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绿核生物

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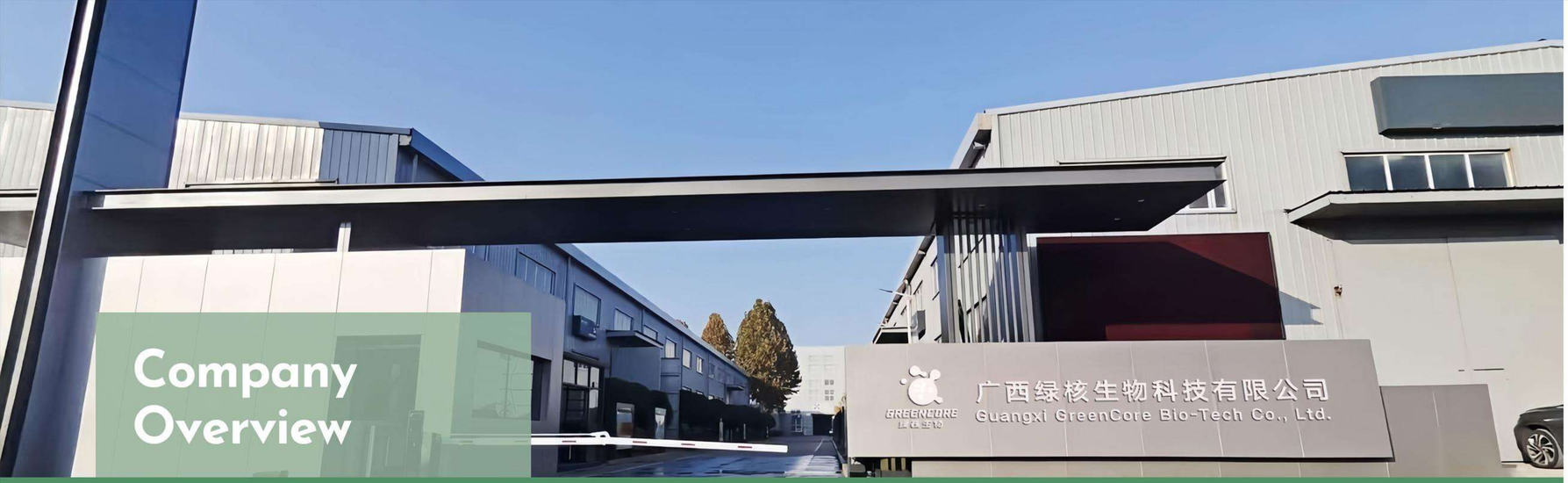
绿核生物

Guangxi GreenCore Bio-Tech Co., Ltd

Integrated Agricultural Chemical Intermediate Solutions

PRODUCT CATALOG

Since 2015



Company Overview

Guangxi Green Core Biological Technology Co., Ltd is a leading supplier of agricultural chemical intermediates, specializing in high-quality, stable, and customizable intermediates for the global fertilizer and agrochemical industries.
We are committed to supporting sustainable agricultural practices worldwide by delivering intermediates for plant nutrition, functional performance, soil health, and crop protection. Our products are used by fertilizer manufacturers, agrochemical formulators, agricultural brands, and agribusinesses across key global markets.

Manufacturing & Quality :

Our state-of-the-art manufacturing facility spans 5,000 m² and is equipped with modern production lines and advanced testing laboratories. This allows us to achieve batch-to-batch consistency, formulation stability, and ensure compliance with global regulatory standards.We proudly produce over 10,000 tons of intermediates annually, supporting large-scale agrochemical and fertilizer production. Our operations are ISO 9001 and ISO 14001 certified, ensuring adherence to the highest standards in quality management and environmental sustainability.

R&D & Technical Support :

Our expert R&D team, in collaboration with top-tier agricultural universities and research institutions, works on continuously optimizing product structures and application performance. We offer formulation-oriented technical support to ensure compatibility, stability, and efficacy for every intermediate, empowering our clients to create reliable and high-performing agricultural products.

Global Presence & Annual Supply Capacity :

With customers across Asia, Latin America, Europe, and other major agricultural regions, GreenCore Bio is dedicated to building long-term partnerships. We are proud to supply over 10,000 tons of agricultural chemical intermediates annually, supporting global markets and helping clients scale their operations.

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Ethylenediaminetetraacetic Acid (EDTA)

Item	Description
Chemical Name	Ethylenediaminetetraacetic Acid
Abbreviation	EDTA
CAS No.	60-00-4
Molecular Formula	$C_{10}H_{16}N_2O_8$
Molecular Weight	292.24
Appearance	White crystalline powder
Solubility	Slightly soluble in water

Technical Specifications

Item	Description
Assay	≥ 99.0%
Melting Point	120 – 125°C
Moisture	≤ 0.5%
Residue on Ignition	≤ 0.1%
Appearance	White crystalline powder
Solubility	Completely soluble in water

Applications

EDTA is a fundamental chelating intermediate used to produce a wide range of micronutrient fertilizers and agrochemical formulations.

Used for

- EDTA Fe, Zn, Mn, Cu chelates
- Water-soluble micronutrient fertilizers
- Liquid fertilizer formulations
- Agrochemical stabilization
- Trace element blends

It improves nutrient stability, prevents precipitation, and increases crop absorption efficiency.

EDDHA Iron Chelate Intermediate

Item	Description
Chemical Name	EDDHA Iron Chelate
CAS No.	16455-61-1
Molecular Formula	$C_{14}H_{16}FeN_2O_6$
Appearance	Dark red to brown powder
Solubility	Soluble in water, stable in alkaline solutions
Stability	Stable in pH 3-11 range

Technical Specifications

Item	Description
Iron Content (Fe)	≥ 6.0%
pH (1% solution)	7 – 9
O-O Isomer	≥ 85%
Loss on Drying	≤ 1.0%
Chloride (Cl)	≤ 0.005%
Heavy Metals (Pb)	≤ 0.001%
Appearance	Dark red to brown powder
Solubility	100% soluble in water

Applications

EDDHA Iron Chelate is a crucial intermediate for the production of EDDHA-Fe 6% and other chelated iron fertilizers. It plays an essential role in improving iron availability in alkaline soils, helping to correct iron deficiency in crops.

Used for synthesis of

- Production of EDDHA-Fe 6% chelated fertilizers
- Soil iron deficiency correction in alkaline soils
- Suitable for drip irrigation and foliar spraying applications

Enhancing micronutrient uptake in crops like fruits, vegetables, and crops sensitive to iron

DTPA (Diethylenetriaminepentaacetic Acid)

Item	Description
Chemical Name	Diethylenetriaminepentaacetic Acid
Abbreviation	DTPA
CAS No.	67-43-6
Molecular Formula	$C_{14}H_{23}N_3O_{10}$
Molecular Weight	393.35
Appearance	White to light yellow powder
Solubility	Soluble in water

Technical Specifications

Item	Description
DTPA Content	≥ 99.0%
pH (1% solution)	2.0 – 3.0
Iron (Fe)	≤ 0.001%
Chloride (Cl)	≤ 0.01%
Heavy Metals (Pb)	≤ 0.001%
Loss on Drying	≤ 0.5%
Appearance	White to light yellow powder

Applications

DTPA is a high-performance chelating agent mainly used for the production of DTPA-Fe, DTPA-Zn, DTPA-Mn, and DTPA-Cu micronutrient fertilizers. Compared with EDTA, DTPA provides stronger chelation and better stability in neutral to mildly alkaline soils.

Used for

- Production of DTPA-Fe 11% and other micronutrient chelates
- Water-soluble and liquid fertilizers
- Drip irrigation and fertigation systems
- Soil and foliar micronutrient formulations

It improves nutrient availability and prevents metal ion precipitation in fertilizer solu

Fulvic Acid

Item	Description
Chemical Name	Fulvic Acid
CAS No.	479-66-3
Molecular Formula	$C_{14}H_{10}O_6$
Molecular Weight	314.23
Appearance	Dark brown to black powder
Solubility	Easily soluble in water

Technical Specifications

Item	Description
Fulvic Acid Content	≥ 50%
pH (1% solution)	4.5 – 6.5
Solubility	100% soluble in water
Organic Matter	≥ 90%
Moisture Content	≤ 10%
Heavy Metals (Pb)	≤ 0.001%
Appearance	Dark brown to black powder

Used for

- Production of Fulvic Acid-based fertilizers
- Soil health improvement and nutrient enhancement
- Plant growth promotion and stress resistance
- Soil conditioners and biostimulants
- Chelating agent for micronutrient fertilizers

Fulvic Acid is also known for improving fertilizer uptake and enhancing plant resistance to drought and disease.

Seaweed Extract

Item	Description
Product Name	Seaweed Extract
Source	Brown Seaweed (Ascophyllum nodosum)
Appearance	Brown powder / dark brown liquid
Solubility	Fully soluble in water
Odor	Slight seaweed smell
Type	Plant biostimulant & functional fertilizer intermediate

Technical Specifications

Item	Description
Organic Matter	≥ 45%
Alginic Acid	≥ 18%
Mannitol	≥ 5%
Potassium (K O)	≥ 12% (powder type)
pH (1% solution)	8 – 10
Solubility	100% water soluble
Moisture	≤ 5% (powder)
Appearance	Brown powder / dark brown liquid

Applications

Seaweed Extract is a natural bioactive substance widely used in modern agriculture to promote plant growth, enhance stress resistance, and improve crop quality.

Used for

- Production of seaweed-based liquid fertilizers
- Foliar spray and fertigation formulations
- Root development and transplant shock reduction
- Abiotic stress tolerance (drought, salinity, heat, cold)

Improvement of crop yield, size, and color

Seaweed extract contains natural plant hormones, amino acids, and polysaccharides that stimulate crop metabolism and root activity.

Humic Acid

Item	Description
Product Name	Humic Acid
Source	Leonardite / Lignite
Appearance	Black to dark brown powder
Solubility	Partially soluble in water
Type	Soil conditioner & fertilizer intermediate

Technical Specifications

Item	Description
Humic Acid (dry basis)	≥ 60%
Organic Matter	≥ 70%
Moisture	≤ 15%
pH (1% solution)	4 – 6
Appearance	Black powder
Heavy Metals (Pb)	≤ 0.001%

Applications

Humic Acid is a natural organic substance widely used to improve soil fertility, nutrient retention, and microbial activity.

Used for

- Production of soil conditioners
- Organic and compound fertilizers
- Granular and powder fertilizer formulations
- Soil structure improvement
- Increasing fertilizer efficiency

Humic acid improves cation exchange capacity (CEC), water retention, and root development.

Potassium Humate

Item	Description
Product Name	Potassium Humate
Type	Water-soluble humic acid salt
Appearance	Black flakes / powder
Solubility	Fully soluble in water
Odor	Slight organic smell

Technical Specifications

Item	Description
Humic + Fulvic Acid	≥ 65%
Humic Acid	≥ 50%
K O	≥ 10%
Solubility	100% water soluble
Moisture	≤ 15%
pH (1% solution)	9 – 11
Appearance	Black flakes / powder

Applications

Potassium Humate is the most widely used water-soluble humic fertilizer intermediate, suitable for both soil and foliar application.

Used for

- Liquid humic fertilizers
- Drip irrigation & fertigation
- Foliar spray formulations
- Compound fertilizer blending
- Root growth and stress resistance improvement

It improves nutrient uptake, enhances soil microbial activity, and increases crop yield and quality.

Imidacloprid

Item	Description
Chemical Name	Imidacloprid
CAS No.	138261-41-3
Molecular Formula	C9H10ClN5O2
Molecular Weight	255.67 g/mol
Appearance	Off-white to pale yellow crystalline powder
Solubility	Soluble in acetone, methanol, and other organic solvents; slightly soluble in water
Type	New Nicotine-like Insecticide

Technical Specifications

Item	Description
Assay	≥ 98.0%
Appearance	Off-white to pale yellow powder
Melting Point	140-144°C
Boiling Point	495.4°C at 760 mmHg
Solubility (Water)	0.5 mg/L (25°C)
Loss on Drying	≤ 0.5%
Heavy Metals (Pb)	≤ 0.001%
Residual Solvents	Compliant with industry standards

Applications

Imidacloprid is a broad-spectrum, systemic insecticide that is widely used in agricultural applications for pest control.

Used for

- Protection of fruits, vegetables, cereals, and cotton from insect pests
- Control of soil insects (e.g., root maggots, termites, etc.)
- seed treatments, foliar spray, and soil application

Effective against aphids, whiteflies, thrips, fleas, and cockroaches

1,2,4-Triazole

Item	Description
Chemical Name	1,2,4-Triazole
CAS No.	288-88-0
Molecular Formula	$C_2H_3N_3$
Molecular Weight	69.07
Appearance	White crystalline powder
Solubility	Soluble in water and polar solvents
Chemical Type	Triazole heterocycle

Technical Specifications

Item	Description
Assay	≥ 99.0%
Melting Point	120 – 125°C
Moisture	≤ 0.5%
Residue on Ignition	≤ 0.1%
Appearance	White crystalline powder
Solubility	Completely soluble in water

Applications

1,2,4-Triazole is a core building block in the synthesis of many world-class triazole fungicides and agrochemical active ingredients.

Used for

- Synthesis of triazole fungicides (tebuconazole, propiconazole, triadimefon, etc.)
- Crop protection active ingredient production
- Pharmaceutical and fine chemical intermediates

Custom agrochemical synthesis

It provides the essential antifungal triazole ring required for high biological activity.

2,4-D (2,4-Dichlorophenoxyacetic Acid)

Item	Description
Chemical Name	2,4-Dichlorophenoxyacetic Acid
Abbreviation	2,4-D
CAS No.	94-75-7
Molecular Formula	$C_8H_6Cl_2O_3$
Molecular Weight	221.04
Appearance	White to light brown crystalline powder
Solubility	Slightly soluble in water, soluble in organic solvents
Chemical Type	Phenoxyacetic acid herbicide intermediate

Technical Specifications

Item	Description
Assay	≥ 98.0%
pH (1% solution)	2.8 – 3.5
Loss on Drying	≤ 0.5%
Residue on Ignition	≤ 0.2%
Impurities	≤ 2.0%
Appearance	White to light brown crystalline powder

Applications

2,4-D is a classic selective systemic herbicide intermediate mainly used to control broadleaf weeds in cereal crops, grassland and industrial areas.

Used for synthesis of

- 2,4-D acid
- 2,4-D amine salts
- 2,4-D esters

These formulations are widely used in :

- Wheat, corn, rice
- Pasture & grassland
- Sugarcane, turf and non-crop areas

Quality Control & Compliance

At Green Core Bio, quality is our top priority. Our production processes strictly follow international quality management standards, including ISO 9001 (Quality Management System) and ISO 14001 (Environmental Management System), ensuring the highest standards of safety and efficiency.

Raw Material Inspection :
Rigorous testing of raw materials to meet strict quality standards.

In-Process Monitoring :
Real-time monitoring during production to ensure consistency.

Final Product Testing :
Comprehensive testing to validate safety, efficacy, and environmental compliance.

Our dedicated customer support team provides customized solutions and technical assistance to ensure client satisfaction. From product application guidance to addressing technical challenges, we are always ready to support our customers.

Technical & R&D Capabilities

Green Core Bio boasts a highly skilled R&D team and state-of-the-art laboratory facilities dedicated to innovation in agricultural chemical products. Our experts specialize in developing cutting-edge solutions for sustainable agriculture, leveraging advanced testing and evaluation technology.

We are committed to developing green and sustainable products that reduce environmental impact while enhancing agricultural productivity. From bio-based intermediates to eco-friendly formulations, innovation is embedded in every product we create.

To stay at the forefront of technological advancements, we collaborate with top-tier agricultural universities and research institutions worldwide. These partnerships drive innovation and help us address the growing challenges in global agriculture.

Core strengths

- **Green Innovation :**
  Focus on environmentally friendly and sustainable chemical solutions.
- **Custom Development :**
  Tailored product development to meet specific client needs.
- **Cutting-Edge Facilities:**
  Equipped with the latest technology for rigorous testing and evaluation.