



**Sunney**

# CATALOGUE

THE MOST PROFESSIONAL MANUFACTURER OF  
ORGANIC FERTILIZER IN CHINA

[www.sunney-tech.com](http://www.sunney-tech.com)



## Company Profile

Jiangxi Rutom Biotechnology Co., Ltd. is a professional manufacturer of organic fertilizer integrating R&D, production, sales and service as a whole. We mainly produce and sell seabird guano phosphate fertilizer, organic fertilizer, organic-inorganic fertilizer, mineral micropowder fertilizer, water soluble fertilizer and liquid fertilizer.



Our production base covers more than 70,000 square meters with modernized office building, well-equipped workshop, experienced R&D team, world-class organic fertilizer production lines. We also actively introduce advanced technology and scientific formulations from home and abroad. At present, our factory has an annual output of 50,000 metric tons.



With high quality products and excellent customer service, our company enjoys a good reputation in the industry. Our products sell well in USA, Canada, Spain, Korea, South Africa, Australia, New Zealand and other developed countries. We export around 20,000 metric tons of organic fertilizer annually.



We will always uphold our corporate mission "To Create Value For Customers, Create Opportunities For Staff, Create Benefits For Society, Create Future For Company" and our corporate spirit "Fidelity, Efficiency, Innovation" to provide customers with satisfactory products and services.







CONCENTRATE ON BEING THE  
PROFESSIONAL ECO- ORGANIC  
FERTILIZER SUPPLIER

# CERTIFICATION



CERES Japan (JAS)



ISO 14001 Certificate



CERES US (NOP)



ISO 9001 Certificate



CERES Reg. (EU) 2021/1165



ECOCERT China

Note: if you want to know more about organic inputs products, please contact us.



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## GUANO SERIES PRODUCTS

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Micronized technology has been widely used in mining industry for several centuries. We take the lead in applying micronized technology in the mineral fertilizer industry.

Our guano micropowder sells well in Australia, New Zealand etc. We focus on the future, will develop more new raw materials and provide more micronized powder fertilizer.

## Seabird Guano Micronized Powder

### SPECIFICATION

Total P <sub>2</sub> O <sub>5</sub>	28~32%
Total CaO	28%min
Moisture	5%max
Size:	2500 mesh & 6000 mesh

### CHARACTERISTIC

- Free of heavy metals and chemical additives, the product is suitable for organic farming.
- Micronized guano is rich in phosphate and calcium good for crops' health.
- Help crops' root development, increase yield and quality.
- Phosphate and Calcium can keep soil fertile and retain nutrients needed for crops' growth.
- Rich in trace elements needed for crops' growth.
- Micronized guano can also be used as hydroponic fertilizer.
- Can effectively promote crop, melon, fruit and vegetable' s growth.

## CHARACTERISTIC

- Multielement compound fertilizer containing N, P and Mg, effective and available. Provide crop nutrient, promote root and fruit growth and improve produce quality and output.
- Used as base fertilizer and topdressing, can be also applied with other fertilizer.
- Can be used on lawn, turf, houseplants, vegetables, ornamentals and fruit trees etc.
- Especially suitable for Mg-deficient, hot and rainy soil.
- Free of heavy metals and chemical additives, no environmental pollution.

## Struvite Micronized Powder

### SPECIFICATION

Total N	4%min
Total P <sub>2</sub> O <sub>5</sub>	23~25%
Available P <sub>2</sub> O <sub>5</sub>	23~25%
Total MgO	21%min

## Dolomite Micronized Powder

### SPECIFICATION

CaCO <sub>3</sub>	54%
MgCO <sub>3</sub>	42%

## CHARACTERISTIC

- Dolomite contains high concentration of CaCO<sub>3</sub> and MgCO<sub>3</sub>, has excellent performance in coordinating the soil pH value.
- It is suggested to be used on the soil of lower PH.
- By supplying with slow release Ca and Mg, it could help improve crop health condition.

Besides the above products, we also produce micronized powders of **Szaibelyite, Kaolin, Diatomite, and Zeolite**. We can also customize according to customers' requirements. Contact us for more details.

## GRANULAR TYPE WATER-SOLUBLE FERTILIZER

Rutom makes granular water soluble fertilizer from organic materials like yeast mixtures, mineral potassium fulvate etc. and chemical materials like urea, MAP, SOP, ammonium sulfate etc. by special innovated technology. The water solubility is excellent. The nutrition is all-round and balanced.

### CHARACTERISTIC

- Rutom granular water soluble fertilizer doesn't only contain NPK macrolelements needed for crop growth, but also contain synergistic ingredients like yeast mixtures, mineral potassium fulvate, organic matters etc. The nutrition is comprehensive and balanced.
- Water soluble fertilizer made into granular form is suitable for multiple application methods, like broadcasting, furrow application, flush irrigation, sprinkler irrigation.
- Granular water soluble fertilizer can be dissolved in the same water used to irrigate crops, making it easy to fertilize and hydrate your crops at the same time, to achieve the purposes of saving water, fertilizer and labor.
- Besides quickly providing N, P and K needed for plants' growth, it also provides organic nutrients needed for plants' growth. It combines both quick-acting and slow acting effects and can better meet the demand of crop growth.

### Granular Water Soluble Fertilizer NPK 15-6-9

#### SPECIFICATION

Total N	15%min
Total P <sub>2</sub> O <sub>5</sub>	6%min
Total K <sub>2</sub> O	9%min
Moisture	1.5%max
Water Solubility	95%
Water Soluble Organic Matter	15%

Besides NPK 15-6-9, we also produce **9-5-18**, **10-5-10** etc. We can also customize according to customers' requirements. Contact us for more details.



- Amino Acid Granule Fertilizer NPK 12-0-3 is made from molasses, sugar beet extractives and starch syrup. After extracting amino acid by advanced microbial fermentation technology, the remnant is concentrated and hydrolyzed by German advanced triple-effect EVR concentrator, and finally made into quick-acting granule organic fertilizer by advanced spray granulation technology.
- Amino Acid Granule Fertilizer NPK 12-0-3 is rich in bacterium protein, amino acid, vitamin and minerals. Besides providing N, P and K needed for plants' growth, it also provides microelements like Ca, Mg, Cu, Zn, Fe, Mn etc.

### CHARACTERISTIC

- Contains organic nitrogen, provides immediate nitrogen for plants and helps plants and fruits grow fast.
- Rich in active amino substances, it can promote root development, improve nutrient absorption, repair damaged issue, strengthen plants' health and resistance to adversity.
- Besides being directly absorbed by crops, the LMW organic molecule, after hydrolyzing, also beneficial for the crops to absorb inorganic nutrients.
- Rich in organic nutrients, it can improve soil structure, provide good breeding environment for microbes, improve beneficial microbes number and improve plant resistance to pathogens.
- Rich in glutamate, it can promote inorganic nitrogen to convert to organic nitrogen, and strengthen photosynthetic efficiency, improve crop quality, output and flavor, increase revenues.

### Amino Acid Granule Fertilizer NPK 12-0-3

#### SPECIFICATION

Total N	12%min
Total K <sub>2</sub> O	3%min
Organic Matter	25%min
Water Solubility	90%
Hardness	30N

## LIQUID TYPE WATER-SOLUBLE FERTILIZER

### CHARACTERISTIC

- By constant temperature chelating technology of complex sugar alcohol hydroxyl group, calcium and magnesium are chelated with organic matter, which can improve the utilization rate of calcium and magnesium and the movement speed in the crop, breaking absorption barrier of calcium.
- Scientific ratio of calcium and magnesium, high nutrient content, high specific gravity, it can quickly supplement the medium elements and small molecular carbon required by crops, promote photosynthesis, stimulate cell division of the root, and enhance the cold resistance, drought resistance and disease resistance of crops
- Calcium supplement through double channels: Calcium sprayed on the fruit can be absorbed directly through the fruit surface, and calcium sprayed on the leaf surface can be transported to the fruit through the leaf veins.
- Magnesium supplement: It can promote the formation of chlorophyll, prevent yellow leaves, enhance the absorption of nitrogen, phosphorus and potassium, and improve cold resistance.
- It doesn't contain chloride and hormone and will do no harm to the leaves and the fruit surface. It is safe and environmentally friendly.

### Sugar Alcohol Calcium Magnesium Liquid Fertilizer

#### SPECIFICATION

Ca	150g/L
Mg	20g/L
Sugar alcohol	95-100g/L

Rutom makes organic liquid fertilizer from selected high-quality natural plant sources and mineral sources by special technology. As a new kind of fertilizer, it has excellent solubility and fluidity.

### CHARACTERISTIC

- Besides providing N, P and K needed for plants' growth, it also provides microelements like Ca, Mg, Cu, Zn, Fe, Mn etc., which can satisfy the demand of crop growth.
- It is free of chloride, sodium and other unfavorable elements to the crops. It has no impurities and no pollution to the environment.
- Compared with traditional organic fertilizer, its fertilizer efficiency is higher, so it may be used at lower volumes, but higher yield and quality. And the release of nutrients is uniform, to avoid the phenomena like “root burning” etc.
- Integration of water and fertilizer is more convenient in fertilizing and can save water, fertilizer and labor, resulting in higher economic benefits.
- Besides NPK 7-4-4, we also produce 4-4-7, 5-5-5 etc. We can also customize according to customers' requirements. Contact us for more details.

### Organic Liquid Fertilizer NPK 7-4-4

#### SPECIFICATION

Total N	7%min
Total P <sub>2</sub> O <sub>5</sub>	4%min
Total K <sub>2</sub> O	4%min
PH	5-7



- This product is extracted and produced by natural materials. It contains 17 kinds of amino acids, micronutrients like Fe, Zn, Mn, B. It can help to keep flower and fruit, improve fruit setting rate, reduce fruit dropping and cracking. It can effectively prevent diseases and pests, strengthen photosynthesis. It is an widely-used environmental friendly fertilizer.

### CHARACTERISTIC

- It can be directly absorbed by crop, promoting the rapid growth of crop cell protoplasm and activating the physiological function of crops.
- Fully water soluble, no delamination, no precipitaion.
- Same input, efficiency increased by 30%.
- Use high-quality natural ingredients, high efficiency.
- Prevent diseases, enhances crop immunity, improves resistance to adversity and coldness.
- Promote fruit ripening and fruit uniformity.

## Amino Acid Liquid Fertilizer

### SPECIFICATION

Amino Acid	200g/L
Total N	80g/L
Organic Matter	100g/L
PH	4.5

## Humic Acid Liquid Fertilizer

### SPECIFICATION

Total N	180g/L
K <sub>2</sub> O	23 g/L
Humic Acid	40 g/L
PH	6.9

- This product is concentrated liquid fertilizer made by new biological fermentation technology. It contains dozens of beneficial nutrients like humic acid, polysaccharide, gibberellin, micronutrients, plant active elements etc. It contains no hormones, is the first choice to produce green organic products.

### CHARACTERISTIC

- Fully water soluble, no delamination, no precipitaion.
- Alkaline, improve and restore soil.
- Same input, efficiency increased by 30%.
- Uses high-quality raw materials, high efficiency.
- Prevents diseases, enhances crop immunity, improves resistance to adversity and coldness. No chloride.

## POWDER TYPE WATER-SOLUBLE FERTILIZER

- Humic acid functional group of Potassium Humate can absorb and store  $K^+$ . It is a kind of efficient organic potassium fertilizer, can improve soil available potassium content, decrease potassium loss and fixation, increase crop absorption and utilization of potash. It also has the functions of improving soil, promoting crop growth, enhancing crop adversity ability, improving crop quality and protecting agroecological environment.

### Potassium Humate

#### SPECIFICATION

Humic Acid	65-70%min
Total $K_2O$	10-12%
Water Solubility	99%min
Moisture	15%max

### CHARACTERISTIC

- Potassium Humate is a kind of efficient organic potassium fertilizer, possessing bio-active preparations humic acid. It can be made into many kinds of specifications and shapes by unique manufacturing technique.
- It can meet the needs of potash for plant growth, slowly decompose and increase potassium release and improve rapidly available potassium content.
- It can enhance potassium fertilizer utilization, obviously increase fertilizer efficiency, improve crop yield, enhance crop adversity ability, strengthen root increasing yield, improve crop quality and improve melon and fruit sweetness.
- It obviously improve soil environment, enhance soil ability of preserving moisture and fertility and offer nutrients needed for activity of soil beneficial microorganism.

### TYPE

80-100mesh	powder
20-40mesh	powder
2-5mm	irregular granule
2-4mm	ball granule
5mm	columnar

## CHARACTERISTIC

- It contains different kinds of amino acids and high nitrogen, playing a unique role in promoting plant growth, especially photosynthesis.
- Amino acids are effective plant growth regulators and powerful complexing agents.
- Improve crop resistance to adversity, promote rooting, keep flower and fruit.
- Free of heavy metal and chloride, completely water soluble, safe and reliable.
- It has good compound property, is a good material to make organic fertilizer, water flush fertilizer, foliar fertilizer, liquid fertilizer etc.

### BESIDES COMPLEX AMINO ACID POWDER, WE ALSO MANUFACTURE SINGLE AMINO ACIDS:

L-Methionine

L-Arginine

L-Nucleotide

L-Tryptophan

## Amino Acid Powder

### SPECIFICATION

Total Amino Acid	80%
Total Nitrogen	8-12%
Water Solubility	100%
Moisture	5% max

Trace Elements

## Potassium Fulvate

### SPECIFICATION

Fulvic acid	70%min
Total K <sub>2</sub> O	8-10%
Water Solubility	99.5%min
Moisture	2%max

## CHARACTERISTIC

- Improve soil aggregate structure, free soil, improve soil ability to preserve moisture and fertility, enhance plant's drought resistance capacity; regulate PH value, reduce heavy metal content in the soil, reduce the damage of salt ions to seeds and seedlings.
- Improve fertilizer utilization rate. Enhance plant absorption of nitrogen, reduce the fixation of phosphorus, improve the utilization rate of potassium fertilizer and plays an important role in enhancing root and seedlings, resisting continuous cropping and diseases, and improving crop quality. Fulvic acid has strong complexation capacity and can improve the absorption and operation of trace elements in plants.
- Strengthen plant root adhesion and rapid absorption ability, promote the development of crop root, improve yield and quality.



### CHARACTERISTIC

- Promote root development, seedling development and crop growth.
- Promote robust plant, enhance resistance to diseases, pests and adversity.
- Promote bud differentiation and blossom.
- Promote fruit formation, enlarging and bright color, improve yield and quality.
- Chelated trace elements can prevent deficiency symptom effectively.



## NPK Water Soluble Fertilizer

### Different NPK ratios:

#### Balance:

18-18-18+TE

19-19-19+TE

20-20-20+TE

#### High N:

30-10-10+TE

30-15-5+TE

**High P:** 10-42-8+TE

#### High K:

15-5-32+TE

10-10-40+TE

**Trace Elements:** 0.2-3%

**Insolubles in water**  $\leq 0.05\%$

**Moisture**  $\leq 0.5\%$

- Organic Compound Fertilizer NPK 5-3-2 is made from tea seed meal, castor meal, palm meal, seabird guano, potassium magnesium sulfate and other natural materials. Besides providing N, P and K needed for plants' growth, it also provides microelements like Ca, Mg, Cu, Zn, Fe, Mn etc.

## Organic Compound Fertilizer NPK 5-3-2

### SPECIFICATION

Total N	5%min
Total P <sub>2</sub> O <sub>5</sub>	3%min
Total K <sub>2</sub> O	2%min
Organic Matter	60%min

### CHARACTERISTIC

- Contains organic nitrogen, provides immediate nitrogen for plants and helps plants and fruits grow fast.
- Rich in organic nutrients, it can improve soil structure, provide good breeding environment for microbes, improve beneficial microbes number and improve plant resistance to pathogens.
- Rich in active amino substances, it can promote root development, improve nutrient absorption, repair damaged issue, strengthen plants' health and resistance to adversity.
- It combines both quick-acting and slow-acting effects, suitable to be used as base fertilizer and dressing fertilizer for vegetable, fruit tree, melon and fruit, flower etc.

### OTHER FORMULATIONS OF ORGANIC COMPOUND FERTILIZER

**NPK 3-2-2, 3-3-7, 3-4-5, 3-10-1**

**NPK 4-2-2, 4-3-3, 4-4-4, 4-7-2**

**NPK 5-3-2, 5-3-5, 5-5-5**

**NPK 6-2-4, 6-3-3**

**NPK 7-4-5**

**NPK 10-3-0, 10-3-1**

**NPK 12-0-1, 12-1-2**

We can also produce other NPK ratios according to customers' requirements. OEM orders are welcomed! Contact us with your specific requirements!

## CHARACTERISTIC

- A kind of high nitrogen organic fertilizer granulated from CP80% hydrolyzed feather meal;
- Complete amino acid composition, rich in various microelements;
- Improve soil microbial population and soil environment;
- Promote plant growth and physiological flower bud differentiation, prevent aging;
- Strengthen photosynthesis and carbohydrate accumulation, effectively produce sugar, protein, starch etc.

## Feather Meal Granule NPK 12-0-0

### SPECIFICATION

Total N	12%min
Hardness	20N

## Tea Seed Meal

### SPECIFICATION

Saponin	15%min
Organic Matter	80%min
Moisture	7%max
Total N	3%min
Total P2O5	1%min
Total K2O	1%min

## CHARACTERISTIC

- Natural pesticide. It can also kill oncomelania, apple snail, earthworm, sandworm, nematode, leech, cutworm and other underground and aquatic diseases in the rice field, vegetable field, flower, lawn, golf course, wetland etc. It will not destroy the vegetation, it's a kind of natural pesticide.
- Efficient and eco-friendly organic fertilizer. The crude protein of tea seed meal is pretty high. It's a kind of natural, pollution-free, high quality eco-friendly organic fertilizer. It is optimal fertilizer for growing pollution-free vegetable and flower and fruit.
- Aquatic cleaning agent. Tea seed meal contains 12-18% saponin, a kind of haemolysin enterotoxin which can make bacterial cell hemolysis and thus achieve disinfection and sterilization effects. It can also be used as raw material to extract tea saponin. Thus tea seed meal can be widely used in aquatic cleaning pond, coastal farmland snail killing, vegetable cultivation earthworm killing etc, improving water quality.



- Organic Inorganic Compound Fertilizer NPK 12-8-16 is made from organic materials like tea seed meal, castor seed meal and palm meal etc. and chemical materials like urea, MAP, SOP, MgO etc. by special technology.
- Besides providing N, P and K needed for plants' growth, it also provides organic nutrients needed for plants' growth. It combines both quick-acting and slow-acting effects and can better meet the demand of crop growth.

### Organic Inorganic Compound Fertilizer NPK 12-8-16

#### SPECIFICATION

Total N	12%min
Total P <sub>2</sub> O <sub>5</sub>	8%min
Total K <sub>2</sub> O	16%min
Total MgO	2%min
Organic Matter	40%min

## OTHER FORMULATIONS OF ORGANIC INORGANIC COMPOUND FERTILIZER

**NPK 8-4-7, 8-8-16, 8-16-8**

**NPK 9-4-7, 9-8-3**

**NPK 10-3-3, 10-5-10**

**NPK 12-3-3, 12-3-5, 12-5-3, 12-8-3, 12-8-16**

**NPK 16-8-8**

We can also produce other NPK ratios according to customers' requirements. OEM orders are welcomed! Contact us with your specific requirements!

## CHARACTERISTIC

- Free of heavy metals and chemical additives, the product is suitable for organic farming.
- Rich in phosphate and calcium good for crops' health.
- Help crops' root development, increase yield and quality.
- Phosphate and Calcium can keep soil fertile and retain nutrients needed for crops' growth.
- Rich in trace elements needed for crops' growth.
- Can effectively promote crop, melon, fruit and vegetable' s growth.

## Guano Granular

### SPECIFICATION

Total P2O5	25~28%
Total CaO	28%min
Moisture	5%max

Size: 2-5mm

## Compound Guano

We can produce compound guano as belows:

Seabird Guano+ (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>  
 Seabird Guano+KCL  
 Seabird Guano+PMS  
 Seabird Guano+Humic Acid

## CHARACTERISTIC

- Made from high-quality raw materials from animal and plant, mixing with chlorine free chemical materials by certain ratios and unique granulation technology.
- Timely meet the nutrients need of crop growth, supplement the soil with organic matter and improve soil granulation structure.
- No need to change fertilization habit to achieve double effects of increasing yield and improving soil.
- Add Mg which supplement medium elements for crop growth, effectively improve photosynthetic efficiency, increase yield and quality.

We can produce compound guano according to customers' needs, making it not only contain high phosphate, but also nitrogen and potassium, to provide more comprehensive nutrients for plants' growth.



***Sunney***

## **JIANGXI RUTOM BIOTECHNOLOGY CO. LTD.**

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### **MARKETING HEADQUARTERS**

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