

# **United Kingdom Amino Acids Market, By Type (Glutamic Acid, Lysine, Tryptophan, Methionine, Phenylalanine, and Others), By Source (Plant-Based Amino Acids, Animal-Based Amino Acids, and Synthetic Amino Acids), By Application (Nutraceuticals & Dietary Supplements, Infant Formula, Food Fortification, Convenience Food, and Others) By Region, Competition, Forecast, and Opportunities, 2028**

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## **Abstracts**

United Kingdom amino acids market is anticipated to grow significantly rate in the projected period of 2028. The components of proteins and amino acids are crucial to many biological processes. According to the Food and Drink Federation, the food and drink sector is the single largest employer in the UK manufacturing sector. Around 440,000 people across the UK are employed in jobs associated with food and drink manufacturing and sales. The food and drink sector had an annual turnover in 2020 of USD 145 billion. They are also the building blocks of proteins. They are frequently employed in sectors including food and beverage, pharmaceuticals, animal feed, and cosmetics since they are crucial for the growth and development of living creatures. The need for diets high in protein, growing health consciousness, and technological improvements are all projected to cause the amino acid market in the United Kingdom to expand dramatically in the forthcoming years. Amino acids are also used in the pharmaceutical industry for a range of applications, including drug development, vaccine production, and as a component of parenteral nutrition. With advances in biotechnology and growing demand for personalized medicine, the use of amino acids in pharmaceuticals is expected to increase. As per the European Federation of

Pharmaceutical Industries and Associations, in 2019, the pharmaceutical industry invested more than USD 41,660 million in R&D in Europe.

The food and beverage industry are the largest consumer of amino acids, accounting for a significant share of the market. Amino acids are used as food additives in various products such as sports drinks, energy bars, and supplements. They are also used as flavor enhancers, emulsifiers, and stabilizers in processed foods. The demand for amino acids in the food and beverage industry is expected to increase due to the growing demand for healthy and functional foods. As per Food Drink Europe, the EU food and drink industry employs 4.6 million people, generates a turnover of USD 1.21 trillion and USD 253.17 billion in value-added, making it one of the largest manufacturing industries in the EU.

The cosmetics industry is another important consumer for amino acids, particularly to produce hair and skin care products. Amino acids are used in cosmetics as moisturizers, conditioners, and anti-aging agents. The demand for amino acids in the cosmetics industry is expected to increase due to the growing demand for natural and organic cosmetics. As per Cosmetics Europe, the Personal Care Association, valued at USD 88.03 billion at a retail sales price in 2021, the European cosmetics and personal care market is one of the largest market for cosmetic products in the world. The largest national markets for cosmetics and personal care products within Europe are Germany, France, Italy, the UK, Spain, and Poland. Due to their advantageous characteristics, enzymes have been utilized in the cosmetics industry for several years. Pumpkin-derived enzymes are used in cosmetics to promote smooth skin. Besides that, enzymes are included in formulas that fight acne, aging, and pigmentation. Moreover, enzymes are used to exfoliate the skin, stop the formation of free radicals that harm the body and skin, maintain firm skin, and have antibacterial qualities. In addition, the amino acids market has seen significant technological advancements in recent years, including the development of new fermentation and bio catalysis techniques. These advancements have led to increased production efficiency, reduced costs, and expanded applications for amino acids, further driving the market growth.

One of the other main factors driving the growth of the amino acid market in the United Kingdom is the increasing popularity of plant-based diets. Many people are turning to vegetarian and vegan diets, which can be low in certain essential amino acids. As a result, there is a growing demand for plant-based amino acid supplements, which can help ensure that individuals on these diets are getting all the amino acids they need. As per the Vegetarian Society UK, 4.5% of the UK population has a vegetarian or vegan diet, and there are just over 3 million vegetarians and vegans (adults and children over

the age of 18 months) in the UK. Further, in 2020, consumers in the United Kingdom spent almost USD 663 million on meat-free food items. This is almost twice the spending of 2016.

The animal feed industry is also a significant consumer of amino acids, particularly in the production of poultry and swine feed. Amino acids are added to animal feed to improve the quality and quantity of meat production. The demand for amino acids in the animal feed industry is expected to increase due to the growing demand for animal protein and the increasing adoption of intensive animal farming practices. According to the European Feed Manufacturers' Federation (FEFAC), EU compound feed production for farmed animals in 2020 is estimated at 164.90 million tons, an incremental increase of 0.1% compared to 2019. The use of enzymes as feed additives has a twenty-year history. Enzymes are employed in the feed business to improve nutrient digestibility, with a particular emphasis on reducing the detrimental effects of non-starch polysaccharides (NSP). Furthermore, the increasing use of amino acids in sports nutrition products is propelling the market. Supplements for sports nutrition are becoming more and more popular, especially among athletes and anyone who engages in strenuous physical activity. One of the main factors driving the expansion of the sports nutrition industry, which promotes the use of amino acids in the sector, is the increasing emphasis on maintaining health and fitness. Other important factors include the expanding involvement in sports, health clubs, sports clubs, and gyms. Dietary supplements are a common practice among athletes who regularly train or compete. One of the most well-liked dietary supplements marketed to athletes and anyone physically active is protein. Amino acids improve performance in several ways, including boosting the release of anabolic hormones, altering the way that fuel is used when exercising, avoiding the negative consequences of overtraining, and minimizing mental tiredness.

The pharmaceutical industry is another chief consumer of amino acids, particularly to produce drugs and nutritional supplements. Amino acids are used as precursors for the synthesis of various drugs and are also used in the production of parenteral nutrition solutions. According to the Association of the British Pharmaceutical Industry, the pharmaceutical industry spends USD 160 billion per year on research and development. The demand for amino acids in the pharmaceutical industry is expected to increase due to the growing prevalence of chronic diseases and the increasing demand for personalized medicine.

## Growing demand for Dietary Supplements

Amino acids are essential building blocks of protein, and they are commonly used in dietary supplements to support muscle growth and recovery. As people become more health conscious and interested in sports and fitness, the demand for dietary supplements has increased. This trend is expected to continue, driving growth in the amino acid market. According to the Health Food Manufacturers' Association (HFMA), there has been a 19% increase in supplement users in the UK, and over 71% of adults are taking food supplements. Among the new users, vitamin D topped the list of the most common dietary additions at 63%, followed by vitamin C at 39%. The United Kingdom's dietary supplement market is expected to grow at a rapid pace over the next few years, driven by increasing demand for healthy and natural products. Moreover, in recent years, there has been a growing demand for dietary supplements that contain amino acids. This trend can be attributed to several factors, including the rise of the health and wellness movement, increased awareness of the importance of protein in the diet, and a growing interest in sports and fitness.

## Market Segmentation

United Kingdom (U.K.) amino acids market is segmented into type, source, application, region, and company. Based on type, the market is divided into glutamic acid, lysine, tryptophan, methionine, phenylalanine, and others. Based on source, the market is divided into plant-based amino acids, animal-based amino acids, and synthetic amino acids. Based on application, the market is bifurcated into nutraceuticals & dietary supplements, infant formula, food fortification, convenience food, and others. Based on region, the U.K. dietary supplement market is segmented into Scotland, South-East, London, South-West, East-Anglia, Yorkshire & Humberside, and East Midlands, and the rest of the United Kingdom.

## Company Profiles

Archer Daniels Midland (UK) Limited's, Evonik Industries AG, Koninklijke DSM N.V., Kemin Industries, Sigma-Aldrich, AMINO GmbH, Glanbia Performance Nutrition (UK) Limited, Daesang Europe B.V., Sumitomo Chemical (UK), and Novus Europe NV.

## Report Scope:

In this report, United Kingdom amino acids market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### United Kingdom Amino Acids Market, By Type:

Glutamic Acid

Lysine

Tryptophan

Methionine

Phenylalanine

Others

### United Kingdom Amino Acids Market, By Source:

Plant-Based Amino Acids

Animal-Based Amino Acids

Synthetic Amino Acids

### United Kingdom Amino Acids Market, By Application:

Nutraceuticals & Dietary Supplements

Infant Formula

Food Fortification

Convenience Food

Others

### United Kingdom Amino Acids Market, By Region:

Scotland

South-East

London

South-West

East-Anglia

Yorkshire & Humberside

East Midlands

Rest of United Kingdom

Competitive landscape

Company Profiles: Detailed analysis of the major companies in United Kingdom amino acids market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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