

Global L-Glutathione Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global L-Glutathione market size is expected to reach \$ 254 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

Glutathione (abbreviated as GSH) is a small-molecule tripeptide composed of glutamic acid, cysteine, and glycine; it serves as the human body's primary natural antioxidant and intracellular 'scavenger.' Present in every cell, it is primarily responsible for scavenging free radicals, protecting cells from oxidative damage, supporting liver detoxification, boosting immunity, and facilitating anti-aging and skin-whitening processes.

The upstream segment of the glutathione industry primarily involves the supply of core raw materials, including amino acid precursors (glutamic acid, cysteine, and glycine), fermentation media (such as glucose and yeast extract), and core production strains (such as *Saccharomyces cerevisiae* and *Escherichia coli*). Among these, high-efficiency expression strains engineered using synthetic biology techniques represent the highest-value component of the entire industrial chain, as they directly determine fermentation yields and purification costs.

The price of industrial-grade glutathione ranges from \$75 to \$145 per kilogram, while pharmaceutical-grade glutathione can command prices of \$150 to \$300 per kilogram. Global annual sales volume stands in the range of several thousand tons, with the industry maintaining a gross profit margin of approximately 40% to 50%.

As a pivotal antioxidant component within biological systems, the market value chain for glutathione is currently undergoing a transformation driven by a shift in production processes moving from traditional fermentation toward highly efficient enzymatic

catalysis and directed evolution via synthetic biology. The primary driver behind this growth lies in a structural shift on the demand side; glutathione's applications have long since expanded beyond its traditional role as a hepatoprotective agent. Fueled by robust global trends in health and wellness consumption, it has successfully penetrated the sectors of nutritional supplements, functional foods, and high-end cosmetics. Notably, within trending market segments such as 'ingestible beauty' and immune support, glutathione has emerged as a signature ingredient, distinguished by its exceptional antioxidant and skin-brightening properties. Amidst a globally aging population and the increasing democratization of medical aesthetics consumption, glutathione is poised to become the next bioactive raw material following in the footsteps of hyaluronic acid and collagen to hold the potential for a market valuation exceeding 100 billion RMB.

This report studies the global L-Glutathione production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for L-Glutathione and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of L-Glutathione that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global L-Glutathione total production and demand, 2021-2032, (Tons)

Global L-Glutathione total production value, 2021-2032, (USD Million)

Global L-Glutathione production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global L-Glutathione consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: L-Glutathione domestic production, consumption, key domestic manufacturers and share

Global L-Glutathione production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global L-Glutathione production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global L-Glutathione production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global L-Glutathione market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kyowa Hakko Bio, KOHJIN Life Sciences, Meteoric Biopharmaceuticals, Anhui GSH Bio-Technology, Shandong Jincheng Pharmaceutical, Kaiping Genuine Biochemical Pharmaceutical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World L-Glutathione market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global L-Glutathione Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global L-Glutathione Market, Segmentation by Type:

Reduced

Oxidized

Global L-Glutathione Market, Segmentation by Production Process:

Fermentation Method

Enzymatic Synthesis Method

Others

Global L-Glutathione Market, Segmentation by Product Grade:

Pharmaceutical Grade

Food Grade

Cosmetic Grade

Global L-Glutathione Market, Segmentation by Application:

Pharmaceuticals

Health Supplements

Food

Cosmetics

Others

Companies Profiled:

Kyowa Hakko Bio

KOHJIN Life Sciences

Meteoric Biopharmaceuticals

Anhui GSH Bio-Technology

Shandong Jincheng Pharmaceutical

Kaiping Genuine Biochemical Pharmaceutical

Key Questions Answered:

1. How big is the global L-Glutathione market?
2. What is the demand of the global L-Glutathione market?
3. What is the year over year growth of the global L-Glutathione market?
4. What is the production and production value of the global L-Glutathione market?
5. Who are the key producers in the global L-Glutathione market?
6. What are the growth factors driving the market demand?

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