



## ESSENTIAL® PLUS ORGANIC 1-0-1

### A grower's essential soil amendment and biostimulant for better yields, fruit set and crop quality

Essential® Plus Organic 1-0-1 is a 100% organic liquid that works both as an amendment for all types of soils and as a safe, effective root stimulant for plants in every stage of growth. Created by Growth Products, Ltd., an industry leader in technological innovations, this versatile product represents a quantum leap from polymer chemistry into colloidal physics.



As a colloidal solution, Essential® Plus is a combination of



organic materials made up of particles just slightly larger



than atoms. The particles are finely divided and dispersed into a rich solution which has incredible stability and shelf-life. Each ingredient in Essential® Plus provides a rich source of organic building blocks not found in typical N-P-K fertilizers

## A NATURAL BIOSTIMULANT FOR EVERY STAGE OF GROWTH ~

Derived from potassium humate, 20 natural L-amino acids, enzymes, simple & complex sugars, vitamins, kelp extracts, carbohydrates, hydrolyzed organic proteins, a natural wetting

agent and natural biostimulants, Essential® Plus is



engineered to deliver an array of soil and plant solutions. Its proprietary blend of ingredients enhance soil structure, improve overall plant health and give growers better crops every step of the way.

#### SEEDING &

#### GERMINATION:

Essential® Plus increases both the percent of seed germination and the speed with which seeds germinate—even with difficult to germinate seeds. The secret lies in Essential's® controlled mix of humic acids and natural wetting agents which increase seed coat permeability, and its other root stimulants. University trials at Iowa State showed a 50% to 70% increase in seed germination and rooting with Essential® over IBA products.

**CUTTINGS:** Essential® Plus is a safe and effective alternative to chemical hormones such as IBA and NAA when it comes to the propagation of cuttings. Essential's® key ingredients stimulate callus formation and rooting on softwood and hardwood cuttings. Proven in side-by-side trials to be more effective than chemical hormones, Essential® Plus used as a liquid drench lets growers avoid the labor-intensive and costly process of dipping cuttings.

#### SIZING-UP,

#### TRANSPLANTING,

#### REPOTTING:

Essential® Plus is one of the few tools available for the grower to overcome the damages caused by transplant shock and sizing-up. Applied at these critical stages, the special ingredients in Essential® Plus provide soluble



organic nutrients such as sugars, L-amino acids and enzymes which are absorbed through the root system and boost the plant's metabolic activities such as photosynthesis, respiration, nucleic acid synthesis, and ion uptake. The result is healthier plants which don't skip a beat in their growth cycle.

**CROP DEVELOPMENT & YIELD:** Used as a liquid drench or as a foliar spray, Essential® Plus consistently improves blossom set and fruit set on a tremendous variety of crops. Essential®'s natural plant growth promoters produce auxin-like effects at each stage of plant growth. The auxin effects promote cell division and elongation, root growth and branching, blossom formation, blossom set, and fruit set to significantly increase crop yield. In addition Essential® provides the sugars and minor elements necessary for tasty fruit.

**TISSUE CULTURE:** Tissue cultured plantlets require special attention as they acclimate from sterile lab conditions into the greenhouse environment. Since Essential® is pasteurized and therefore sterile, it can be used to great effect during all critical acclimatization stages.

**HYDROPONICS:** Essential® Plus is ideal for use on tomatoes, cucumbers, herbs and other leafy crops. It initiates good seed germination and increased rooting, and can be used in the irrigation system to improve crop vitality and to extend storage shelf life.

## AN ESSENTIAL SOIL AMENDMENT

By adding vital organic matter to depleted soils, Essential® Plus dramatically reduces the effects of compaction, improves water penetration, increases nutrient holding capacity, and neutralizes excess salts in soils. The humic acid in Essential® Plus prevents nutrient ions from leaching through the soil and holds them in a form readily available for plant uptake. Its high carbon content provides a food source for beneficial soil microbes and creates an environment suitable for advantageous microorganism growth.

Ingredient	Purpose
Potassium Humate	Biostimulant / soil amendment
Yucca Extract	Natural Wetting Agent/ Steroid Saponin
North Atlantic Sea Kelp Extract	Biostimulant -Contains natural Auxins & Cytokiins
Fermented Plant Extracts	Rich in L-amino Acids
Gibberellic Acid	A Natural Growth Hormone

## THE BEST CHOICE FOR SUSTAINABLE AGRICULTURE~

### Essential Plus adds to the soil's organic pool

As a 100 percent natural, all-organic product, Essential® Plus is the smart choice for environmentally conscious growers. With Essential® Plus, growers can renew rather than deplete their soils and can also drastically cut or eliminate their use of harmful chemicals. At the same time, growers will experience better yields and better crop quality.

Growth Products, Ltd.

- PO Box 1252 • White Plains, NY 10602 •
- Toll Free: (800) 648-7626 • Fax: (914) 428-2780 •
- [www.GrowthProducts.com](http://www.GrowthProducts.com) •
- [questions@growthproducts.com](mailto:questions@growthproducts.com) •



### ESSENTIAL® PLUS

#### BENEFITS:

- Both a biostimulant and a soil amendment
- Ensures faster and better seed germination
- Offers improved rooting, increased blossom set & fruit set
- Excellent on all crops, from seeding to harvest
- Increases crop yield and quality
- Can be used as a soil drench or foliar spray
- Can be used at all stages of growth
- Adds vital organic matter to depleted soils
- Improves a soil's nutrient holding capacity and improves water penetration
- Holds nutrients in a readily available form for plants
- Encourages beneficial soil microorganism growth
- Neutralizes salts in soil from affluent water or high fertilizer usage

