

Global Chiral Biocatalysis Services Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GF6D2E0A4FB8EN.html>

Date: June 2026

Pages: 138

Price: US\$ 3,480.00 (Single User License)

ID: GF6D2E0A4FB8EN

Abstracts

According to our (Global Info Research) latest study, the global Chiral Biocatalysis Services market size was valued at US\$ 811 million in 2025 and is forecast to a readjusted size of US\$ 1586 million by 2032 with a CAGR of 9.9% during review period.

The chiral biocatalysis services market refers to a specialized CRO/CDMO segment focused on enantioselective transformations using enzymes or whole-cell systems, providing outsourced R&D and process development services for chiral molecule construction across pharmaceuticals, fine chemicals, agrochemicals, food, and selected materials applications. Core services include enzyme screening, directed evolution, enantioselectivity optimization (ee improvement), route design, and scale-up, with optional extension into biocatalysis-enabled custom manufacturing. It excludes enzyme product sales.

The industry nominal capacity, inferred from engineering team size and parallel project handling, is estimated at 2,000–2,500 concurrent projects, with engineering and process development contributing over 60% of total value, corresponding to an equivalent throughput of ~12,000–15,000 project units annually (API intermediate process development basis). Pricing is strongly tiered: USD 50k–200k per discovery project, USD 200k–1M for enzyme engineering, and USD 1M–5M for process development and scale-up, while commercial manufacturing (if included) follows CDMO pricing but only partially belongs to this market. Blended gross margins are approximately 45–55%, driven by high-value engineering services. Demand is dominated by pharmaceuticals (65%), followed by fine chemicals (20%) and agrochemicals (8%), with food and materials collectively below 7%. The value chain spans upstream enzyme libraries, protein engineering, and emerging AI-driven enzyme design, midstream service

providers for screening and process development, and downstream integration with API/CDMO manufacturing. The competitive landscape is characterized by a “platform oligopoly + CDMO integration” structure: pure-play biocatalysis leaders (e.g., Codexis, Enzymaster) control core enzyme engineering capabilities, while CDMOs (e.g., Lonza, Cambrex, WuXi) embed biocatalysis to capture downstream value. Structurally, the market is in the mid-growth penetration phase, driven by demand for high enantioselectivity, yield, and greener processes (ESG/regulatory pressure), with the key uncertainty being the pace and scope of substitution versus traditional chiral metal catalysis, where biocatalysis has already achieved structural displacement in reduction and transamination but remains complementary in complex C–C bond formation.

This report is a detailed and comprehensive analysis for global Chiral Biocatalysis Services market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Chiral Biocatalysis Services market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Chiral Biocatalysis Services market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Chiral Biocatalysis Services market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Chiral Biocatalysis Services market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Chiral Biocatalysis Services

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Chiral Biocatalysis Services market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Codexis, Arzeda, Prozomix, Enzymaster, Almac Sciences, Johnson Matthey, Cambrex, Lonza, Evonik, BASF Enzymes, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Chiral Biocatalysis Services market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Oxidoreductases

Transferases

Hydrolases

Lyases

Isomerases

Whole-cell Systems

Market segment by Stage

Discovery

Engineering

Process Development

Scale-up

Commercial Manufacturing

Market segment by Application

Materials

Pharmaceuticals

Fine Chemicals

Agrochemicals

Food & Flavors

Others

Market segment by players, this report covers

Codexis

Arzeda

Prozomix

Enzymaster

Almac Sciences

Johnson Matthey

Cambrex

Lonza

Evonik

BASF Enzymes

Novozymes

DSM-Firmenich

Bachem

WuXi STA

Asymchem

Porton Pharma

J&K Scientific

Zhejiang Huahai

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Chiral Biocatalysis Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Chiral Biocatalysis Services, with revenue, gross margin, and global market share of Chiral Biocatalysis Services from 2021 to 2026.

Chapter 3, the Chiral Biocatalysis Services competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Chiral Biocatalysis Services market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Chiral Biocatalysis Services.

Chapter 13, to describe Chiral Biocatalysis Services research findings and conclusion.

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