

Amino Acids Market Report by Type (Glutamic Acids, Lysine, Methionine, Threonine, Phenylalanine, Tryptophan, Citrulline, Glycine, Glutamine, Creatine, Arginine, Valine, Leucine, Iso-Leucine, Proline, Serine, Tyrosine, and Others), Raw Material (Plant Based, Animal Based), Application (Animal Feed, Food, Healthcare), and Region 2024-2032

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Abstracts

The global amino acids market size reached 11.4 Million Tons in 2023. Looking forward, IMARC Group expects the market to reach 16.8 Million Tons by 2032, exhibiting a growth rate (CAGR) of 4.2% during 2024-2032. The increasing utilization of amino acids in formulating numerous skincare products, rising adoption of plant-based diets, and the expanding use of fermentation techniques, genetic engineering, and enzymatic processes are some of the major factors propelling the market.

Amino acids are fundamental building blocks of proteins that contain amino and carboxylic functional groups attached to a central carbon atom. They possess distinct physical and chemical properties, which include polarity, acidity or basicity, and unique side chains. They act as coenzymes that facilitate enzymatic reactions and drive metabolic processes in the body. They contribute to the production of antibodies and immune system components, aiding in defense against infections. They are widely employed in medical treatments for conditions like phenylketonuria (PKU) and certain metabolic disorders.

The expansion of the sports industry and the increasing participation of individuals in fitness activities is driving the demand for amino acid supplements, particularly branched-chain amino acids (BCAAs), which aid in muscle recovery and development.

Apart from this, the increasing utilization of amino acids in formulating numerous skincare products for their moisturizing, anti-aging, and skin barrier-enhancing properties is propelling the market growth. Furthermore, various industry players are continuously investing in research and development (R&D) activities to innovate and develop new amino acid products with enhanced functionalities and applications. Moreover, they are exploring new geographic markets and expanding their distribution networks to reach a broader customer base.

Amino Acids Market Trends/Drivers:

Growing health and wellness awareness

The rising awareness among individuals about the importance of maintaining health and wellness is positively influencing the market. Additionally, the growing health concerns and the increasing inclination of individuals towards a balanced lifestyle are catalyzing the demand for nutritional supplements and functional foods. Amino acids are fundamental for muscle development, immune system support, and overall well-being. Apart from this, the rising emphasis on preventive healthcare and the desire for enhanced physical performance are driving the demand for amino acid-rich products. Furthermore, the rising adoption of plant-based diets and the preference for natural and sustainable sources of nutrition are driving the demand for amino acid supplements derived from plant sources.

Advancements in medical therapies and pharmaceuticals

The increasing use of amino acids in medical therapies and pharmaceuticals is driving their adoption across the globe. Additionally, the development of amino acid-derived biopharmaceuticals, such as antibody-drug conjugates, is enhancing drug delivery and targeting mechanisms, which is offering a favorable market outlook. Apart from this, amino acid-depleting treatments help inhibit cancer cell growth while sparing healthy cells, which promotes their utilization in disease management. Moreover, the advent of precision medicine is catalyzing the demand for personalized amino acid-based treatments tailored to individual patient profiles.

Technological advancements in amino acid production

Technological advancements in amino acid production represent another major factor stimulating the market growth. Additionally, the increasing use of fermentation techniques, genetic engineering, and enzymatic processes are improving amino acid production and enhancing yields, purity, and sustainability. Apart from this, the

integration of advanced technologies aids in lowering production costs and enabling the creation of novel amino acid derivatives with enhanced functionalities. Furthermore, the rising use of chromatography and membrane filtration methods is enabling the isolation of pure amino acids from complex mixtures, ensuring higher product quality and expanding their applications in the cosmetics industry and biofuel production.

Amino Acids Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global amino acids market report, along with forecasts at the global and regional levels for 2024-2032. Our report has categorized the market based on type, raw material and application.

Breakup by Type:

Glutamic Acids

Lysine

Methionine

Threonine

Phenylalanine

Tryptophan

Citrulline

Glycine

Glutamine

Creatine

Arginine

Valine

Leucine

Iso-Leucine

Proline

Serine

Tyrosine

Others

Glutamic acids holds the largest market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes glutamic acids, lysine, methionine, threonine, phenylalanine, tryptophan, citrulline, glycine, glutamine, creatine, arginine, valine, leucine, iso-leucine, proline, serine, tyrosine, and others. According to the report, glutamic acids represented

the largest segment due to its widespread utilization across various industries. For instance, the increasing use of glutamic acid in the form of monosodium glutamate (MSG) in the food and beverage (F&B) industry is positively influencing the market. MSG imparts an umami taste and enhances the savory flavors of various dishes. Additionally, the rising utilization of glutamic acid in preparing various processed foods, snacks, sauces, and condiments is creating a positive market industry outlook. Furthermore, the widespread adoption of glutamic acid in the pharmaceutical and biotechnology sectors for the synthesis of various pharmaceutical compounds, amino acid-based drugs, and peptide-based therapies is driving the market. Moreover, its increasing use in drug formulation and therapeutic applications is catalyzing its demand in these industries.

Breakup by Raw Material:

Plant Based
Animal Based

Plant based dominates the market

The report has provided a detailed breakup and analysis of the market based on the raw material. This includes plant based and animal based. According to the report, plant based accounts for the majority of the market share due to the evolving consumer preferences and sustainability concerns. Additionally, the rising health consciousness among individuals and the growing environmental concerns are catalyzing the demand for sustainable and cruelty-free alternatives to animal-derived products. Apart from this, the environmental impact of traditional animal farming, including land use, greenhouse gas emissions, and resource consumption is promoting eco-friendly options. Furthermore, the increasing adoption of vegetarianism and veganism is driving the demand for plant-based products. Furthermore, continuous innovations in extraction methods, such as fermentation and enzymatic processes, are allowing for the efficient production of amino acids from plant sources. Moreover, the rising utilization of plant-based amino acids across different industry verticals, such as in food and beverages, cosmetics, and pharmaceuticals, is favoring the industry growth.

Breakup by Application:

Animal Feed
Food
Healthcare

Animal feed holds the largest share in the market

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes animal feed, food, and healthcare. According to the report, animal feed accounted for the largest market share due to the escalating demand for high-quality and nutritionally balanced livestock and poultry nutrition. Amino acids are essential nutrients required for proper growth, development, and overall health of animals. Additionally, the rising demand for animal-based products, such as meat, milk, and eggs, is driving the need for efficient and sustainable livestock production. Apart from this, the increasing consumption of supplementation is enabling precise control over protein intake, optimizing animal performance and reducing the risk of excess nutrient excretion, which is augmenting the market growth. Amino acid supplementation assists in formulating balanced diets that adhere to regulatory guidelines while ensuring the welfare and health of animals. High-quality amino acid-enriched feed contributes to improved animal health, reduced antibiotic use, and enhanced product quality.

Breakup by Region:

Asia Pacific

Europe

North America

Latin America

Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest amino acids market share

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, Europe, North America, Latin America, and Middle East and Africa. According to the report, Asia Pacific dominates the market due to the abundance of plant and animal-based resources for amino acid production. Additionally, rapid urbanization, population growth, and inflating disposable income levels of individuals are driving the demand for meat products. This, in turn, is catalyzing the demand for animal feed, which incorporates amino acids to enhance livestock growth and product quality. Apart from this, various universities, research institutions, and biotech companies in the region are collaborating to innovate production methods, develop novel amino acid derivatives, and explore applications in various industries.

Furthermore, the strategic geographical location of Asia Pacific facilitates trade and export opportunities. Moreover, the closer proximity of various countries in the Asia Pacific to major markets, such as North America and Europe, is enabling the efficient distribution of amino acid products to global consumers.

Competitive Landscape:

Amino acid manufacturers are continuously expanding their product portfolios by introducing new formulations, blends, and derivatives to cater to a wider range of industries and customer needs. Additionally, they are exploring sustainable sourcing options for amino acid raw materials to meet the growing demand for eco-friendly and ethically sourced ingredients. Apart from this, many companies are actively investing in ongoing research and development (R&D) efforts to innovate and develop new amino acid products with enhanced functionalities and applications. Furthermore, they are adopting cutting-edge technologies for efficient production, quality control, and analysis, enabling them to deliver high-quality products and meet stringent industry standards.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

AjinomotoCo., Inc.
Kyowa Hakko Bio. Co. Ltd.
Amino GmbH
Bill Barr & Company
Iris Biotech GmbH
Taiwan Amino Acids Co. Ltd.
BI Nutraceuticals
Sichuan Tongsheng Amino acid Co., Ltd
Wacker Chemie AG
CJ CheilJedang Corp.
Donboo Amino Acid Co., Ltd.
Evonik Industries AG
Archer-Daniels-Midland Company

Recent Developments:

In February 2021, AMINO GmbH announced the inauguration of its new quality center in Frellstedt, Germany. This strategy emphasizes the dedication of the company to upholding top-notch standards in the amino acids market.

In July 2021, Ajinomoto Co., Inc. released Mankai®, a next-generation vegetable drink

made with a next-generation food resource packed with 60 nutrients, including proteins, vitamins, minerals, and dietary fiber.

Key Questions Answered in This Report

1. What was the size of the global amino acids market in 2023?
2. What is the expected growth rate of the global amino acids market during 2024-2032?
3. What are the key factors driving the global amino acids market?
4. What has been the impact of COVID-19 on the global amino acids market?
5. What is the breakup of the global amino acids market based on the type?
6. What is the breakup of the global amino acids market based on the raw material?
7. What is the breakup of the global amino acids market based on the application?
8. What are the key regions in the global amino acids market?
9. Who are the key players/companies in the global amino acids market?

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