

RUTOM FERTILIZER



JIANGXI RUTOM BIOTECHNOLOGY CO., LTD

TOP 10 ORGANIC FERTILIZER MANUFACTURER IN CHINA

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AMINO ACID



EFFICIENT PLANT FOOD AND ENERGY

THE ADVANTAGES OF AMINO ACID FERTILIZER



- Supply direct energy for plant to growth.
- Less ATP consumption for plants to process it in physiological cycle.
- Improves the out put quality in thicker fresh, color, juicer and sweetness.
- Promote the plants health, and aids to fight against environment stress.
- Easy to apply for both manually or through machine application.
- Abundant in macronutrients, secondary nutrients and micronutrient.

AMINO ACID

16 – 0 – 0



Total Nitrogen	16%
Organic Matter	35%
Solubility	100%

Free Amino Acid	40%
pH	3.5
Particle size	60 mesh powder

Total 17 types of free amino acid

Aspartic (Asp) 2.4%, Threonine (Thr) 2.5%, Serine (Ser) 3.8%, Glutamic (Glu) 6.8%, Glycine (Cly) 2.8%, Alanine (Ala) 2.2%, Cysteine (Cys) 1.95%, Valine (Val) 3.37%, Methionine (Met) 3.21%, Isoleucine (Ile) 1.88%, Leucine (Leu) 1.4%, Tyrosine (Tyr) 0.05%, Phenylalanine (Phe) 8.14%, Lysine (Lys) 5.86%, Histidine (His) 0.04%.

Application:

- Foliar spray, irrigation, fertigation, drip irrigation.
- Use ratio 1: 800~1200.
- Suitable all plants and crops.

AMINO ACID

17 – 1 – 2



Total Nitrogen

17%

K₂O

2%

Moisture

1.2%

Solubility

93%

Total P₂O₅

1%

Organic Matter

21%

pH

4.2

Particle size

2-4MM Granule

Application:

● For All Vegetables

Mix 300 - 400 grams of the product per square meter with the soil and water thoroughly. Repeat the application weekly or as required.

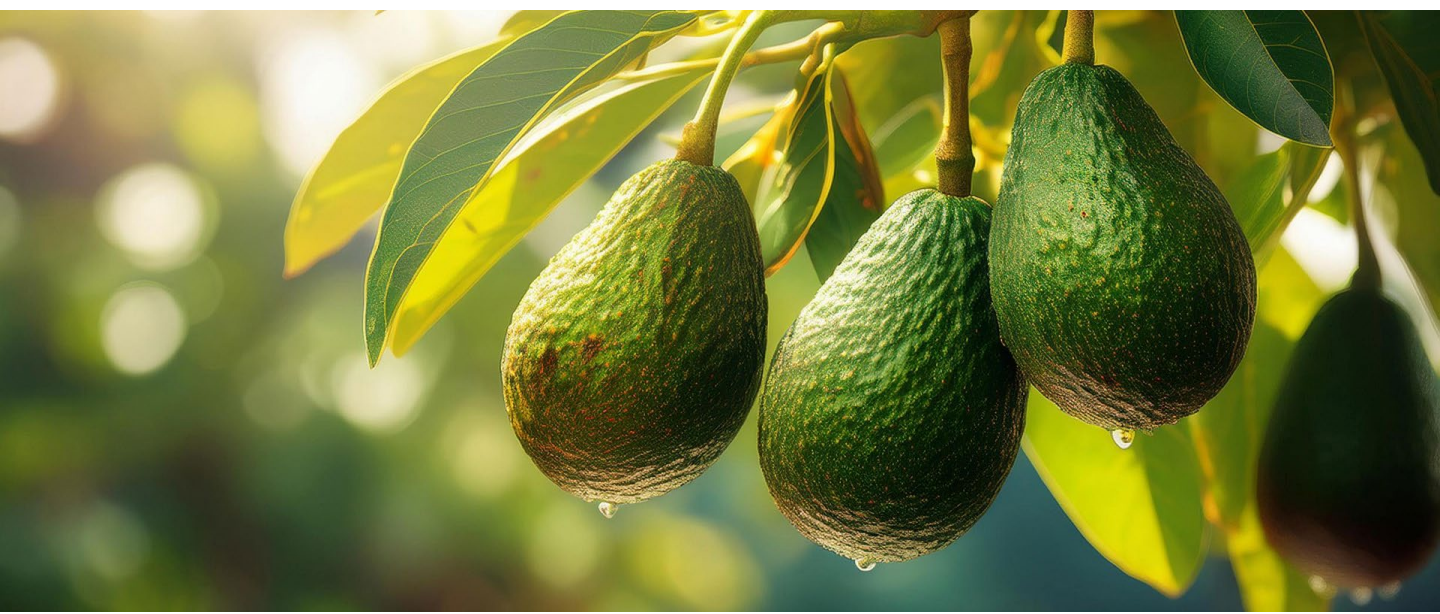
● For Fruit Trees

When used as a base fertilizer, mix 1000 - 2000 grams with the soil, or bury it by digging a hole or ditch and water thoroughly.

Apply it 2 - 3 times during the growth stage.

AMINO ACID

13 – 1 – 3



Total Nitrogen	13%	Total P2O5	1%
K2O	3%	Organic Matter	18%
Moisture	0.5%	pH	3.5
Solubility	80%	Particle size	2-4.5MM Granule

Application:

- For All Vegetables
Apply at a rate of 300 to 500 grams per square meter and repeat the application once every two weeks.
It can be used as either top dressing or base fertilizer. Thoroughly mix it with the soil and water.
- For Fruit Trees
For young trees, apply 300 grams per tree and mix it well with the soil. For mature trees, apply 500 grams per tree. Subsequently, water thoroughly.
The application rate should adhere to local guidelines or be adjusted based on soil test results to formulate the appropriate application plans.

AMINO ACID

12 - 0 - 1



Total Nitrogen	12%
K ₂ O	1%
Moisture	0.5%
Solubility	95%

Total P ₂ O ₅	0.3%
Organic Matter	20%
pH	3.7
Particle size	2-4MM Granule

Application: Slow Release 12-0-3 , 12-1-2 Also Available

- For All Vegetables

Mix 300 - 400 grams of the product per square meter with the soil and water thoroughly. Repeat the application weekly or as required.

It is especially recommended for cruciferous vegetables, such as broccoli, cauliflower, cabbage, and radish; allium vegetables, like onion, garlic, and leek; and leguminous vegetables, including kidney beans, cowpeas, and fava beans.

- For Fruit Trees

When used as a base fertilizer, mix 1000 - 2000 grams with the soil, or bury it by digging a hole or ditch and water thoroughly.

Apply it 2 - 3 times during the growth stage.

AMINO ACID

9 – 1 – 1



Total Nitrogen	9%	Total P2O5	1%
K2O	1%	Organic Matter	14%
Moisture	0.5%	pH	3.7
Solubility	95%	Particle size	2-4MM Granule

Application:

- For All Vegetables
Mix 300 - 400 grams of the product per square meter with the soil and water thoroughly. Repeat the application weekly or as required.
It is especially recommended for cruciferous vegetables, such as broccoli, cauliflower, cabbage, and radish; allium vegetables, like onion, garlic, and leek; and leguminous vegetables, including kidney beans, cowpeas, and fava beans.
- For Fruit Trees
When used as a base fertilizer, mix 1000 - 2000 grams with the soil, or bury it by digging a hole or ditch and water thoroughly.
Apply it 2 - 3 times during the growth stage.

AMINO ACID

8 – 3 – 1



Total Nitrogen	8%	Total P2O5	3%
K2O	1%	Organic Matter	95%
Moisture	1.2%	pH	3.7
Solubility	95%	Particle size	2-4MM Granule

Application:

- For All Vegetables
Mix 300 - 400 grams of the product per square meter with the soil and water thoroughly. Repeat the application weekly or as required.
- For Flowers
This product can be used throughout the year. Apply 50 grams per flower once a month to achieve vibrant growth.
- For Fruit Trees
When used as a base fertilizer, mix 1000 - 2000 grams with the soil, or bury it by digging a hole or ditch and water thoroughly.
Apply it 2 - 3 times during the growth stage or follow your local guidelines.

POLYGLUTAMIC ACID 14-0-0



Total Nitrogen	14.5%
Organic N	3.0%
pH	3.08
C.E	143.6 mS/cm

Ammonia N	11.5%
Total Carbon (C)	14.5
Solubility	97%
Particle size	1-2 MM Granule

Application:

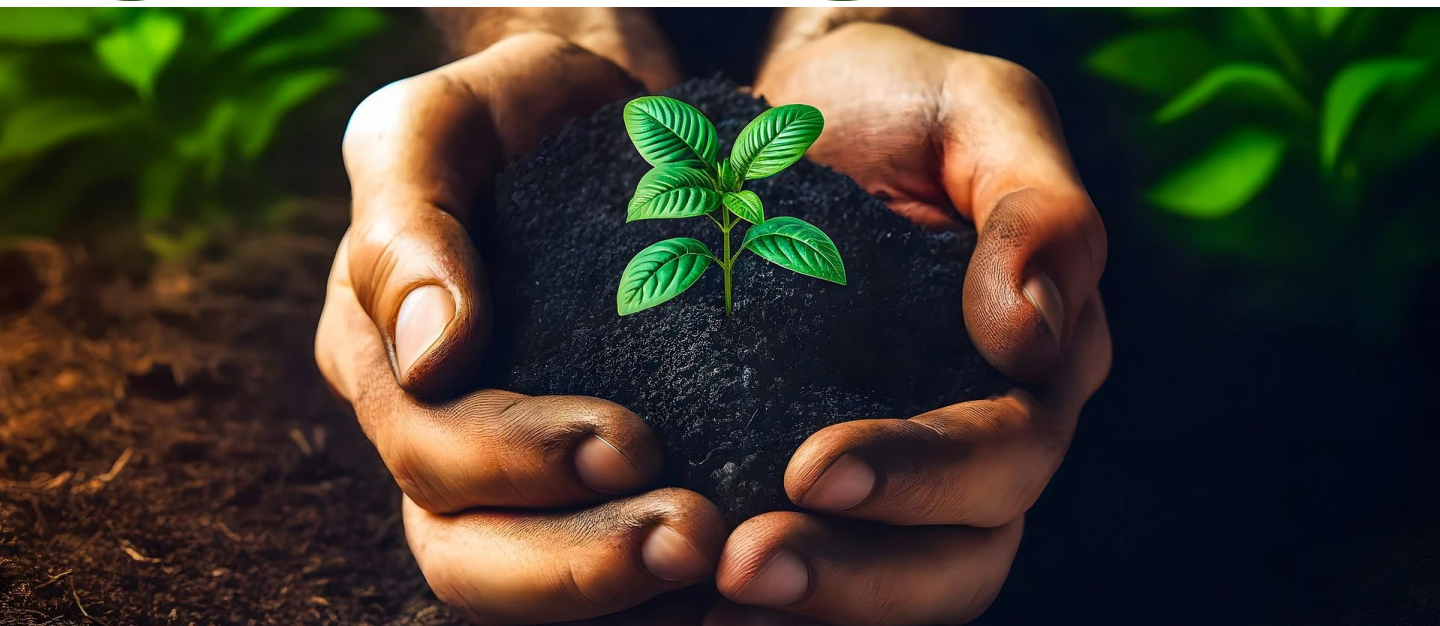
- 100% vegan material fermented product.
- PGA contains carboxyl group that can retain nutrition and reduce nutrition leaching.
- Polyglutamic acid is powerful water sponge to store moisture.
- Visible robust and vigorous root and leaves growth.
- Drought stress alleviating agent.
- Organic food for soil beneficial microorganisms.
- PGA promote soil aggregate formation to improve soil ventilations and permeability.

HUMIC ACID



**IMPROVE SOIL ABILITY
QUICKLY AND EFFICIENTLY**

HUMIC ACID GRANULE



Total Nitrogen

0.33%

K₂O

0.7%

Moisture

8.9%

Carbon (C)

12.35%

Total P₂O₅

0.2%

Organic Matter

21.29%

pH

7-8

Particle size

2-4MM Granule

Advantages:

- Increase the stability of soil aggregates.
- Improve soil pore conditions.
- Enhance soil fertilizer retention.
- Improve soil water retention.
- Promote plant growth.
- Enhance plant stress resistance
- Improve fertilizer utilization efficiency.

Application:

Sparkle and mix it with soil. 750Kg/ hectare.

POTASH HUMATE

FLAKE 1-0-10



Total Nitrogen	0.987%
MgO	0.263%
Total Carbon (C)	37.78%
pH	9.96

K ₂ O	10.12%
CaO	1.12%
Organic Matter	65.13%
C.E	15.10 mS/cm

Advantages:

- Excellent soil improvement effect.
- Promote soil microbial activities
- Enhance plant stress resistance Potassium humate can improve the drought resistance of plants.
- Enhance the resistance of plants to pests and diseases.
- promote the transportation and accumulation of sugar in plants, which is beneficial to the development and quality improvement of fruits.
- Improve fertilizer utilization rate Potassium humate can be used in combination with various fertilizers to play a synergistic role.
- Improve fertilizer utilization efficiency.

POTASH HUMATE GRANULE



Total Nitrogen

0.82%

K₂O

6.35%

Moisture

2.5%

C.E

10.10 mS/cm

Total P₂O₅

0.35%

Organic Matter

60.13%

pH

8.96

Particle size

2-4MM Granule

Application:

● Base Fertilizer

Apply 150 to 750 kilograms per hectare to mix with soil before transplanting.

Application dosage should follow you soil test result or local guidelines..

● Top dressing Fertilizer

Apply 500 to 750 kilograms per hectare at the growth stage of plants. .

● Raw Material For Bulk Blending Use

Should apply it based on your formula calculations.

FULVIC ACID



**IMPROVE SOIL ABILITY
STIMULATE A
HEALTHIER GROWTH**

MINERAL 3-0-13

FULVIC ACID



Total Nitrogen

3%

K₂O

13%

MgO

1.67%

Total Carbon (C)

26.15

Solubility

98%

CaO

2%

Total P₂O₅

0.35%

Organic Matter

45%

Sulfur (S)

2%

Particle size

2-4MM Granule

C.E

91.91 mS/cm

pH

5.10

Advantage:

- Contributes To Build A Health Soil.
- Soil Buffer and Soil pH Regulator.
- Improves the Plant's Root Development
- Improves The Roots Capability of Absorbing Nutrients.
- Improves Fertilizers Efficiency.
- Enhance the Stress Resistance of Plants.
- Improves Harvest Quality and Yield.

BIO-CHEMICAL FULVIC ACID



Total Nitrogen	1.19%
MgO	0.302%
CaO	1.21%
Total Carbon (C)	33.06%
Solubility	98%
Fe	0.745%

K ₂ O	10.85%
Organic Matter	57%
Sulfur (S)	2.73%
Appearance	Brown Powder
C.E	53.22 mS/cm
pH	9.51

Advantage:

- Botanical source biochemically reacted potassium fulvate
- 100% water soluble quick acting potassium and trace element.
- Improves soil CEC (Cation Exchange Capacity) to reduce nutrients leaching.
- Improves The Roots Capability of Absorbing Nutrients.
- Contains sugar, fiber and protein, excellent foods for beneficial soil microorganisms
- Suitable for all crops and plants.

SEAWEED EXTRACT



**ROOT GROWTH STIMULATOR
SOIL ABILITY POWER UP
FOOD FOR MICROORGANISM**

SEAWEED EXTRACT₀₋₀₋₁₈



K2O	18%	Alginate Acid	18.5%
Organic Matter	45%	Humic Acid	33.2%
pH	10.22	Solubility	100%

Advantage:

- Contains a high concentration of potassium, alginate acid, organic matter, and humic acid, which work synergistically to provide comprehensive nourishment for plants.
- A potent growth stimulant, promoting the vigorous development of both roots and the above-ground parts of the plant, enhancing its overall vitality and robustness.
- Supplies polysaccharide substances that are essential for optimizing cell growth, enabling cells to proliferate more efficiently.
- 100% water-soluble, allowing for rapid absorption and utilization by plants. It delivers prompt responses, with visible growth enhancements becoming evident within a matter of days, providing growers with quick and tangible results.

Your Reliable Fertilizer Factory & Business Partner



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