

# Pharmaceutical Grade Amino Acid Market to Reach \$5.76 Billion by 2029 with 7.3% CAGR

*The Business Research Company's  
Pharmaceutical Grade Amino Acid  
Market to Reach \$5.76 Billion by 2029  
with 7.3% CAGR*

LONDON, GREATER LONDON, UNITED  
KINGDOM, September 15, 2025

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What Is The Pharmaceutical Grade Amino Acid Market Size And Growth?

The market size of the pharmaceutical-grade amino acid has seen substantial growth in past years, expanding from \$4.03 billion in 2024 to \$4.34 billion in 2025, reflecting a compound annual growth rate (CAGR) of 7.7%. This growth can be credited to an increase in its use in biopharmaceutical production, growing demand for high-purity injectable solutions, an uptick in its utilization for the stabilization of therapeutic proteins, a growing dependence on sophisticated drug delivery systems, and rising adoption in clinical trial concoctions.

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It will grow to \$5.76 billion in 2029 at a compound annual growth rate (CAGR) of 7.3%.

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*The Business Research  
Company*

The market size for pharmaceutical-grade amino acids is anticipated to witness robust expansion in the upcoming years, reaching \$5.76 billion in 2029 at a CAGR of 7.3%. This rise over the projected period may be ascribed to an increased emphasis on personalized healthcare, amplified investments in the production of biologics, a surge in demand for nutraceuticals enhanced with amino acids, growing applications in regenerative medicine, and an escalating older population. The significant trends over the period forecast could be improved fermentation technologies, creation of bespoke amino acid formulas, advancements in drug delivery systems utilizing amino acids, progression in eco-friendly production procedures, and the emergence of plant-derived sources of amino acids.

Download a free sample of the pharmaceutical grade amino acid market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=27379&type=smp>

**What Are The Current Leading Growth Drivers For Pharmaceutical Grade Amino Acid Market?**  
The pharmaceutical-grade amino acid market is set to grow thanks to heightened demand for nutritional supplements. These supplements, offering crucial nutrients like vitamins, minerals and amino acids, are used to help bolster health and provide necessary nutrition when daily food intake is inadequate. This increased demand is driven by a rising awareness of health among consumers who are actively seeking ways to enhance their wellness and stave off lifestyle related diseases. Pharmaceutical-grade amino acids can be found in these supplements, provided they have been manufactured according to stringent purity, quality, and regulatory norms necessary for medical implementation. These amino acids exhibit high levels of purity, are standardized for consistent effectiveness, and manufactured under Good Manufacturing Practices (GMP) to ensure safe and effective use. An example of this would be when UNICEF, a US-based humanitarian organization, delivered approximately 480 million vitamin A capsules to 71 countries in 2023, as stated in an August 2024 report. This action allowed over 320 million children to receive two doses of vitamin A supplementation, marking a 26% increase from around 252 million children in 2021. The escalating demand for nutritional supplements is therefore cementing the growth of the pharmaceutical-grade amino acid market.

**Which Companies Are Currently Leading In The Pharmaceutical Grade Amino Acid Market?**  
Major players in the Pharmaceutical Grade Amino Acid Global Market Report 2025 include:

- Archer Daniels Midland Company
- Merck KGaA
- Sumitomo Chemical Co. Ltd.
- CJ CheilJedang Corporation
- Evonik Industries AG
- Ajinomoto Co. Inc.
- Fresenius Kabi AG
- Fufeng Group Limited
- Meihua Holdings Group Co. Ltd.
- Daesang Corporation

**What Are The Prominent Trends In The Pharmaceutical Grade Amino Acid Market?**  
The key players in the pharmaceutical-grade amino acid market are concentrating on launching new formulations such as amino acid-based specialty dietary supplements to increase therapeutic effectiveness and meet the rising need for individualized nutrition. Speciality dietary supplements based on amino acids are high-purity mixtures containing specific amino acids that aid in targeted health aspects like muscle restitution, metabolic equilibrium, or neurological assistance. For example, in December 2023, Ajinomoto (Thailand) Co., a nutrition and food business based in Thailand, introduced AminoMOF, a unique dietary supplement intended for senior citizens to bolster muscle power and mobility. This product is enriched with nine crucial amino acids, including high amounts of L-leucine and fish collagen peptides. This makes it particularly valuable in preventing or mitigating problems related to muscle wasting and joints associated with aging. AminoMOF, with its sugar-free and easily assimilable formula, aids the

elderly in preserving their autonomy and physical wellness.

### How Is The Pharmaceutical Grade Amino Acid Market Segmented?

The pharmaceutical grade amino acid market covered in this report is segmented

- 1) By Type: L-Form Amino Acids, D-Form Amino Acids, Non-Essential Amino Acids, Essential Amino Acids
- 2) By Formulation Type: Powders, Capsules, Tablets, Liquids, Injectables
- 3) By Distribution Channel: Online Retail, Offline Retail, Direct Sales, Wholesale Distributors, Healthcare Institutions
- 4) By Application: Hormone, Antibacterial Agents, Anti-Cancer Drugs, Nutrition, Other Applications
- 5) By End-User: Pharmaceutical Companies, Nutraceutical Companies, Food Manufacturers, Cosmetic Manufacturers, Academic And Research Institutions

### Subsegments:

- 1) By L-Form Amino Acids: L-Glutamine, L-Leucine, L-Arginine, L-Lysine, L-Valine
- 2) By D-Form Amino Acids: D-Alanine, D-Serine, D-Cysteine, D-Aspartic Acid, D-Phenylalanine
- 3) By Non-Essential Amino Acids: Alanine, Asparagine, Aspartic Acid, Glutamic Acid, Serine
- 4) By Essential Amino Acids: Histidine, Isoleucine, Leucine, Lysine, Methionine, Phenylalanine, Threonine, Tryptophan, Valine

View the full pharmaceutical grade amino acid market report:

<https://www.thebusinessresearchcompany.com/report/pharmaceutical-grade-amino-acid-global-market-report>

### Which Is The Dominating Region For The Pharmaceutical Grade Amino Acid Market?

In the 2025 Global Market Report for Pharmaceutical Grade Amino Acid, North America emerged as the most dominant region in 2024. However, Asia-Pacific is forecasted to outpace all other regions in the estimated period. The report encompasses the regions of Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: [saumyas@tbrc.info](mailto:saumyas@tbrc.info)

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Oliver Guirdham

The Business Research Company

+44 7882 955267

[info@tbrc.info](mailto:info@tbrc.info)

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