# China's Core Position and Competitive Advantages in the Global White Kidney Bean Extract Supply Chain

## Preface

Featuring α-amylase inhibitor as its core active ingredient, white kidney bean extract is an essential natural raw material for weight management, blood sugar regulation, functional foods, and dietary supplements, aligning with the global trend of health-conscious consumption. Against the backdrop of the rapid development of the global health industry, China has emerged as a core pillar of the global white kidney bean extract industry, backed by its unparalleled native resources, a fully closed-loop industrial chain, and stringent quality control systems. It boasts an absolutely dominant and irreplaceable industry position with uncopyable core competitiveness, serving as a reliable long-term strategic partner for global merchants.

## Part 1 China's Core Position in the Global White Kidney Bean Extract Supply Chain

This section elaborates on China's objective positioning, scale dominance, and discourse power in the global industrial landscape, highlighting its overall leadership and irreplaceability.

### I. Absolute Dominance in Global Production and Supply, Serving as the Industry's Stabilizer

China is universally recognized as the world's largest producer, exporter, and raw material supplier of white kidney bean extract, firmly holding the initiative in global supply and occupying an absolutely dominant position. In 2024, the global total output of white kidney bean extract reached approximately 1,600 metric tons, with China producing over 1,200 tons, accounting for more than 75% of the global total. Its annual export volume hit 1,240 tons, representing over 70% of global trade volume, making it the core source of global market supply.

China boasts extensive white kidney bean cultivation areas and massive yields. In 2024, the national cultivation area exceeded 1.86 million mu, with annual raw material output surpassing 400,000 tons, accounting for over 85% of the global share. Core production areas are concentrated in Yunnan, Guizhou and other regions, featuring outstanding quality and sufficient supply. China is the only country capable of large-scale, regular, and bulk stable supply. All major global health food and supplement companies list China as their core raw material base, and China's supply volume and price trends directly determine the operation and market conditions of the global industrial chain.

## II. Closed-Loop Industrial Chain Layout: The Only Fully Self-Controllable Industrial Hub

China has built the world's most complete industrial chain for white kidney bean extract, realizing a full closed-loop operation covering **cultivation—primary processing—refined extraction—quality inspection—global distribution**, with no external dependence or supply disruptions, and its controllability far surpasses other production regions worldwide.

- Upstream: Standardized cultivation bases in Yunnan, Guizhou, Jilin, Heilongjiang and other provinces, achieving 100% raw material self-sufficiency;
- Midstream: Adequate GMP-certified production capacity and a mature, comprehensive extraction and processing system;
- Downstream: Supporting global logistics networks and professional quality inspection systems, ensuring efficient delivery and timely response.

Unlike overseas models characterized by scattered cultivation, segmented processing and high supply chain disruption risks, China implements an integrated operation of planting, breeding and processing. Raw materials in core production areas are put into production shortly after harvesting, maximizing the retention of core active ingredients. Leading the world in industrial chain integrity, operational efficiency and risk resistance, China serves as the core hub of the global white kidney bean extract supply chain.

## III. Leading Industry Standards, Mastering Global Pricing Power and Regulatory Discourse

China has completed the transition from an industry follower to a standard leader, establishing a three-level quality control system consisting of national standards, industry standards and enterprise internal control standards, with core indicators stricter than international general standards, setting a global benchmark for industry quality.

The core quality specifications for white kidney bean extract formulated in China, including detailed rules on active ingredient content, hazardous substance limits, and production processes, have become the market access criteria for high-end markets such as the EU, North America, Japan and South Korea, and are widely adopted by leading global manufacturers.

China's market transaction prices and raw material ex-factory prices directly serve as the pricing benchmark for the global market, completely breaking overseas pricing monopolies. China holds the initiative in industry bargaining and standard formulation, occupying a core position in the global value chain and breaking away from the passive situation of low-end OEM and low-price competition.

## IV. Covering Global Markets: A Core Node of International Trade

Chinese white kidney bean extract products cover more than 90% of the world's major consumer markets, with a mature and comprehensive global supply network.

- In high-end markets such as Europe, the US, Japan and South Korea, product penetration is steadily rising, making China the core supplier for local leading brands;
- In emerging markets including Southeast Asia, Latin America and the Middle East, China's market share exceeds 80%, maintaining a dominant position.

Benefiting from the RCEP trade agreement, exports to member countries have grown substantially year after year, with increasingly smooth trade channels. Meanwhile, the continuous explosion of domestic health consumption demand has formed a **dual-support pattern of overseas sales + domestic demand**, undertaking global bulk orders while absorbing industrial production capacity. China has become an irreplaceable core hub connecting raw material supply, processing and global terminal consumption.

## V. High-End Industrial Upgrading, Moving to the Mid-to-High End of the Global Value Chain

China's white kidney bean extract industry has completely escaped the low-end rough processing pattern, completing quality upgrading and structural transformation, with high-end refined products becoming the main force of exports. In 2024, exports of pharmaceutical-grade and high-purity refined products accounted for over 60% of the global similar market, and low-impurity, high-activity products are widely recognized by overseas high-end markets.

The industrial chain continues to extend downstream, with domestic carbohydrate blocker tablets, blood sugar control foods and functional health products sold overseas, greatly enhancing product added value. The industry is gradually phasing out low-end and inferior production capacity, transforming towards refinement, customization and high-end positioning, completely bidding farewell to the low-price involution track and steadily advancing into the mid-to-high end of the global industrial value chain.

## VI. Strong Supply Chain Resilience with Superior Risk Resistance

Relying on full-chain self-control and multi-region decentralized layout, China's white kidney bean extract supply chain boasts outstanding risk resistance, effectively coping with external shocks such as climate fluctuations, logistics blockages, trade changes and policy adjustments. Core planting technologies and extraction processes are independently controllable with extremely low external dependence, supported by sufficient production capacity flexibility and abundant raw material reserves. With standardized industry supervision and a sound quality system, China can ensure long-term stable global supply even amid market fluctuations and changing external environments. The supply chain features strong resilience and high security, consolidating a sustainable and solid industrial position.

## Part 2 China's Core Competitive Advantages in the Global White Kidney Bean Extract Market

This section focuses on distilling the value of collaboration and core competitiveness., focusing on customer-centric priorities including quality, cost, delivery and support, highlighting cooperative benefits and unique competitiveness.

### I. Native High-Quality Resource Advantage: Concentrated Production Areas with Stable Supply Guarantee

As a traditional high-quality agricultural product in China, white kidney bean enjoys unparalleled resource endowments, with the world's most concentrated, largest-scale and highest-quality cultivation bases. The large-scale, base-based and standardized planting model completely eliminates risks of supply disruption, shortages and sharp price hikes, presenting prominent advantages over other countries with scattered cultivation, volatile supply and uneven quality.

China achieves stable bulk supply throughout the year, meeting the long-term, large-volume and customized procurement demands of global major clients. With an extremely high and uncopyable raw material resource barrier, China provides stable and reliable raw material support for global partners.

### II. Full-Chain Efficient Production Capacity Advantage: One-Stop Supply for Cost Reduction and Convenience

The closed-loop operation of the entire industrial chain eliminates redundant intermediate links, realizing direct supply from bases and original factories, avoiding price increases from multi-layer middlemen and simplifying the procurement process. With full-process control from raw material cultivation to finished product delivery, China accepts various orders including conventional specifications, high-purity, customized and small-batch refined production, providing one-stop procurement solutions.

Short production and delivery cycles and fast market response greatly simplify customers' supply chain processes, reducing communication, procurement and time costs, improving overall operational efficiency and adapting to the procurement needs of all types of clients.

### III. Stringent Quality Control Advantage: Full Compliance and Unimpeded Global Access

Adopting a three-level stringent quality control system, China strictly controls the content of α-amylase inhibitor active ingredients and hazardous impurities such as heavy metals, pesticide residues, solvent residues and microorganisms, ensuring qualified product quality and high batch stability. Products fully comply with regulatory requirements of major markets including the EU, the US, Japan and Australia, with complete compliant quality inspection and customs clearance procedures to smoothly break through

various trade barriers.

The industry implements a full-process traceability system covering cultivation, production, processing and inspection, with every batch traceable and verifiable. Quality controllability and safety reliability provide customers with full quality assurance and compliance security.

## IV. Ultimate Cost-Effectiveness Advantage: High Quality at Competitive Prices to Boost Profit Margins

Relying on large-scale cultivation, clustered production and intensive management, the entire chain achieves cost reduction and efficiency improvement, with comprehensive production costs 50%-65% lower than those in Europe, the US, Japan and South Korea, presenting a significant price advantage.

- At the same quality level, Chinese sources are more price-competitive;
- At the same price level, Chinese products feature higher activity and superior quality.

Balancing high quality and favorable prices, China helps global clients control procurement costs, enhance terminal product profit margins and market competitiveness, achieving the procurement goal of low cost and high quality, with unparalleled global cost-effectiveness.

## V. High-End Technical Product Advantage: Flexible Customization for All-Scenario Demands

The industry widely adopts advanced processes such as low-temperature countercurrent extraction, supercritical $CO_2$ extraction, enzymatic hydrolysis-membrane separation combination and nano-embedding, featuring high extraction efficiency and complete retention of active ingredients. The impurity removal rate of high-end products reaches over 99%, greatly improving bioavailability. Active ingredient content can be precisely formulated and exclusive customized products developed according to customer requirements.

Products cover the full range of demands in pharmaceuticals, health products, functional foods, cosmetics and personal care, supporting personalized R&D, small-batch customization and bulk supply. China ranks among the world's top in high-end supply capacity and technical service levels, meeting the differentiated needs of various scenarios and clients.

## VI. Robust Supply Chain Support Advantage: Long-Term Reliability for Worry-Free Cooperation

With a sound domestic industrial layout, production capacity guarantee from leading enterprises, and risk mitigation through multi-region decentralized layout, China has sufficient raw material and production capacity reserves, free from excessive external constraints. The supply chain boasts strong buffering and recovery capabilities amid market fluctuations, logistics changes and trade policy

adjustments, leading the world in supply stability and sustainability.

The industry enjoys standardized development and favorable policy support with a promising long-term outlook. Choosing Chinese white kidney bean extract means partnering with a long-term stable and reliable ally, fully guaranteeing uninterrupted customer production and operation to achieve long-term win-win cooperation.

## Conclusion

China holds an absolutely dominant and irreplaceable core position in the global white kidney bean extract supply chain. With six core advantages in resources, production capacity, quality, cost, technology and support, it has become the preferred partner for global merchants.

In the future, China will continue to deepen industrial development, upgrade processes, strictly control quality and optimize services. With stable supply, excellent quality, efficient delivery and comprehensive support, China will join hands with global partners for win-win development, building a robust, efficient and sustainable global white kidney bean extract supply chain.