

Global Immobilized Enzyme Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Immobilized Enzyme competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. 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. Global sales of immobilized enzymes are expected to reach approximately 20,000 tons in 2024, with a price of \$35-80 per kilogram. 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, 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.

The global Immobilized Enzyme market size was estimated at USD 1021.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Immobilized Enzyme market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market

positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Immobilized Enzyme market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Immobilized Enzyme market.

Global Immobilized Enzyme Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Novozyme
Amano Enzyme
ChiralVision
c - Lecta
CLEA Technologies
Wuxi Vland Biotech
Baoxing Biotech
Thermo Fisher
Genovis
Creative Enzymes

EnzymoCore

Market Segmentation (by Type)

Immobilized Lipase
Immobilized Protease
Cross-linked Enzyme Aggregates
Others

Market Segmentation (by Application)

Pharmaceuticals
Chemicals
Food
Energy
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Immobilized Enzyme Market
Overview of the regional outlook of the Immobilized Enzyme Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Immobilized Enzyme Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Immobilized Enzyme, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to

come
6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Immobilized Enzyme
- 1.2 Key Market Segments
 - 1.2.1 Immobilized Enzyme Segment by Type
 - 1.2.2 Immobilized Enzyme Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 IMMOBILIZED ENZYME MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Immobilized Enzyme Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Immobilized Enzyme Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 IMMOBILIZED ENZYME MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Immobilized Enzyme Product Life Cycle
- 3.3 Global Immobilized Enzyme Sales by Manufacturers (2020-2025)
- 3.4 Global Immobilized Enzyme Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Immobilized Enzyme Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Immobilized Enzyme Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Immobilized Enzyme Market Competitive Situation and Trends
 - 3.8.1 Immobilized Enzyme Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Immobilized Enzyme Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 IMMOBILIZED ENZYME INDUSTRY CHAIN ANALYSIS

- 4.1 Immobilized Enzyme Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF IMMOBILIZED ENZYME MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Immobilized Enzyme Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Immobilized Enzyme Market
- 5.7 ESG Ratings of Leading Companies

6 IMMOBILIZED ENZYME MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Immobilized Enzyme Sales Market Share by Type (2020-2025)
- 6.3 Global Immobilized Enzyme Market Size by Type (2020-2025)
- 6.4 Global Immobilized Enzyme Price by Type (2020-2025)

7 IMMOBILIZED ENZYME MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Immobilized Enzyme Market Sales by Application (2020-2025)
- 7.3 Global Immobilized Enzyme Market Size (M USD) by Application (2020-2025)

7.4 Global Immobilized Enzyme Sales Growth Rate by Application (2020-2025)

8 IMMOBILIZED ENZYME MARKET SALES BY REGION

8.1 Global Immobilized Enzyme Sales by Region

8.1.1 Global Immobilized Enzyme Sales by Region

8.1.2 Global Immobilized Enzyme Sales Market Share by Region

8.2 Global Immobilized Enzyme Market Size by Region

8.2.1 Global Immobilized Enzyme Market Size by Region

8.2.2 Global Immobilized Enzyme Market Size by Region

8.3 North America

8.3.1 North America Immobilized Enzyme Sales by Country

8.3.2 North America Immobilized Enzyme Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Immobilized Enzyme Sales by Country

8.4.2 Europe Immobilized Enzyme Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Immobilized Enzyme Sales by Region

8.5.2 Asia Pacific Immobilized Enzyme Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Immobilized Enzyme Sales by Country

8.6.2 South America Immobilized Enzyme Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Immobilized Enzyme Sales by Region
- 8.7.2 Middle East and Africa Immobilized Enzyme Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 IMMOBILIZED ENZYME MARKET PRODUCTION BY REGION

- 9.1 Global Production of Immobilized Enzyme by Region(2020-2025)
- 9.2 Global Immobilized Enzyme Revenue Market Share by Region (2020-2025)
- 9.3 Global Immobilized Enzyme Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Immobilized Enzyme Production
 - 9.4.1 North America Immobilized Enzyme Production Growth Rate (2020-2025)
 - 9.4.2 North America Immobilized Enzyme Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Immobilized Enzyme Production
 - 9.5.1 Europe Immobilized Enzyme Production Growth Rate (2020-2025)
 - 9.5.2 Europe Immobilized Enzyme Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Immobilized Enzyme Production (2020-2025)
 - 9.6.1 Japan Immobilized Enzyme Production Growth Rate (2020-2025)
 - 9.6.2 Japan Immobilized Enzyme Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Immobilized Enzyme Production (2020-2025)
 - 9.7.1 China Immobilized Enzyme Production Growth Rate (2020-2025)
 - 9.7.2 China Immobilized Enzyme Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Novozyme
 - 10.1.1 Novozyme Basic Information
 - 10.1.2 Novozyme Immobilized Enzyme Product Overview
 - 10.1.3 Novozyme Immobilized Enzyme Product Market Performance
 - 10.1.4 Novozyme Business Overview
 - 10.1.5 Novozyme SWOT Analysis

- 10.1.6 Novozyme Recent Developments
- 10.2 Amano Enzyme
 - 10.2.1 Amano Enzyme Basic Information
 - 10.2.2 Amano Enzyme Immobilized Enzyme Product Overview
 - 10.2.3 Amano Enzyme Immobilized Enzyme Product Market Performance
 - 10.2.4 Amano Enzyme Business Overview
 - 10.2.5 Amano Enzyme SWOT Analysis
 - 10.2.6 Amano Enzyme Recent Developments
- 10.3 ChiralVision
 - 10.3.1 ChiralVision Basic Information
 - 10.3.2 ChiralVision Immobilized Enzyme Product Overview
 - 10.3.3 ChiralVision Immobilized Enzyme Product Market Performance
 - 10.3.4 ChiralVision Business Overview
 - 10.3.5 ChiralVision SWOT Analysis
 - 10.3.6 ChiralVision Recent Developments
- 10.4 c - Lecta
 - 10.4.1 c - Lecta Basic Information
 - 10.4.2 c - Lecta Immobilized Enzyme Product Overview
 - 10.4.3 c - Lecta Immobilized Enzyme Product Market Performance
 - 10.4.4 c - Lecta Business Overview
 - 10.4.5 c - Lecta Recent Developments
- 10.5 CLEA Technologies
 - 10.5.1 CLEA Technologies Basic Information
 - 10.5.2 CLEA Technologies Immobilized Enzyme Product Overview
 - 10.5.3 CLEA Technologies Immobilized Enzyme Product Market Performance
 - 10.5.4 CLEA Technologies Business Overview
 - 10.5.5 CLEA Technologies Recent Developments
- 10.6 Wuxi Vland Biotech
 - 10.6.1 Wuxi Vland Biotech Basic Information
 - 10.6.2 Wuxi Vland Biotech Immobilized Enzyme Product Overview
 - 10.6.3 Wuxi Vland Biotech Immobilized Enzyme Product Market Performance
 - 10.6.4 Wuxi Vland Biotech Business Overview
 - 10.6.5 Wuxi Vland Biotech Recent Developments
- 10.7 Baoxing Biotech
 - 10.7.1 Baoxing Biotech Basic Information
 - 10.7.2 Baoxing Biotech Immobilized Enzyme Product Overview
 - 10.7.3 Baoxing Biotech Immobilized Enzyme Product Market Performance
 - 10.7.4 Baoxing Biotech Business Overview
 - 10.7.5 Baoxing Biotech Recent Developments

10.8 Thermo Fisher

- 10.8.1 Thermo Fisher Basic Information
- 10.8.2 Thermo Fisher Immobilized Enzyme Product Overview
- 10.8.3 Thermo Fisher Immobilized Enzyme Product Market Performance
- 10.8.4 Thermo Fisher Business Overview
- 10.8.5 Thermo Fisher Recent Developments

10.9 Genovis

- 10.9.1 Genovis Basic Information
- 10.9.2 Genovis Immobilized Enzyme Product Overview
- 10.9.3 Genovis Immobilized Enzyme Product Market Performance
- 10.9.4 Genovis Business Overview
- 10.9.5 Genovis Recent Developments

10.10 Creative Enzymes

- 10.10.1 Creative Enzymes Basic Information
- 10.10.2 Creative Enzymes Immobilized Enzyme Product Overview
- 10.10.3 Creative Enzymes Immobilized Enzyme Product Market Performance
- 10.10.4 Creative Enzymes Business Overview
- 10.10.5 Creative Enzymes Recent Developments

10.11 EnzymoCore

- 10.11.1 EnzymoCore Basic Information
- 10.11.2 EnzymoCore Immobilized Enzyme Product Overview
- 10.11.3 EnzymoCore Immobilized Enzyme Product Market Performance
- 10.11.4 EnzymoCore Business Overview
- 10.11.5 EnzymoCore Recent Developments

11 IMMOBILIZED ENZYME MARKET FORECAST BY REGION

- 11.1 Global Immobilized Enzyme Market Size Forecast
- 11.2 Global Immobilized Enzyme Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Immobilized Enzyme Market Size Forecast by Country
 - 11.2.3 Asia Pacific Immobilized Enzyme Market Size Forecast by Region
 - 11.2.4 South America Immobilized Enzyme Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Immobilized Enzyme by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Immobilized Enzyme Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Immobilized Enzyme by Type (2026-2035)

- 12.1.2 Global Immobilized Enzyme Market Size Forecast by Type (2026-2035)
- 12.1.3 Global Forecasted Price of Immobilized Enzyme by Type (2026-2035)
- 12.2 Global Immobilized Enzyme Market Forecast by Application (2026-2035)
 - 12.2.1 Global Immobilized Enzyme Sales (K MT) Forecast by Application
 - 12.2.2 Global Immobilized Enzyme Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Immobilized Enzyme Market Size by Type (M USD)

Table 4. Global Immobilized Enzyme Market Size by Application

Table 5. Immobilized Enzyme Market Size Comparison by Region (M USD)

Table 6. Global Immobilized Enzyme Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Immobilized Enzyme Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Immobilized Enzyme Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Immobilized Enzyme Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Immobilized Enzyme as of 2025)

Table 11. Global Market Immobilized Enzyme Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Immobilized Enzyme Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Immobilized Enzyme Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Immobilized Enzyme Sales by Type (K MT)

Table 27. Global Immobilized Enzyme Market Size by Type (M USD)

Table 28. Global Immobilized Enzyme Sales (K MT) by Type (2020-2025)

Table 29. Global Immobilized Enzyme Sales Market Share by Type (2020-2025)

Table 30. Global Immobilized Enzyme Market Size (M USD) by Type (2020-2025)

- Table 31. Global Immobilized Enzyme Market Share by Type (2020-2025)
- Table 32. Global Immobilized Enzyme Price (USD/KG) by Type (2020-2025)
- Table 33. Global Immobilized Enzyme Sales (K MT) by Application
- Table 34. Global Immobilized Enzyme Market Size by Application
- Table 35. Global Immobilized Enzyme Sales by Application (2020-2025) & (K MT)
- Table 36. Global Immobilized Enzyme Sales Market Share by Application (2020-2025)
- Table 37. Global Immobilized Enzyme Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Immobilized Enzyme Market Share by Application (2020-2025)
- Table 39. Global Immobilized Enzyme Sales Growth Rate by Application (2020-2025)
- Table 40. Global Immobilized Enzyme Sales by Region (2020-2025) & (K MT)
- Table 41. Global Immobilized Enzyme Sales Market Share by Region (2020-2025)
- Table 42. Global Immobilized Enzyme Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Immobilized Enzyme Market Size by Region (2020-2025)
- Table 44. North America Immobilized Enzyme Sales by Country (2020-2025) & (K MT)
- Table 45. North America Immobilized Enzyme Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Immobilized Enzyme Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Immobilized Enzyme Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Immobilized Enzyme Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Immobilized Enzyme Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Immobilized Enzyme Sales by Country (2020-2025) & (K MT)
- Table 51. South America Immobilized Enzyme Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Immobilized Enzyme Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa Immobilized Enzyme Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Immobilized Enzyme Production (K MT) by Region(2020-2025)
- Table 55. Global Immobilized Enzyme Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Immobilized Enzyme Revenue Market Share by Region (2020-2025)
- Table 57. Global Immobilized Enzyme Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America Immobilized Enzyme Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe Immobilized Enzyme Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan Immobilized Enzyme Production (K MT), Revenue (US\$ Million), Price

(USD/KG) and Gross Margin (2020-2025)

Table 61. China Immobilized Enzyme Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Novozyme Basic Information

Table 63. Novozyme Immobilized Enzyme Product Overview

Table 64. Novozyme Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Novozyme Business Overview

Table 66. Novozyme SWOT Analysis

Table 67. Novozyme Recent Developments

Table 68. Amano Enzyme Basic Information

Table 69. Amano Enzyme Immobilized Enzyme Product Overview

Table 70. Amano Enzyme Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Amano Enzyme Business Overview

Table 72. Amano Enzyme SWOT Analysis

Table 73. Amano Enzyme Recent Developments

Table 74. ChiralVision Basic Information

Table 75. ChiralVision Immobilized Enzyme Product Overview

Table 76. ChiralVision Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. ChiralVision Business Overview

Table 78. ChiralVision SWOT Analysis

Table 79. ChiralVision Recent Developments

Table 80. c - Lecta Basic Information

Table 81. c - Lecta Immobilized Enzyme Product Overview

Table 82. c - Lecta Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. c - Lecta Business Overview

Table 84. c - Lecta Recent Developments

Table 85. CLEA Technologies Basic Information

Table 86. CLEA Technologies Immobilized Enzyme Product Overview

Table 87. CLEA Technologies Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. CLEA Technologies Business Overview

Table 89. CLEA Technologies Recent Developments

Table 90. Wuxi Vland Biotech Basic Information

Table 91. Wuxi Vland Biotech Immobilized Enzyme Product Overview

Table 92. Wuxi Vland Biotech Immobilized Enzyme Sales (K MT), Revenue (M USD),

Price (USD/KG) and Gross Margin (2020-2025)

Table 93. Wuxi Vland Biotech Business Overview

Table 94. Wuxi Vland Biotech Recent Developments

Table 95. Baoxing Biotech Basic Information

Table 96. Baoxing Biotech Immobilized Enzyme Product Overview

Table 97. Baoxing Biotech Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. Baoxing Biotech Business Overview

Table 99. Baoxing Biotech Recent Developments

Table 100. Thermo Fisher Basic Information

Table 101. Thermo Fisher Immobilized Enzyme Product Overview

Table 102. Thermo Fisher Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 103. Thermo Fisher Business Overview

Table 104. Thermo Fisher Recent Developments

Table 105. Genovis Basic Information

Table 106. Genovis Immobilized Enzyme Product Overview

Table 107. Genovis Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 108. Genovis Business Overview

Table 109. Genovis Recent Developments

Table 110. Creative Enzymes Basic Information

Table 111. Creative Enzymes Immobilized Enzyme Product Overview

Table 112. Creative Enzymes Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 113. Creative Enzymes Business Overview

Table 114. Creative Enzymes Recent Developments

Table 115. EnzymoCore Basic Information

Table 116. EnzymoCore Immobilized Enzyme Product Overview

Table 117. EnzymoCore Immobilized Enzyme Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 118. EnzymoCore Business Overview

Table 119. EnzymoCore Recent Developments

Table 120. Global Immobilized Enzyme Sales Forecast by Region (2026-2035) & (K MT)

Table 121. Global Immobilized Enzyme Market Size Forecast by Region (2026-2035) & (M USD)

Table 122. North America Immobilized Enzyme Sales Forecast by Country (2026-2035) & (K MT)

Table 123. North America Immobilized Enzyme Market Size Forecast by Country (2026-2035) & (M USD)

Table 124. Europe Immobilized Enzyme Sales Forecast by Country (2026-2035) & (K MT)

Table 125. Europe Immobilized Enzyme Market Size Forecast by Country (2026-2035) & (M USD)

Table 126. Asia Pacific Immobilized Enzyme Sales Forecast by Region (2026-2035) & (K MT)

Table 127. Asia Pacific Immobilized Enzyme Market Size Forecast by Region (2026-2035) & (M USD)

Table 128. South America Immobilized Enzyme Sales Forecast by Country (2026-2035) & (K MT)

Table 129. South America Immobilized Enzyme Market Size Forecast by Country (2026-2035) & (M USD)

Table 130. Middle East and Africa Immobilized Enzyme Sales Forecast by Country (2026-2035) & (Units)

Table 131. Middle East and Africa Immobilized Enzyme Market Size Forecast by Country (2026-2035) & (M USD)

Table 132. Global Immobilized Enzyme Sales Forecast by Type (2026-2035) & (K MT)

Table 133. Global Immobilized Enzyme Market Size Forecast by Type (2026-2035) & (M USD)

Table 134. Global Immobilized Enzyme Price Forecast by Type (2026-2035) & (USD/KG)

Table 135. Global Immobilized Enzyme Sales (K MT) Forecast by Application (2026-2035)

Table 136. Global Immobilized Enzyme Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Immobilized Enzyme
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Immobilized Enzyme Market Size (M USD), 2025-2035
- Figure 5. Global Immobilized Enzyme Market Size (M USD) (2020-2035)
- Figure 6. Global Immobilized Enzyme Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Immobilized Enzyme Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Immobilized Enzyme Product Life Cycle
- Figure 13. Immobilized Enzyme Sales Share by Manufacturers in 2025
- Figure 14. Global Immobilized Enzyme Revenue Share by Manufacturers in 2025
- Figure 15. Immobilized Enzyme Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Immobilized Enzyme Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Immobilized Enzyme Revenue in 2025
- Figure 18. Industry Chain Map of Immobilized Enzyme
- Figure 19. Global Immobilized Enzyme Market PEST Analysis
- Figure 20. Global Immobilized Enzyme Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Immobilized Enzyme Market Share by Type
- Figure 27. Sales Market Share of Immobilized Enzyme by Type (2020-2025)
- Figure 28. Sales Market Share of Immobilized Enzyme by Type in 2025
- Figure 29. Market Share of Immobilized Enzyme by Type (2020-2025)
- Figure 30. Market Share of Immobilized Enzyme by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Immobilized Enzyme Market Share by Application

- Figure 33. Global Immobilized Enzyme Sales Market Share by Application (2020-2025)
- Figure 34. Global Immobilized Enzyme Sales Market Share by Application in 2025
- Figure 35. Global Immobilized Enzyme Market Share by Application (2020-2025)
- Figure 36. Global Immobilized Enzyme Market Share by Application in 2025
- Figure 37. Global Immobilized Enzyme Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Immobilized Enzyme Sales Market Share by Region (2020-2025)
- Figure 39. Global Immobilized Enzyme Market Size by Region (2020-2025)
- Figure 40. North America Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Immobilized Enzyme Sales Market Share by Country in 2024
- Figure 43. North America Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Immobilized Enzyme Market Size by Country in 2024
- Figure 45. U.S. Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Immobilized Enzyme Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Immobilized Enzyme Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Immobilized Enzyme Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Immobilized Enzyme Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Immobilized Enzyme Sales Market Share by Country in 2024
- Figure 53. Europe Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Immobilized Enzyme Market Size by Country in 2024
- Figure 55. Germany Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 56. Germany Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 58. France Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)
- Figure 60. U.K. Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Immobilized Enzyme Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Immobilized Enzyme Sales Market Share by Region in 2024

Figure 67. Asia Pacific Immobilized Enzyme Market Size by Region in 2024

Figure 68. China Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Immobilized Enzyme Sales and Growth Rate (K MT)

Figure 79. South America Immobilized Enzyme Sales Market Share by Country in 2024

Figure 80. South America Immobilized Enzyme Market Size and Growth Rate (M USD)

Figure 81. South America Immobilized Enzyme Market Size by Country in 2024

Figure 82. Brazil Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Immobilized Enzyme Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Immobilized Enzyme Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Immobilized Enzyme Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Immobilized Enzyme Market Size by Region in 2024

Figure 92. Saudi Arabia Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Immobilized Enzyme Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Immobilized Enzyme Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Immobilized Enzyme Production Market Share by Region (2020-2025)

Figure 103. North America Immobilized Enzyme Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Immobilized Enzyme Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Immobilized Enzyme Production (K MT) Growth Rate (2020-2025)

Figure 106. China Immobilized Enzyme Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Immobilized Enzyme Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Immobilized Enzyme Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Immobilized Enzyme Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Immobilized Enzyme Market Share Forecast by Type (2026-2035)

Figure 111. Global Immobilized Enzyme Sales Forecast by Application (2026-2035)

Figure 112. Global Immobilized Enzyme Market Share Forecast by Application (2026-2035)

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