

Global Glutamine (Gln) Market Growth 2025-2031

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Abstracts

The global Glutamine (Gln) market size is predicted to grow from US\$ 227 million in 2025 to US\$ 295 million in 2031; it is expected to grow at a CAGR of 4.5% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the "Glutamine (Gln) Industry Forecast" looks at past sales and reviews total world Glutamine (Gln) sales in 2024, providing a comprehensive analysis by region and market sector of projected Glutamine (Gln) sales for 2025 through 2031. With Glutamine (Gln) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Glutamine (Gln) industry.

This Insight Report provides a comprehensive analysis of the global Glutamine (Gln) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Glutamine (Gln) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Glutamine (Gln) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Glutamine (Gln) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Glutamine (Gln).

This report presents a comprehensive overview, market shares, and growth opportunities of Glutamine (Gln) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pharmaceutical Grade

Nutraceutical Grade

Segmentation by Application:

Nutraceutical Use

Pharmaceutical Use

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Ajinomoto

Kyowa Hakko Kirin

Daesang

Meihua

Fufeng

Key Questions Addressed in this Report

What is the 10-year outlook for the global Glutamine (Gln) market?

What factors are driving Glutamine (Gln) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Glutamine (Gln) market opportunities vary by end market size?

How does Glutamine (Gln) break out by Type, by Application?

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