

Global Biocatalytic chiral catalysis Market Growth 2026-2032

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Abstracts

The global Biocatalytic chiral catalysis market size is predicted to grow from US\$ 410 million in 2025 to US\$ 1056 million in 2032; it is expected to grow at a CAGR of 15.8% from 2026 to 2032.

Biocatalytic chiral catalysis refers to the use of natural or engineered enzymes, such as reductases, transaminases, and esterases, to achieve highly enantioselective transformations under mild conditions, enabling the synthesis of chiral molecules through enzyme stereoselectivity, and serving as an important alternative and complement to chemical asymmetric catalysis. Corresponding to a shipment volume of around 700 tons and a nominal capacity of about 1,300 tons, with a CAGR of approximately 15.2%. Structurally, ketoreductases and transaminases dominate the market with a combined share of approximately 75%, while lipases and other oxidoreductases account for about 25%. Pricing is significantly lower than chemical ligands but functionally stratified, with standard industrial enzymes averaging around \$200/kg and engineered enzymes around \$600/kg, resulting in a blended gross margin of approximately 55%. Applications are primarily in pharmaceuticals, accounting for about 70% of demand, mainly in the synthesis of chiral alcohol and amine intermediates and API manufacturing, with the remaining 30% in agrochemicals and fine chemicals, making it fundamentally a biologically driven catalytic tool market for chiral molecule construction.

The upstream includes fermentation media and genetic engineering inputs, the midstream focuses on enzyme screening, directed evolution, and scale-up fermentation, and downstream integration occurs within pharmaceutical and CDMO production processes. The industry exhibits a structure of platform enzyme companies and engineering-driven firms, with Novozymes and DSM-Firmenich leading in scale

production, and companies such as Codexis holding core capabilities in directed evolution. Overall, the industry is in a rapid penetration phase, driven by green chemistry policies, increasing molecular complexity, and substitution of high-pressure hydrogenation routes, with uncertainties mainly related to substrate scope limitations and scale-up stability challenges.

LP Information, Inc. (LPI) ' newest research report, the "Biocatalytic chiral catalysis Industry Forecast" looks at past sales and reviews total world Biocatalytic chiral catalysis sales in 2025, providing a comprehensive analysis by region and market sector of projected Biocatalytic chiral catalysis sales for 2026 through 2032. With Biocatalytic chiral catalysis sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Biocatalytic chiral catalysis industry.

This Insight Report provides a comprehensive analysis of the global Biocatalytic chiral catalysis landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Biocatalytic chiral catalysis portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Biocatalytic chiral catalysis market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Biocatalytic chiral catalysis and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Biocatalytic chiral catalysis.

This report presents a comprehensive overview, market shares, and growth opportunities of Biocatalytic chiral catalysis market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ketoreductase (KRED)

Transaminase (TA)

Lipase

Oxidoreductase

Enzyme Cascade

Segmentation by Process:

Single Enzyme

Enzyme Cascade

Immobilized Enzyme

Whole-cell Catalysis

Segmentation by Application:

Pharmaceuticals

Agrochemicals

Fine Chemicals

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Novozymes

Codexis

DSM-Firmenich

BASF

Amano Enzyme

AB Enzymes

Prozomix

Enzymaster

Key Questions Addressed in this Report

What is the 10-year outlook for the global Biocatalytic chiral catalysis market?

What factors are driving Biocatalytic chiral catalysis market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Biocatalytic chiral catalysis market opportunities vary by end market size?

How does Biocatalytic chiral catalysis break out by Type, by Application?

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