

Enzymes Market Report and Forecast 2025-2034

Market Report | 2025-08-13 | 171 pages | EMR Inc.

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Report description:

The global enzymes market size was valued at approximately USD 10.88 Billion in 2024. The market is projected to grow at a CAGR of 6.70% during the forecast period of 2025-2034 to reach around USD 20.81 Billion in 2034.

Enzymes are tiny molecules that act as biological catalysts, speeding up chemical reactions in living organisms. They are essential for life, playing a crucial role in everything from digestion and metabolism to DNA replication and muscle movement. Most enzymes are made up of long chains of amino acids folded into specific shapes. This shape determines the enzyme's function and which molecules it can interact with.

The global enzymes market growth is being driven by the growing demand for enzymes in various end-use industries like food and beverage, biofuel, animal feed, home cleaning, and others, as it helps manufacturers increase their production, and enhance the quality of their final products. With the growing consumer shift towards nutritious food and beverage products, the demand for enzymes, especially in processed and flavoured foods applications, has increased.

Key Trends and Developments

Increasing demand for enzymes in various fields; growing health consciousness; and the rising demand for nutritious products are positively impacting the global enzyme market growth.

October 25, 2023

BASF unveiled a new generation of Laveryg enzymes for detergents and cleaners at the SEPAWA Congress in Berlin, enhancing its enzyme technology portfolio.

April 12, 2022

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Codexis and Molecular Assemblies advanced their partnership, engineering enzymes for DNA synthesis with a Key Customer Program launch later this year using evolved DNA polymerase.

February 15, 2022

Kerry announced acquisitions of biotech innovator c-LEcta and Mexican enzyme manufacturer Enmex, expanding its biotech expertise, technology portfolio, and manufacturing capabilities.

June 14, 2021

ProAct 360 which revolutionises poultry protease technology, and enhances feed efficiency, affordability, sustainability, and growth performance, was commercially released by DSM-Novozymes Alliance.

Increasing emphasis on sustainability

Eco-friendly enzymes are gaining popularity for their ability to decrease usage and improve energy efficiency across industries

Advancements in biotechnology

Biotechnological innovations are leading to the creation of effective enzymes that are finding new uses in the pharmaceuticals, biofuels and waste management sectors

Increasing focus by consumers on health and wellness

There is a surge in demand for enzymes in supplements and functional foods, fuelled by consumers' increasing awareness of health, nutrition and natural well-being solutions

Rising importance of enzymes in industrial processes

Enzymes play a vital role in bioprocessing by facilitating the production of biofuels, paper, and textiles, among others. Their capacity to catalyse processes at temperatures and pH levels helps reduce energy consumption and environmental impact significantly

Global Enzymes Market Trends

Technological advancements are poised to significantly boost the global enzyme market size in the coming years, driven by the rising popularity of eco-friendly technologies, featuring enhanced product attributes and overall performance improvements. The market expansion is also fuelled by the growing application of enzymes in sectors like food and animal feed, textiles, detergents, and biofuel production. Additionally, the enzymes market revenue is expected to benefit from the increasing prevalence of major health issues, such as digestive disorders and inflammation, coupled with a heightened demand for renewable energy sources like biofuels.

The increased product demand across the globe is also supported by the applications of enzymes in bakery and brewing applications. To improve fruit quality and yield, enzymes are utilised in the creation of fruit juices. The rising consumer awareness regarding health has led to increased consumption of functional food items, leading to the growing demand for enzymes in the food and beverage industry.

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Global Enzymes Market Segmentation

"Global Enzymes Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Protease
- Amylase
- Lipase
- Cellulase

Market Breakup by Industry Type

- Industrial
- Special

Market Breakup by Application

- Cleaning Product
- Food and Beverage
- Biofuel Production
- Animal Feed
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Amylase to hold a dominating position in the market

Amylase is a highly valued enzyme across various sectors, playing a crucial role in converting starches into sugars. It covers a substantial portion of the enzymes market share as it is extensively utilised in the food and beverage sector, particularly in brewing and baking, where its starch-breaking properties are essential. Amylase also plays a key role in the detergent sector by aiding in the removal of starchy stains and contributes significantly to the bioethanol sector by transforming starches into fermentable sugars.

Similarly, protease and lipase are enzymes with wide-ranging applications. Protease is indispensable in industries such as detergents, pharmaceuticals, and food, owing to its protein-digesting capabilities. Meanwhile, lipase is utilised in food processing, detergents, and the pharmaceutical sector, highlighting its versatility and importance in various fields.

The food and Beverage sector is likely to be the leading user of enzymes in the coming years

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The food and beverage sector heavily relies on enzymes for different processes. Enzymes play a crucial role in breaking down starches into sugars for brewing and baking, enhancing the texture and flavour of dairy products, improving dough stability, extending the shelf life in baking, and aiding in the production of fruit juices and wine.

Utilising enzymes not only boosts process efficiency and enhances product quality but also promotes sustainability by reducing energy and water consumption, along with minimising waste production.

Meanwhile, in the biofuel sector, enzymes are vital for producing bioethanol and biodiesel. Their use enables the conversion of waste materials and non-food biomass into energy, thereby fostering eco-friendly fuel options.

In the animal feed sector, enzymes enhance feed value and nutrient digestibility. For instance, phytases are employed to break down acid in grains, making phosphorus more accessible to animals for their growth and bone strength development.

Global Enzymes Market Analysis by Region

The industrial enzymes sector in North America is distinguished by its extensive applications across various industries. Innovations in technology have expanded the availability of enzymes for diverse uses, including in the food and beverages, detergents, textiles, paper, pulp, and animal feed sectors.

Growing concerns over obesity in the region have heightened consumer awareness towards health, prompting a surge in demand for natural and clean-label ingredients, particularly in food-related applications.

Meanwhile, the Asia Pacific enzymes market size is expected to register rapid growth during the forecast period owing to the region's large population base, coupled with growing awareness about health and nutrition. Additionally, the region has been going through major industrial, pharmaceutical, and biotechnological developments, which further bolsters the opportunities for the market.

Competitive Landscape

Major players in the enzymes market are increasing investment in research and development for the improvement of products:

Other key players in the global enzymes market are Novozymes A/S, MetGen Oy. Cooperation, Aum Enzymes, F. Hoffmann-La Roche Ltd, BASF SE, ABF Ingredients Limited, Codexis, Inc., Creative Enzymes, Chr. Hansen Holding A/S, Enzyme Solutions, Inc., and International Flavors & Fragrances Inc., among others.

Leading players in the enzymes market are dedicating resources to research and development in order to innovate enzymes that offer improved features, increased effectiveness, and wider uses. Through advancements in biotechnology, their goal is to produce enzyme solutions that are not only more sustainable and cost-efficient but also exhibit excellent performance. This involves modifying enzymes to function optimally in environments leading to reduced energy usage and promoting conscious practices.

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