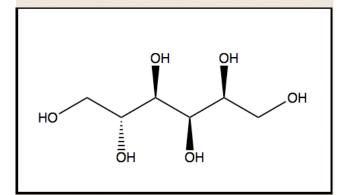
Our products are a fermentation process that uses well known techniques to ensure quality. Our products are described as enzyme and substrate biostimulants. BioPlus Manufacturing has been in operation since 1976. Our soil products improve the mellowness of soil. The products detoxify soil and improve root mass making fertilizers more efficient and tied up nutrients more available. Our products add quick energy to overcome stress and insect attacks.



## ENZYME IMPORTANCE



Enzymes aid in the breakdown of soil nutrients making them more available.

# ENZYMES, THE FOUNDATION OF SOIL



MANUFACTURED BY:
BIOPLUS
MANUFACTURING LLC
FOUNDED IN 1976
ONE OF THE OLDEST
BIOLOGICAL COMPANIES
IN THE UNITED STATES.







**Enzymes perform biological functions** affecting plant growth, plant development, and disease resistance.

There are many rich sources of detoxifying enzymes that plants release by exudates.

This feeds microbes and causes a phytoremediation in the soil. Glucosyltransferase enzymes appear to be effective in the breakdown of organochlorides.

Plants that are nitrogen starved rely on enzymes for survival and growth. Just like the body needs enzymes to digest food, the soil needs enzymes for nutrient availability.

### SOIL ENZYMES IDEN

Beta glucosidase: unlocks glucose Amidase:

unlocks ammonium **Urease:** unlocks ammonium

Phosphatase: unlocks phosphate

Sulfatase: unlocks sulfur **Trehalase** 

unlocks glucose

microbe energy plant available NH<sub>4</sub> plant available NH<sub>4</sub>

plant available P plant available S

sugar energy

organic matter decomposing

**Nutrient cycling** 

**Nutrient cycling Nutrient cycling** 

**Nutrient cycling** 

Plant growth, soil health

#### CARBOHYDRATES AND SUGAR ALCOHOLS HELP STOP INSECTS

D-MELIBIOSE; D-MANNOSE; STACHYOSE; MANNITOL; D-ARABITOL; D-SORBITOL; ALFA D-GLUCOSE; D-CELLOBIOSE; SUCROSE; XYLOSE; D-TREHALOSE; L-LACTIC ACID; D-FRUCTOSE

OUR MANUFACTURING PROCESS TAKES SEVERAL DAYS TO COMPLETE, VERY STRICT RULES OF MANUFACTURING ARE OBSERVED. EACH BATCH OF PRODUCT CONCENTRATE IS ANALYZED BY A TOP QUALIFIED LABORATORY FOR QUALITY.

#### **PRODUCTS:**

D-TOX: reduces toxins, sodium and cleans up carryover herbicide **METABALIZE PRO:** highly concentrated ENZYMES for soil and crops SBA 709: high carbohydrate enzymes for quick growth and energy SS100: superior and persistant soil penetrant and surfactant

iNNERG: high energy kelp foliar protects all crops, use with herbicides

BioPlus 100: Organic soil treatment for organic production

BioPlus 200: Organic foliar to spray on crops under organic production **FOB Hawkins Texas.**