

Global Pharmaceutical Grade USP L-Glutamine Market Growth 2026-2032

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Abstracts

The global Pharmaceutical Grade USP L-Glutamine market size is predicted to grow from US\$ 70.81 million in 2025 to US\$ 90.46 million in 2032; it is expected to grow at a CAGR of 3.6% from 2026 to 2032.

L-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, L-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. L-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 L-Glutamine can exceed the body's capacity to produce it, necessitating external supplementation.

In commercial form, L-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. L-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 L-Glutamine are found in nutraceuticals, clinical nutrition, sports supplements, functional foods, and animal feed additives. In the field of medicine,

L-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.

Pharmaceutical Grade USP L-Glutamine refers to the purified form of the amino acid L-glutamine.

The global Pharmaceutical Grade USP L-Glutamine market has witnessed steady growth over the past decade, driven by increasing health consciousness 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.

The use of Pharmaceutical Grade USP L-Glutamine in medical nutrition therapy is 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, Pharmaceutical Grade USP L-Glutamine has shown promising results in reducing mucositis in cancer patients undergoing chemotherapy or radiation therapy.

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. Pharmaceutical Grade USP L-Glutamine fits into this trend due to its broad application across multiple wellness domains, including digestive health, metabolic health, and immune modulation.

Global Pharmaceutical Grade USP L-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 "Pharmaceutical Grade USP L-Glutamine Industry Forecast" looks at past sales and reviews total world Pharmaceutical Grade USP L-Glutamine sales in 2025, providing a comprehensive analysis by region and market sector of projected Pharmaceutical Grade USP L-Glutamine sales for 2026 through 2032. With Pharmaceutical Grade USP L-Glutamine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pharmaceutical Grade USP L-Glutamine industry.

This Insight Report provides a comprehensive analysis of the global Pharmaceutical Grade USP L-Glutamine 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 Pharmaceutical Grade USP L-Glutamine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Pharmaceutical Grade USP L-Glutamine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pharmaceutical Grade USP L-Glutamine 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 Pharmaceutical Grade USP L-Glutamine.

This report presents a comprehensive overview, market shares, and growth opportunities of Pharmaceutical Grade USP L-Glutamine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Purity ?99%

Purity ?99%

Segmentation by Application:

Digestive Health

Metabolic Health

Immune Modulation

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.

MeiHua Holdings Group

Ajinomoto

Kyowa Hakko

Fufeng Group

Daesang

Key Questions Addressed in this Report

What is the 10-year outlook for the global Pharmaceutical Grade USP L-Glutamine market?

What factors are driving Pharmaceutical Grade USP L-Glutamine market growth, globally and by region?

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

How do Pharmaceutical Grade USP L-Glutamine market opportunities vary by end market size?

How does Pharmaceutical Grade USP L-Glutamine break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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