

Global Glutamine (Gln) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Glutamine (Gln) market size is expected to reach \$ 317 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

Glutamine (commonly abbreviated as Gln) is a conditionally essential amino acid that plays a pivotal role in numerous physiological functions, including protein synthesis, immune response, and gut health. Structurally classified among the 20 standard amino acids, Glutamine contains an amide group derived from glutamic acid. It is the most abundant free amino acid in the human body, primarily synthesized in skeletal muscles and transported via the bloodstream to various tissues that require it for metabolic processes. Glutamine is deemed conditionally essential because, under normal circumstances, the body produces adequate amounts. However, during times of physical stress, such as trauma, surgery, infection, or intense exercise, the demand for Glutamine can exceed the body's capacity to produce it, necessitating external supplementation.

In commercial form, Glutamine is typically produced via microbial fermentation, most commonly using genetically modified strains of bacteria such as *Corynebacterium glutamicum* or *Escherichia coli*. The industrial process involves fermenting carbohydrates such as glucose or molasses, followed by purification steps to isolate the amino acid. Glutamine is usually available in powdered form but can also be found in capsules, tablets, and functional food products such as protein shakes and fortified bars.

The primary applications of Glutamine are found in nutraceuticals, clinical nutrition, sports supplements, functional foods, and animal feed additives. In the healthcare and medical nutrition sector, Glutamine is utilized for its therapeutic benefits in treating

conditions such as short bowel syndrome, Crohn's disease, and to mitigate the side effects of chemotherapy. In sports and fitness, it is a popular supplement among athletes and bodybuilders to enhance muscle recovery, reduce fatigue, and prevent muscle catabolism. Its benefits in improving gut barrier integrity and immune system function also make it a valued ingredient in wellness and dietary supplement markets.

The global Glutamine market has witnessed steady growth over the past decade, driven by increasing health consciousness, a growing sports nutrition industry, and heightened demand for immune-boosting products in the wake of the COVID-19 pandemic. The North American and Asia-Pacific regions dominate the market, with Europe following closely behind. Key contributors to growth include rising demand in China and India for both human and animal nutrition applications, as well as technological advancements in amino acid fermentation.

Key Market Drivers

Rising Demand for Nutritional Supplements

The increasing prevalence of lifestyle-related disorders such as obesity, diabetes, and cardiovascular disease has spurred consumer interest in preventive healthcare and nutritional supplementation. Glutamine, with its multifunctional health benefits, fits well into the product portfolios of companies targeting these consumer needs. Additionally, growing awareness of the importance of gut health and immune support has further popularized glutamine supplementation.

Expanding Sports and Fitness Industry

The growth of the sports and fitness industry, driven by rising disposable income, increasing urbanization, and greater access to gyms and health clubs, has significantly influenced the Glutamine market. Athletes and fitness enthusiasts frequently incorporate glutamine supplements into their regimens to aid muscle recovery, reduce exercise-induced stress, and prevent muscle degradation, particularly in endurance sports or resistance training.

Therapeutic Applications in Clinical Nutrition

The use of Glutamine in medical nutrition therapy is another major growth driver. Hospitals and clinical settings use glutamine supplementation in enteral and parenteral nutrition for patients suffering from trauma, burns, or gastrointestinal disorders.

Additionally, Glutamine has shown promising results in reducing mucositis in cancer patients undergoing chemotherapy or radiation therapy.

Shift Toward Preventive Healthcare

As healthcare systems worldwide move from treatment-centric to prevention-centric models, there has been a noticeable rise in demand for functional foods and dietary supplements. Glutamine fits into this trend due to its broad application across multiple wellness domains, including digestive health, metabolic health, and immune modulation.

Global Glutamine core manufacturers include Ajinomoto, Kyowa Hakko Kirin, Daesang, Meihua and Fufeng, etc. The top three manufacturers account for approximately 75% of the global share. The United States is the world's largest market, accounting for nearly 40% of the market.

This report studies the global Glutamine (Gln) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Glutamine (Gln) 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 Glutamine (Gln) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Glutamine (Gln) total production and demand, 2021-2032, (MT)

Global Glutamine (Gln) total production value, 2021-2032, (USD Million)

Global Glutamine (Gln) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Glutamine (Gln) consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Glutamine (Gln) domestic production, consumption, key domestic manufacturers and share

Global Glutamine (Gln) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Glutamine (Gln) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Glutamine (Gln) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Glutamine (Gln) 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 Ajinomoto, Kyowa Hakko Kirin, Daesang, Meihua, Fufeng, 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 Glutamine (Gln) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/MT) 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 Glutamine (Gln) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Glutamine (Gln) Market, Segmentation by Type:

Pharmaceutical Grade

Nutraceutical Grade

Global Glutamine (Gln) Market, Segmentation by Application:

Nutraceutical Use

Pharmaceutical Use

Others

Companies Profiled:

Ajinomoto

Kyowa Hakko Kirin

Daesang

Meihua

Fufeng

Key Questions Answered:

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

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