



Shandong Dayi Biotechnology Group Co., Ltd.



+86 137 2196 6756

info@dayibiotech.com

dayibiotech.com

No. 8878 Weichang Road, Southern Lebu Village, Lebusan Ecological Economic Development Zone, Weicheng District, Weifang City, Shandong Province, China.

01 Humic Acid Fertilizer (With Seaweed Extract)



This fertilizer combines seaweed and humic acid to enhance soil fertility and plant growth. It is rich in organic matter and essential nutrients, making it ideal for improving soil structure and promoting healthy plant development.

Fulvic Acid ≥ 40%

K₂O ≥ 15%

Humic Acid: ≥ 40%

Seaweed Salt ≥ 35%

Organic Matter ≥ 60%



- 🌱 Improve soil aggregate structure, enhance soil fertility, and alleviate soil compaction.
- 🌱 Stimulate root development and promote crop growth.
- 🌱 Strengthen crop resistance to stress and diseases.
- 🌱 Increase crop yield.

02 Seaweed Extract Fertilizer (With Various TE)



This product is a blend of seaweed and essential trace elements, designed to provide balanced nutrition for plants. It supports root development, improves nutrient uptake, and enhances overall plant health.

K₂O ≥ 5%

TE (Trace Elements) ≥ 10%

Seaweed Salt ≥ 7%

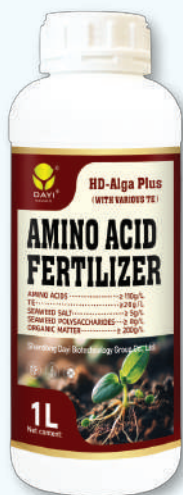
Organic Matter ≥ 12%

Seaweed Polysaccharides ≥ 10%



- 🌱 Prevention and control of root diseases such as root rot, wilting, and plant death.
- 🌱 Soil improvement for continuous cropping fields.
- 🌱 Enhance immunity and disease resistance.
- 🌱 Promote crop and root growth.

03 Amino Acid Fertilizer (With Various TE)



This liquid fertilizer combines amino acids, trace elements, and seaweed to boost plant growth and stress resistance. It is perfect for foliar application or soil drenching, ensuring rapid nutrient absorption.

Amino Acid $\geq 110\text{g/L}$

TE $\geq 20\text{g/L}$

Seaweed Polysaccharides $\geq 8\text{g/L}$

Seaweed Salt $\geq 5\text{g/L}$

Organic Matter $\geq 200\text{g/L}$

- Prevent flower and fruit drop.
- Increase fruit content and improve taste.
- Enhance resistance to high temperatures, radiation, sunburn, and frost damage.
- Repair damaged fruit skins and tissues.



04 Seaweed Extract Fertilizer (With Various TE)



This liquid fertilizer is enriched with seaweed and trace elements, providing a balanced nutrient profile for plants. It enhances flowering, fruiting, and overall plant vigor, making it suitable for a wide range of crops.

N $\geq 40\text{g/L}$

P₂O₅ $\geq 50\text{g/L}$

K₂O $\geq 30\text{g/L}$

Trace Elements $\geq 20\text{g/L}$

Seaweed Salt $\geq 15\text{g/L}$

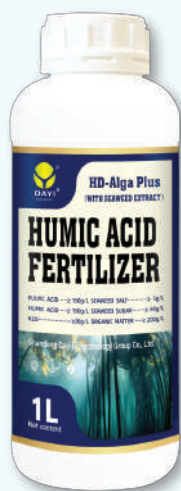
Seaweed Sugar $\geq 40\text{g/L}$

Organic Matter $\geq 100\text{g/L}$

- Promote rapid rooting and growth.
- Enhance resistance to stress and diseases.
- Increase the sugar, mineral, and vitamin content in crops.
- Improve fruit taste, color, and nutritional value.
- Improve soil quality.



05 Humic Acid Fertilizer (With Seaweed Extract)



This fertilizer combines humic acid and seaweed to improve soil health and plant growth. It enhances nutrient availability, stimulates root development, and increases resistance to environmental stress.

Fulvic Acid $\geq 150\text{g/L}$

Humic Acid $\geq 150\text{g/L}$

K₂O $\geq 30\text{g/L}$

Seaweed Salt $\geq 5\text{g/L}$

Seaweed Sugar $\geq 40\text{g/L}$

Organic Matter $\geq 200\text{g/L}$

- Promote rapid rooting and crop growth.
- Enhance leaf greenness and improve fruit brightness and color.
- Increase crop resistance to low temperatures, drought, and high temperatures.
- Prevent early crop senescence.



06 Neutral Silicon Fertilizer



Neutral Silicon Fertilizer is a clear, liquid formulation designed to boost crop strength, disease resistance, and stress tolerance. With balanced Si and SiO₂ content, it enhances yield quality and prolongs shelf life for healthier harvests.

Si ≥ 100g/L

SiO₂ ≥ 230g/L

PH: 6.5 - 7

- Enhance the ability of crops to resist lodging
- Improve the disease and pest resistance of crops.
- Improve crop yield and quality, and extend shelf life.
- Improve the fullness of grains in rice and wheat.
- Increase crop resistance to low temperatures, drought, and high temperatures.



07 Mineral Source Potassium Fulvate Fertilizer



Mineral Source Potassium Fulvate Fertilizer is a premium black powder rich in humic and fulvic acids, designed to improve soil health and crop vitality. With high organic matter and potassium content, it boosts root growth, nutrient absorption, and overall plant resilience.

Humic Acid ≥ 55%

Fulvic Acid ≥ 50%

Organic Matter ≥ 70%

K₂O ≥ 12%

- Improve soil aeration, promote the formation of soil aggregates, and regulate soil pH level.
- Promote root growth and vigorous plant development, stimulate the overall growth level of the plant.
- When used in combination with fertilizers, this product can increase the rate of fertilizer conversion and absorption, promote photosynthesis, and enhance the quality of crops. Improve fruit taste, color, and nutritional value.



Product Name	Formulation	Technical Specifications	Density	Packaging
Macronutrient 200-200-200 Seaweed Polyglutamic Acid Type	Suspension Agent	N≥200g/L, P2O5≥200g/L, K2O≥200g/L, TE≥5g/L, Trehalose≥15g/L, Polyglutamic Acid≥5g/L	1.5	1L, 20L, 1000L
Macronutrient 300-100-100 Seaweed Polyglutamic Acid Type	Suspension Agent	N≥300g/L, P2O5≥100g/L, K2O≥100g/L, TE≥5g/L, Trehalose≥15g/L, Polyglutamic Acid≥5g/L	1.4	1L, 20L, 1000L
Macronutrient 100-300-100 Seaweed Polyglutamic Acid Type	Suspension Agent	N≥100g/L, P2O5≥300g/L, K2O≥100g/L, TE≥5g/L, Trehalose≥15g/L, Polyglutamic Acid≥5g/L	1.35	1L, 20L, 1000L
Macronutrient 100-100-400 Seaweed Polyglutamic Acid Type	Suspension Agent	N≥100g/L, P2O5≥100g/L, K2O≥400g/L, TE≥5g/L, Trehalose≥15g/L, Polyglutamic Acid≥5g/L	1.45	1L, 20L, 1000L
EM Bacteria	Powder	Viable Bacteria Count ≥30 billion/mL	1.03	1L, 20L, 1000L
Acidic Silicon	Clear Liquid	Si≥160g/L, SiO2≥360g/L	1.3	1L, 20L, 1000L
Neutral Silicon	Clear Liquid	Si≥100g/L, SiO2≥230g/L	1.2	1L, 20L, 1000L
Giant Seaweed Silicon (Acidic Silicon)	Clear Liquid	Si≥100g/L, Trehalose≥50g/L, Seaweed Salt≥5g/L	1.1	1L, 20L, 1000L
Fish Protein (Liquid)	Suspension Agent	Amino Acids≥100g/L, Organic Matter≥100g/L	1.05	1L, 20L, 1000L
Polyglutamic Acid (Liquid)	Suspension Agent	Polyglutamic Acid≥60g/L, Organic Matter≥100g/L	1.03	1L, 20L, 1000L
Enzyme Amino Acids	Suspension Agent	Amino Acids≥200g/L, Organic Matter≥100g/L, Polysaccharides≥10g/L, Polypeptides≥30g/L	1.1	1L, 20L, 1000L
Lactoferrin	Suspension Agent	Lactoferrin≥50g/L, Organic Matter≥100g/L	1.02	1L, 20L, 1000L
Tree Bark Seaweed Enzymatic Hydrolysate	Clear Liquid	Alginate Acid≥30g/L, Trehalose≥60g/L, Organic Matter≥100g/L	1.05	1L, 20L, 1000L
Chitooligosaccharides (Liquid)	Clear Liquid	Chitooligosaccharides≥100g/L	1.05	1L, 20L, 1000L
5-Aminolevulinic Acid (5-ALA)	Clear Liquid	≥25g/L	1.03	1L, 20L, 1000L
Rhamnolipid	Suspension Agent	≥50g/L	1.03	1L, 20L, 1000L
Ectoine	Clear Liquid	≥50g/L	1.03	1L, 20L, 1000L
Color & Sweetness Enhancer	Suspension Agent	5-ALA≥15g/L, P2O5≥200g/L, K2O≥200g/L, Amino Acids≥90g/L, Organic Matter≥100g/L	1.3	1L, 20L, 1000L
Amino Acid Trace Elements + Seaweed	Clear Liquid	Amino Acids≥110g/L, Mn≥6.3g/L, Zn≥11.2g/L, B≥2g/L, Mo≥0.5g/L, Fe≥2g/L, Trehalose≥30g/L, Seaweed Salt≥5g/L, Organic Matter≥200g/L	1.25	1L, 20L, 1000L

Calcium Magnesium Trace Elements	Clear Liquid	Ca≥171g/L, Mg≥19g/L, B≥0.7g/L, Cu≥0.5g/L, Fe≥0.8g/L, Mn≥1.6g/L, Zn≥0.5g/L, N≥160g/L, Amino Acids≥20g/L	1.6	1L, 20L, 1000L
Amino Acid Medium & Trace Elements	Clear Liquid	Amino Acids≥110g/L, Zn≥100g/L, Mg≥30g/L, Fe≥10g/L, Mo≥2g/L, B≥2g/L, Mn≥2g/L, N≥90g/L	1.4	1L, 20L, 1000L
Seaweed Phosphorus Potassium	Clear Liquid	0-500-600, Trehalose≥5g/L	1.55	1L, 20L, 1000L
Seaweed Phosphite Potassium	Clear Liquid	0-520-340, Trehalose≥5g/L	1.45	1L, 20L, 1000L
Seaweed Liquid Calcium	Clear Liquid	Ca≥180g/L, Trehalose≥5g/L	1.5	1L, 20L, 1000L
Seaweed Liquid Zinc	Clear Liquid	Zn≥160g/L, Trehalose≥5g/L	1.4	1L, 20L, 1000L
Seaweed Liquid Boron	Clear Liquid	B≥150g/L, Trehalose≥5g/L	1.35	1L, 20L, 1000L
Calcium Magnesium Boron Iron Zinc	Clear Liquid	Ca≥150g/L, Mg≥20g/L, B+Zn+Fe≥10g/L	1.5	1L, 20L, 1000L
Seaweed Calcium Magnesium	Clear Liquid	Ca≥160g/L, Mg≥20g/L, Trehalose≥5g/L	1.5	1L, 20L, 1000L
Seaweed Boron Molybdenum	Clear Liquid	B≥120g/L, Mo≥10g/L, Trehalose≥5g/L	1.3	1L, 20L, 1000L
Seaweed Boron Zinc Molybdenum	Clear Liquid	B≥120g/L, Mo≥10g/L, Zn≥5g/L, Trehalose≥5g/L	1.3	1L, 20L, 1000L
Trichoderma harzianum (Powder)	Powder	Viable Bacteria Count ≥20 billion/g		1KG, 25KG/bag
Giant Seaweed Oligosaccharide Powder	Powder	Alginic Acid≥20%, Seaweed Oligosaccharides≥40%, Organic Matter≥30%		1KG, 25KG/bag
Seaweed Trace Elements	Powder	K ₂ O≥5%, TE≥10%, Seaweed Salt≥7%, Seaweed Polysaccharides≥10%, Organic Matter≥12%		1KG, 25KG/bag
Polyglutamic Acid (Powder)	Powder	Polyglutamic Acid≥25%		1KG, 25KG/bag
Chitooligosaccharides (Powder)	Powder	Chitooligosaccharides≥95%		1KG, 25KG/bag
5-ALA (Powder)	Powder	5-ALA≥5%; 5-ALA≥10%		1KG, 25KG/bag
Bacillus subtilis	Powder	Viable Bacteria Count ≥100 billion/g		1KG, 25KG/bag
Bacillus licheniformis	Powder	Viable Bacteria Count ≥100 billion/g		1KG, 25KG/bag
Fish Protein (Powder)	Powder	Free Amino Acids≥25%, Protein≥80%, N≥12%, P ₂ O ₅ ≥1%, K ₂ O≥1%		1KG, 25KG/bag
Ectoine (Powder)	Powder	≥98%		1KG, 25KG/bag
γ-Aminobutyric Acid	Powder	≥98%		1KG, 25KG/bag
Seaweed Humic Acid	Powder	Humic Acid≥50%, Seaweed Salt≥35%, Organic Matter≥60%, K ₂ O≥15%		1KG, 25KG/bag



Shandong Dayi Biotechnology Group Co., Ltd.

Shandong Dayi Biotechnology Group Co., Ltd., established in 2004, is a high-tech enterprise specializing in molecular biology and synthetic biology as its core technologies. The company is dedicated to the research, production, and sales of functional microorganisms, microbial functional metabolites, and functional biological raw materials. It provides systematic production and application solutions for functional fertilizers.

In 2020, the company was listed on the Qilu Equity Exchange Center and currently operates five major production bases. These bases are equipped with advanced intelligent fermentation systems, fully automated product production systems, sophisticated inspection and testing equipment, and a comprehensive quality control system.

The company boasts strong R&D capabilities, with high-level research platforms such as an "Academician Workstation," a "Postdoctoral Research Station," and a "Provincial Enterprise Technology Center." It maintains long-term strategic partnerships with renowned research institutions including UC Davis, Shandong University, Ocean University of China, Shandong Agricultural University, and the Qingdao Institute of Bioenergy and Bioprocess Technology of the Chinese Academy of Sciences. It is a research-oriented national high-tech enterprise, recognized as a Gazelle Enterprise of Shandong Province, a Specialized and New Enterprise of Shandong Province, and a Hidden Champion Enterprise of Shandong Province. Based on synthetic biology, genomics, and molecular biology, the company develops functional bio-fertilizers through methods such as screening, mutagenesis, and genetic engineering. These products play a significant role in modern agriculture due to their stable quality and unique effects.

Under the principles of co-construction, sharing, and mutual benefit, Dayi Biotech is committed to working together in the field of green agriculture, growing together, and contributing its scientific and technological strength to sustainable farming.

The company's current product offerings mainly include:

- ✓ Functional microbial fertilizers
- ✓ Amino acid water-soluble fertilizers
- ✓ Seaweed extract water-soluble fertilizers
- ✓ Humic acid water-soluble fertilizers
- ✓ Macronutrient water-soluble fertilizers
- ✓ Medium-element water-soluble fertilizers
- ✓ Micronutrient water-soluble fertilizers
- ✓ Silicon-containing water-soluble fertilizers
- ✓ Soil conditioners
- ✓ Biological fermentation agents

+86 137 2196 6756 info@dayibiotech.com dayibiotech.com

No. 8878 Weichang Road, Southern Lebu Village, Lebushan Ecological Economic Development Zone, Weicheng District, Weifang City, Shandong Province, China.