

Lysine Market: Current Analysis and Forecast (2025-2033)

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Abstracts

Lysine is an essential amino acid in many important human functions, including the synthesis of proteins, the formation of collagen, helping to absorb calcium, and supporting the synthesis of hormones, enzymes, and antibodies. Furthermore, it aids in the healing of body parts after injuries or sickness, it is used for pig and poultry feeding. Supplementation with lysine in animal feed enhances nutrition and growth, as well as cost savings in the production of feeds. Fermentation using microorganisms such as *Corynebacterium glutamicum* is the usual procedure of production.

The Lysine Market is expected to grow with a significant CAGR of 7.51% during the forecast period (2025- 2033F). The Lysine market has seen rambling growth in recent years, driven by rising global meat consumption, increased demand for high-quality animal nutrition, and the cost-effectiveness of lysine in feed formulations. As the demand for global meat is increasing day by day, the need for lysine is also increasing. Additionally, lysine has discrete potential health benefits for humans, which include supporting the immune system and helping to prevent cold sores caused by the herpes virus. Additionally, advancements in fermentation technology and growing awareness about sustainable livestock farming are further fueling the expansion of the lysine industry worldwide.

For instance, on May 29, 2023, Evonik introduced a new generation of Biolys®, a proven source of lysine for livestock feeds. The novel formulation product contains valuable nutrients and energy resulting from its fermentation process, which benefits livestock such as swine or poultry. By formulation, the revised Biolys® contains 62.4 percent L-lysine (an 80 percent ratio to Lysine HCl) compared to the current version's 60 percent L-lysine (a 77 percent ratio to Lysine HCl).

On May 25, 2022, Terremoto Biosciences, a biotechnology company that leveraged the power of lysine-based covalency to develop optimized medicines, announced to raised USD 75 million in a Series A financing. The round was co-led by OrbiMed and Third Rock Ventures. Proceeds from the financing will be used to advance Terremoto's lysine-targeted covalency platform and develop best-in-class therapies against known drug targets, as well as first-in-class medicines against the previously undruggable.

Based on type, the market is segmented into Lysine Hydrochloride, Lysine Monohydrate, and others. The Lysine Hydrochloride market dominated the market in 2024. The lysine hydrochloride segment is increasing expeditiously in the lysine market due to its high purity, excellent bioavailability, and effectiveness in animal nutrition. It is used immensely in pigs and poultry feed, which helps to improve growth rates and efficiency. These are mainly preferred by the poultrymen, feed manufacturers, and farmers because of their convenience of handling, storing, and mixing with other feed components. With the growing global demand for meat, especially in developing regions, the need for efficient additives like lysine hydrochloride increases. Its immense benefits and consistent quality have made it the key choice in modern livestock farming.

Based on application, the market is segmented into animal feed, food & dietary supplements, and pharmaceuticals. The animal feed segment is witnessing bolstered growth in the lysine market mainly due to the growing global demand for meat, dairy, and poultry products. With the growing population, livestock farming has become more intensive to meet this escalating demand, there is a greater need for efficient, high-quality feed that promotes faster growth and better animal health. Lysine can't be produced on its own in the animal body, so it is added to feed to improve protein synthesis and growth rates. Further, it may act as a protein substitute, as its use may help to reduce the amount of expensive protein sources like soybean meal, making feed more cost-effective. This makes lysine essential in modern animal nutrition.

Based on the form, the market is segmented into powder, liquid, and granules. The powder segment is expected to grow with a significant CAGR during the forecast period (2025-2033) because it offers convenience, stability, and ease of use in animal feed formulations. Furthermore, it has a longer shelf life, which makes it a suitable choice for feed manufacturers and livestock farmers. As demand for efficient and cost-effective feed additives rises, powdered lysine stands out for its reliable performance and lower risk of spoilage. These

advantages make it the preferred form in large-scale animal farming and feed production operations.

For a better understanding of the market, the growth of the Lysine market is analyzed based on their worldwide demand in regions such as North America (U.S., Mexico, and the Rest of North America), Europe (Germany, France, U.K., Spain, Italy, Rest of Europe), Asia-Pacific (China, Japan, India, Rest of Asia-Pacific), Rest of World. The Asia Pacific region is anticipated to see a major boost in the lysine market due to its large and rapidly growing population, rising meat consumption, and expanding livestock industry. Countries like China, India, and Vietnam are increasing meat and poultry production to meet domestic demand, which drives the need for high-quality animal feed. In addition, improving income levels and changing diets are pushing consumers toward more protein-rich foods. Governments in the region are also supporting modern farming practices, which include the use of amino acid supplements like lysine to boost animal health and productivity. These factors make Asia Pacific a key growth hub.

Some of the major players operating in the market include Global Bio-chem Technology Group Company Limited, Ajinomoto Co., Inc., CJ CheilJedang Corp., ADM Animal Nutrition, Inc. (Archer-Daniels-Midland Company), Evonik, Fufeng USA Incorporated, KYOWA HAKKO BIO CO., LTD., Cargill, Incorporated, Meihua Holdings Group Co., Ltd., and Fagron Sterile Services.

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