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Global Immobilized Enzyme Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Immobilized Enzyme market size was valued at US$ 2737 million in 2025 and is forecast to a readjusted size of US$ 4638 million by 2032 with a CAGR of 8.3% during review period.

In 2025, the global production volume of Immobilized Enzyme reached approximately 28 thousand tons, with an average selling price of USD 95,000 per ton, production capacity of approximately 40 thousand tons, and a gross margin of 38%.

Immobilized enzymes are a common technique in enzyme engineering. Water-soluble enzymes are physically or chemically modified and then fixed to a specific carrier, rendering them water-insoluble and capable of repeated and continuous catalysis. This technique can increase the enzyme's resistance to pH or temperature changes. It also allows the enzyme to be immobilized during the reaction, allowing for easy separation from reactants or products and multiple uses.

Enzyme immobilization technology refers to a bioengineering technique that uses physical or chemical methods to confine free enzymes to a specific spatial region while retaining their catalytic activity and selectivity. Developed in the 1960s, this technology has become a key bridge connecting biocatalysis and industrial applications. Its core value lies in overcoming the limitations of natural enzymes in industrial use: free enzymes are difficult to recycle and reuse in reaction systems, have poor stability, and are easily inactivated by environmental factors. Immobilization technology, by combining enzymes with carriers, constructs a reusable, stability-enhanced heterogeneous catalytic system, significantly improving the economy and applicability of enzymes. Currently, the mainstream immobilization methods include adsorption,

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covalent binding, cross-linking, and encapsulation. Adsorption methods rely on weak interactions such as van der Waals forces and ionic bonds to immobilize enzymes on a support surface. While simple to operate, they are sensitive to pH and ionic strength. Covalent binding methods form strong covalent bonds between enzyme molecules and the support. While complex, they also offer low enzyme leakage. Crosslinking methods utilize bifunctional reagents to crosslink enzyme molecules, forming a network structure. Encapsulation methods confine enzymes within polymer gel grids or microcapsules, effectively preserving their spatial conformation. Each of these techniques has its own unique characteristics, and the optimal approach should be selected based on the enzyme's characteristics and application scenario.

The advantages of immobilization technology manifest in multiple dimensions: first, significantly improving operational stability, enhancing the enzyme's ability to withstand temperature and pH fluctuations, and organic solvent shock; second, enabling repeated batch use or continuous production of the enzyme, significantly reducing catalyst costs; third, easy separation of immobilized enzymes from the reaction system, ensuring product purity and preventing enzyme contamination; and even more importantly, some immobilized enzymes exhibit enhanced properties, such as altered substrate specificity or improved reaction selectivity. However, this technology also faces challenges, such as potential loss of enzyme activity during the immobilization process, increased production costs for support materials, and reduced reaction rates due to mass transfer resistance. In practical applications, immobilization technology has profoundly transformed biomanufacturing. Immobilized glucose isomerase is used in fructose-glucose syrup production, enabling continuous sugar conversion. Immobilized penicillin acylase plays a key role in antibiotic semi-synthesis. Immobilized enzymes are also actively used in chiral drug synthesis, biosensor construction, and environmental pollutant degradation. With the development of new carrier materials such as nanomaterials and smart hydrogels, as well as new strategies such as targeted immobilization and multi-enzyme co-immobilization, enzyme immobilization technology is evolving toward higher efficiency, greater stability, and more precise control, continuously injecting innovative momentum into green manufacturing and sustainable development.

Report Scope

This report is a detailed and comprehensive analysis for global Immobilized Enzyme market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this

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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 Immobilized Enzyme market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Kg), 2021-2032

Global Immobilized Enzyme market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Kg), 2021-2032

Global Immobilized Enzyme market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Kg), 2021-2032

Global Immobilized Enzyme market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Kg), 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 Immobilized Enzyme

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 Immobilized Enzyme market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Novozyme, Amano Enzyme, ChiralVision, c - Lecta, CLEA Technologies, Wuxi Vland Biotech, Baoxing Biotech, Thermo Fisher,

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Genovis, Creative Enzymes, etc.

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

Immobilized Enzyme 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Immobilized Lipase

Immobilized Protease

Cross-linked Enzyme Aggregates

Others

Market segment by Technology

Adsorption

Covalent binding

Encapsulation

Crosslinking

Market segment by Carrier Material Type

Inorganic Carrier Immobilized Enzyme

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Organic Carrier Immobilized Enzyme

Market segment by Application

Pharmaceuticals

Chemicals

Food

Energy

Others

Major players covered

Novozyme

Amano Enzyme

ChiralVision

c - Lecta

CLEA Technologies

Wuxi Vland Biotech

Baoxing Biotech

Thermo Fisher

Genovis

Creative Enzymes

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EnzymoCore

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Immobilized Enzyme product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Immobilized Enzyme, with price, sales quantity, revenue, and global market share of Immobilized Enzyme from 2021 to 2026.

Chapter 3, the Immobilized Enzyme competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Immobilized Enzyme breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

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to 2026.and Immobilized Enzyme market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Immobilized Enzyme.

Chapter 14 and 15, to describe Immobilized Enzyme sales channel, distributors, customers, research findings and conclusion.

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