effective for Mite Control. Cinnerate disrupts the functioning of cell membranes as well as inhibits the growth, attachment and penetration of the pathogenic spores into the plant tissue.

**SOCORO™** is a highly efficient plant derived biopesticide from TerraMera. Socoro is the most advanced neem oil on the market today providing a broad range of control as an insecticide, fungicide and miticide for use on a wide range of annual & perennial crops. Socoro has superior stability providing improved performance and application with multiple modes of actions and may be applied to listed crops up to and including the day of harvest.

## MINERAL & SEED

**LIVESTOCK MINERALS** by taking a systems approach we can help tie your soil fertility to forage quality to ration balancing helping you get the most from your own feedstuffs. We can provide a balanced ration and custom mineral program manufactured to our specifications by McNess for optimal animal health, production and profitability for your operation.

### Forage, Silage Corn and Cover Crop Seed

**Recommendations** Working with Byron Pro Seed to provide the best seed genetics we assist producers in determining the proper seed needed for your soil conditions, final use of crop and desired outcome to enhance the farms profitability.

# SOIL SPEAKS, WE LISTEN.

Get started today! We can help you choose the regenerative agricultural products to help you improve crop yields.



13505, Industrial Park Blvd.  
Plymouth, MN 55441

**(763) 582-1140**

[www.stbiologicals.com](http://www.stbiologicals.com)