

## Nature Agrotech Co.,Ltd

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# Technical Data Sheet

## AMINO ACID FERTILIZER (RAW MATERIAL: SOYBEAN)

### Specifications:

Appearance	yellow granules
Nitrogen	12.0% min
Phosphorus	0.5% min
Potassium oxide	2.0% min
Water solubility	100.0%
Humic Acid (dry basis)	20.0% min
Free amino acid	10.0% min
Protein	80.0% min
Polyglutamic acid	3.0% min
Trace element	2.0% min

### Characteristic

This product is a green and high efficiency pollution-free fertilizer which is extracted from soybean. It is completely different from the process of extracting amino acids from animal feathers, blood and fur. We extract amino acids from soybeans, which is safer, environmentally friendly and residue free.

It is used high technology development of a new type of soybean amino acid organic

fertilizer, selects the high quality soybean meal as raw material, by microbial fermentation twice, depth hydrolysis (protein decomposition rate more than 80%), rich in organic matter, protein, pure plant source of amino acids and silicon, calcium, magnesium and other trace elements, beneficial particles dissolve speed, very suitable for used as fertilizers, and can greatly enhance the absorption of crops to the fertilizer utilization ratio and improve soil structure, good quality and high yield of crops.

Used in aquaculture can make fish fat, purify water quality.

## **Technical patent**

The specially added polyglutamic acid has solved the problem that most fertilizers cannot be mixed with calcium. In addition, it has the following functions.

1. Polyglutamic acid has strong hydrophilicity and water retention capacity, which can prevent sulfate, phosphate, oxalate and other metal elements from precipitation, so that crops can more effectively absorb phosphorus, calcium, magnesium and trace elements in the soil. Promote the development of roots and stems of crops, and enhance disease resistance.
2. Polyglutamic acid can effectively balance soil acidity and alkalinity. It has excellent buffer capacity for acid and alkali, and avoids the acid and alkali soil caused by long-term use of chemical fertilizers.
3. Polyglutamic acid can effectively combine nitrogen, phosphorus and potassium to form organic and inorganic compounds, improve fertilizer utilization, reduce the salt score (EC value) in the soil, create a rhizosphere microenvironment suitable for multiple root growth, make the root system develop better, and ensure that the nutrients absorbed by the root system can meet the needs of crop growth.
4. Polyglutamic acid can enhance the disease resistance and stress resistance of plants, balance plant nutrition and water active components in soil. It can enhance plant resistance and reduce symptoms caused by plant viruses transmitted by soil.
5. Promote yield increase, which can rapidly increase the yield of stems, leaves, fruits, vegetables and other agricultural products by 10-20%.

## **Usage and reference dosage:**

It can be applied directly to the soil or in the combination with other inorganic fertilizer.

75-150 kg/ha, applicable to spraying, flushing and drip irrigation.

Specific dosage can be adjusted according to local soil fertility, crop growth and fertilization habits.

Crops: various types of cash crops, grains, vegetables, fruit tree and field crops.

### **Advantages:**

1. Enough nutrients. It not only contains chemical materials, but also organic materials and microelements. Abundant N, P, K and microelements can keep the health and high-producing of crops. Amino acid can strength the crops growth, enhance the crops resistance, improved the farm products quality. Humic acid can keep moisture, improve the growth of crop roots.

2. Harmless. The harmful index of eggs, bacteria and heavy metal is much less than national standard.

3. Increase the physiological activity of crops, balance the nutrition, activate the enzyme activity, and improve the stress resistance and disease resistance of crops.

4. Improve the soil environment, highly resist heavy stubble, and mature the cultivated layer to make the soil breathable and retain water.

5. Promote the development of crop root system and lodging resistance. It has a good recovery effect on the stiff seedling, weak seedling and replanting after disaster caused by bad factors such as environment, lack of element and climate.

6. Increase output and improve quality. Increase the photosynthesis of crops, color quickly, bright color, thick meat juice, increase sugar, prolong the shelf life.

7. Strengthen the absorption and operation ability of plant nutrients, improve the content of chlorophyll and increase the accumulation of dry matter.

### **Package:**

In 25kg plastic bag .

### **Remark:**

The formula can be customized according to customers' requirement