



# Nutrila

## Amino Acid – Mineral Complex

Nutrila is Protein Chelated Micro-nutrient powder For Spray & Soil Application. It is a Mineral - Amino Acid Complex like Zn, Mn, Fe, Cu, Mg, & B & in Combination. The amino acids (Protein) provide organic nitrogen along with minerals in complex form which is actively absorb & utilized by plant.

Plants absorb the amino acids (Hydrolyzed Protein) along with mineral ions quickly & easily. Digested protein has a chelating effect on minerals. When applied together with minerals, the absorption and transportation of minerals inside the plant is easier.

This effect is due to the chelating action and to the effect of cell membrane permeability. L - Glycine & L - Glutamic acid are known to be very effective chelating agents. This is present in Organic Nutrila formulation. The Hydrolyzed Protein plays active role in respiratory function. The Hydrolyzed Protein Mineral Complex contains all essential Amino Acids and minerals, which are the precursors of Phyto-hormones and other growth substances and accelerates the Metabolic and Physiological activity of the plant.

The application of Protein, Metal Complex before, during and after the stress conditions supplies the plants with Amino Acids & Minerals which are directly related to stress physiology and thus has a preventing and recovering effect. Nutrila (Hydrolyzed Protein – Mineral Complex) helps to boost up energy metabolism in the plant.

### **Benefits:**

- As it is protein chelated spray dried powder, because of the nano particle size, one will get the results on the plant within 24 hours.
- There is no harm to friendly insects.
- There is no scorching on the leaf.

- Nutrila is a readymade & easily available source of nutrition and hence it helps in pollination & fruit formation.
- Increases chlorophyll concentration & boosts the photosynthesis activity.
- It has a high percentage of biological value & nutritive value.
- No inorganic nitrogen is present.
- Excess dose is non-toxic as it is organic source.
- The rate of absorption of these Complexes of Amino Acids is found to be many times faster than ordinary salts of Minerals.
- These Complexes also meet amino acid requirements of plant. Nutrila is available in combination (Amino Acid with all mineral) as well as individual complex in bulk.

**Dosage:**

1-2 gm of Nutrila per liter of water. One spray a month is enough for optimum results.

**Technical Specifications:**

<b>Description</b>	A fine free flowing hygroscopic, spray-dried powder containing amino acids, short chained peptides derived from protein by hydrolysis with micronutrients (zinc, ferrous, copper, magnesium, boron and molybdenum)
<b>Color</b>	Buff bluish, greenish powder
<b>Solubility</b>	2% solution in water is clear
<b>Ph 2% solution</b>	4.5-6.5 @27 °C
<b>Chemical parameter (On dry wet basis)</b>	Nitrogen (N) – 4.00-6.00% W/W Copper (Cu) – 1.00% W/W Zinc (Zn) – 3.00% W/W Manganese (Mn) – 1.00% W/W Iron (Fe) – 2.50% W/W Boron (B) – 0.50% W/W Molybdenum (Mo) – 0.10% W/W
<b>Total nitrogen</b>	8.27% W/W by Kjeldahl's method

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