

Enzymes Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global enzymes market size reached US\$ 12.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 18.1 Billion by 2028, exhibiting a growth rate (CAGR) of 6.06% during 2023-2028.

Enzymes are biological catalysts that accelerate the rate of a chemical reaction in the cell. They help build metabolism and break down fats, proteins and carbohydrates to support digestion. They also assist in building muscles, nerve function, and removing toxins from the body. In addition, they aid in the conservation and transformation of chemical energy, construction of cellular macromolecules from smaller precursors, and prevention of diseases, such as albinism and phenylketonuria. As enzymes are used in the fermenting of wine, leavening of bread, curdling of cheese, and brewing of beer, they find extensive applications in food and beverage (F&B), bioenergy, pharmaceutical, and biotechnology industries across the globe.

Enzymes Market Trends:

The growing demand for enzymes in the pharmaceutical industry to synthesize intermediates in active pharmaceutical ingredient (API) production for effective medications represents one of the key factors driving the market. Moreover, there is a rise in the utilization of enzymes in the food and beverage (F&B) industry to convert starch into glucose. This, along with the increasing application of enzymes in protein engineering technology, is strengthening the growth of the market. In addition, there is a rise in the employment of enzymes to produce biofuels as it is less energy-intensive and more environmental-friendly. This, coupled with the growing demand for renewable energy sources like biofuels, is positively influencing the market. Besides this, the

escalating demand for enzymes in detergents to remove fats and oil stains is offering lucrative growth opportunities to industry investors. Apart from this, the rising usage of enzymes in the paper and pulp industry to improve bleaching properties is projected to bolster the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global enzymes market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, source, reaction type and application.

Breakup by Type:

- Protease
- Carbohydrase
- Lipase
- Polymerase and Nuclease
- Others

Breakup by Source:

- Microorganisms
- Plants
- Animals

Breakup by Reaction Type:

- Hydrolase
- Oxidoreductase
- Transferase
- Lyase
- Others

Breakup by Application:

- Food and Beverages
- Household Care
- Bioenergy
- Pharmaceutical and Biotechnology

Feed
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced Enzyme Technologies Limited, Amano Enzyme Inc., Associated British Foods plc, Aumgene Biosciences, BASF SE, Chr. Hansen Holding A/S, Codexis Inc., DuPont de Nemours Inc., Koninklijke DSM N.V., Novozymes A/S, Novus International Inc. (Mitsui & Co. Ltd.) and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global enzymes market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global enzymes market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the source?

What is the breakup of the market based on the reaction type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global enzymes market and who are the key players?

What is the degree of competition in the industry?

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