

## **Europe Biocatalysts Market Report and Forecast 2025-2034**

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### **Report description:**

The Europe biocatalysts market reached a volume of around 53.97 KMT in 2024. During the forecast period of 2025 and 2034, the market is expected to grow at a CAGR of 4.50% to reach around 83.81 KMT by 2034.

#### Europe Biocatalysts Market Growth

The biocatalyst market in Europe is primarily driven by the region's growing food manufacturing and processing sectors. Considering the manufacturing sector itself, FoodDrink Europe has reported approximately 2% increase in the food production volume between 2021 and 2022. Moreover, the food processing sector generated an overall revenue of EUR 1,109 billion in 2022, with a total of 294,000 firms operating in the region. As more firms are expected to explore the manufacturing and processing sectors during the forecast period, the biocatalysts market is expected to witness a peak in demand for new and efficient biocatalysts to increase the shelf-life and nutrition absorption ability of processed food.

The food and beverage industry is one of the largest users of biocatalysts, followed by the sectors producing cleaning products, biofuel, feed and agricultural, and biopharmaceuticals. Nutrient-rich food can be produced faster and cheaper with the aid of biocatalysts. Due to this, they are employed as enzymes in bakery goods, beverages, and dairy products like cheese and yogurt in the food industry. Additionally, chemical processes are being replaced by biocatalytic processes in a variety of industries, such as textiles, biopharmaceuticals, agriculture and feed, and biofuel generation.

#### Key Trends and Recent Developments

Rising demand for specialty bioenzymes, use of freeze-drying in bio enzyme production, and use of biocatalysts in food-additives are the key trends driving the market development.

March 2024

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Solas Cure, the brainchild of leading German Biotech Company, BRAIN Biotech AG, has received a grant worth EUR 405K in 2023 from Innovate UK to encourage the clinical development of its first investigational product Aurase Wound Gel. It is a hydrogel containing tarumase, a bio enzyme cloned from medical maggots for the treatment of patients suffering from chronic wounds.

February 2024

FabricNano, a London-based synthetic biochemical manufacturing company is planning to use cell-free biocatalysts to produce biochemicals that can be used in cleaning supplies, biofuels, and bio-plastics. The goal is to provide an alternative to fossil-fuels such as petroleum used in these products, thereby reducing the overall reliance on the fossil fuel industry.

November 2023

Biocatalysts Limited, a leading biocatalyst manufacturing company in Europe, acquired Breatec, WeissBioTech, and Biosun from its parent company BRAIN Biotech AG, creating a separate Bioproducts division under the brand. Their immense expertise and excellent application knowledge will position Biocatalysts Ltd. as a multi-speciality enzyme business well-positioned to drive growth and expansion within the food, beverage and life science industries.

Surge in Demand for Specialty Biocatalytic Enzymes

The European biopharmaceutical market is witnessing a surge in the demand for specialty enzymes that perform specific functions with high efficiency. The demand is driven by increased investment in the Europe's biopharma sector, owing to the need for environment conservation and sustainability alongside physical and mental well-being of the urban population.

Biocatalysts are transforming the Food Industry with Natural Flavours

Biocatalysts, especially bio enzymes, are increasingly being used in European food manufacturing and processing industries to speed up the production of flavoring compounds, enhancing their efficiency and specificity. Technological advancements such as enzyme engineering are further enhancing their effectiveness and sustainability in the long run.

Biofuel production from agriculture and forestry wastes or residues

The European Union (EU) has recently adopted the new "Fit for 55" policy targeting a 55% reduction of greenhouse gas emissions in the transport sector by 2030. Further, the revised ReFuelEU regulation aims for 5% sustainable aviation fuels while the RED II revision targets a 2.2% share of advanced biofuels during the same period. This will be achieved with increased production of biofuels from agricultural and forestry wastes/residues.

Use of Large-Scale Freeze-Drying Equipment in Biocatalytic Enzyme Production

Leading European biocatalyst companies such as Biocatalysts Limited are adopting large-scale freeze-drying techniques to ensure stability and customization in enzyme production processes. This technology extends shelf life and improves rehydration, meeting the rising demand for high-quality enzyme products. Investments in advanced freeze-drying equipment are a major trend driving Europe's biocatalyst market expansion.

Europe Biocatalysts Industry Segmentation

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

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#### Market Breakup by Type:

- Hydrolases
- Oxidoreductases
- Transferases
- Others

#### Market Breakup by Source:

- Microorganisms
- Plants
- Animals

#### Market Breakup by Application:

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

#### Market Breakup by Country:

- United Kingdom
- Germany
- France
- Italy
- Others

#### Europe Biocatalysts Market Share

France is expected to occupy a significant share in the market with its growing food processing industry that generated a turnover of EUR 170 billion in 2022. This accounted for 14% of the overall European food industry, with 55,810 food processing firms actively operating in the country.

United Kingdom is expected follow with its high biocatalyst demand in agri-food sector that recorded a gross value-added worth EUR 146.7 billion in 2022. Other countries such as Germany and Italy are witnessing high competition in biocatalyst use owing to their robust food production and exports. While Italy surpassed food production during 2021 with record-breaking turnover of EUR 60 billion, Germany is expected witness a quick revival during the forecast period.

#### Leading Companies in Europe Biocatalysts Market

Market players are introducing new technologies for quick and efficient bioenzyme extraction to cope with the rising demand for efficient biocatalysts in Europe.

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- Codexis, Inc.
- DSM-Firmenich AG
- Prozomix Limited
- BRAIN Biotech AG (Biocatalysts Ltd.)
- Sterling Pharma Solutions Limited
- AB Enzymes GmbH
- Almac Group Limited
- Amano Enzyme Inc.
- HydRegen Limited
- Others

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