



*Microbes and plants are intimate partners in virtually every life process and nutrients are the food*

**PureAg PureSYNERGY Nitro Amino** is a water soluble powder produced enzymatically without the use of animal by-products. Our product is derived from non-GMO soy protein, with a guaranteed minimum of 13.62% plant available nitrogen along with a high plant extracted amino acid content of 80%.



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## Benefits of PureSYNERGY Nitro Amino™

- \* 60-68 grams of readily available plant based nitrogen per pound.
- \* No tip burn as customary with synthetic nitrates or ammonia N sources.
- \* Supplies organic plant nitrogen, peptides and amino acids.
- \* High improves the transportation of minerals.
- \* Enzyme hydrolysis produces a smaller particle size which provides its highly soluble nitrogen.

**PureAg PureSYNERGY Nitro Amino** is readily available for nutrient uptake and absorption which is ideal for nitrogen deficient crops. A non-toxic, non-polluting, and vegan plant nutrient recommended for organic agriculture use and as a chemical free fertilizer perfect for environmentally friendly practices. Compatible with conventional nitrogen sources and most fertilizers.

### GUARANTEED ANALYSIS

Total Nitrogen (N).....	13%
13.51% Water Soluble Nitrogen	
0.11% Water In-Soluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	<0.1%
Soluble Potash (K <sub>2</sub> O).....	<0.1%
pH .....	5 - 6
Amino Acids .....	80%

### NUTRIENTS DERIVED FROM

Hydrolyzed soybean protein

**USES:** Suitable for all crops and applications, including field crops, potting soil, vegetable and flower gardens, orchards and turf grass.

### GENERAL RATE OF APPLICATION:

Average Rate of Application: 4-9 lbs per acre  
Hydroponic Rate/Gallon: up to 1 teaspoon  
Foliar/Gallon: up to 1 ounce  
Soil/Gallon: up to 4 ounces

Please see application rates recommendations on our website.

### STORAGE:

Store in frost-free conditions with optimum non-flammable organic fertilizers away from sunlight.

**KEEP OUT OF REACH OF CHILDREN.**

## **L AMINO ACIDS:**

- \* Contains a customized blend of free L amino acids derived entirely from plant proteins.
- \* Specifically formulated to contain high levels of the key amino acids Glutamic Acid and Aspartic Acid.
- \* L amino acids enhance plant metabolism and increases metabolic efficiencies which is essential for healthy plant growth.
- \* Critical metabolic processes include protein synthesis, stress reduction, photosynthesis, stomatal regulation, phytohormone production.
- \* Enhances nutrition assimilation and facilitates translocation of said nutrients within leaf tissue.
- \* Acts as a chelating mechanism by neutralizing charge of minerals/nutrients, especially adept at chelating micro-nutrients.
- \* Rapidly assimilated by plants where it also serves as an organic, readily available nitrogen source.

## **PHOSPHOROUS:**

- \* Essential for bud formation, bud set and flowering process.
- \* Essential for photosynthesis, which is critical for flower development.
- \* Produces energy necessary for flowering process by oxidizing sugars and starches in respiration process.
- \* Without an adequate P supply plants don't convert sugars into energy and plant does not have energy to flower.
- \* Promotes root growth, root formation and root development.
- \* Also a key structural component in proteins, enzymes, nucleic acids, DNA.

## **POTASSIUM:**

- \* The importance of potassium is often overlooked in relation to the flowering process.
- \* Potassium does not directly promote flowering, however it's critical for many bio-chemical reactions that support the flowering process.
- \* Potassium is essential for photosynthesis and carbohydrate metabolism, both of which significantly influence the flowering process.
- \* Inefficient photosynthesis & carbohydrate metabolism leads to low sugar levels, which in turn leads to poor flower development.
- \* Facilitates formation of amino acids, proteins, co-enzymes, starch, DNA & RNA.
- \* Enhances production of cellulose and callose the primary constituents of the cell wall.
- \* Provides increased resistance to environmental extremes (heat, cold, drought, salinity).

## **HUMIC ACIDS:**

- \* Contains a broad spectrum of humic acids and fulvic acids derived from bio-active leonardite.
- \* Recalcitrant microbial carbon source, stimulates the growth and proliferation of beneficial organisms.
- \* Buffers soil pH and enhances cation exchange capacity when growing in containers.
- \* Enhances uptake & assimilation of primary nutrients nitrogen, phosphorous and potassium.
- \* Enhances root initiation, root growth and development, and root architecture.

## **CALCIUM:**

- \* The importance of calcium is often overlooked in hydroponic systems.
- \* Promotes cell elongation, strengthens cell wall, participates in enzymatic reactions & improves stomatal function.
- \* Calcium is required for pollen tube growth & development, which facilitates germination processes.
- \* Calcium is synergistic with auxins (plant growth hormone in kelp), they transport auxins from shoot to root.