

Biocatalysts Market Growth Analysis - Forecast Trends, Market Size, Share and Outlook (2025-2034)

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Report description:

The global biocatalysts market size reached a volume of about 140.94 Kilo Tons in 2024 . The market is further expected to increase at a CAGR of about 6.40% between 2025 and 2034 to reach a volume of approximately 262.09 Kilo Tons by 2034 .

Europe is the largest market on a regional basis, accounting for more than one-third of the total global share. This can be due to stringent policy legislation in a number of European countries for increasing the use of sustainable raw materials rather than fossil fuels and reducing greenhouse gas (GHG) emissions. Hydrolases are currently the largest type of biocatalysts, accounting for the majority of the overall biocatalysts market share.

Changing lifestyles and rising per capita income, which has contributed to a change in eating habits, are driving the demand for a healthy diet and eating. This, in effect, will boost the biocatalysts market's growth prospects as the food industry uses biocatalysts like carbohydrates, proteases, and lipase because of their properties, like anti-staining and softening, which improve the shelf life of food products and beverages.

Market Segmentation

Biocatalysts refer to enzymes that help to alter or increase the rate of chemical reactions, including the manufacturing of alcohol by fermentation. They are organic and biodegradable and have the ability to work in mild conditions. As a result of these advantages, biocatalysts are commonly used in food and beverage, pharmaceutical, textile, and soap and detergent industries throughout the world. This can also be accredited to the crucial role of biocatalysts in reducing costs, increasing process performance, and designing new environmentally sustainable processes. The biocatalysts that are widely used are bacteria, proteases, lipase, amylase, and cellulose.

On the basis of type, the biocatalysts market can be divided into:

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- Hydrolases
- Oxidoreductases
- Transferases
- Others

They find applications in the following sectors:

- Food and Beverages
- Cleaning Agent
- Biofuel Production
- Agriculture and Feed
- Biopharmaceuticals
- Others

Based on source, the biocatalysts market can be divided into:

- Microorganisms
- Plants
- Animal

Based on region, the biocatalysts market can be divided into:

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

Market Analysis

Increasing environmental awareness is driving the demand for biocatalysts around the globe. Various technical advancements have made it possible to substitute traditional chemical catalysts, which release toxic elements into the atmosphere during their operation, with biocatalysts, which are an environmentally friendly alternative. Biocatalysts are increasingly gaining popularity in chemical synthesis due to various associated advantages, such as easier separation, limited side reactions, and decreased use of defensive groups. In addition, compared to traditional alkaline catalysed processes, biocatalysts are less energy-intensive and enable unrefined feedstock to be used in the production of biodiesel. This, in combination with the growing demand for biofuels as an alternative to fossil fuels, is expected to support the growth of the global biocatalysts market in the coming years.

Competitive Landscape

The report gives a detailed analysis of the following key players in the biocatalysts market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Novozymes
- Du Pont
- Codexis, Inc.

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- BASF SE
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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