

Enzymes Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global enzymes market size reached US\$ 12.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 18.1 Billion by 2028, exhibiting a growth rate (CAGR) of 6.06% during 2023-2028.

Enzymes are biological catalysts that accelerate the rate of a chemical reaction in the cell. They help build metabolism and break down fats, proteins and carbohydrates to support digestion. They also assist in building muscles, nerve function, and removing toxins from the body. In addition, they aid in the conservation and transformation of chemical energy, construction of cellular macromolecules from smaller precursors, and prevention of diseases, such as albinism and phenylketonuria. As enzymes are used in the fermenting of wine, leavening of bread, curdling of cheese, and brewing of beer, they find extensive applications in food and beverage (F&B), bioenergy, pharmaceutical, and biotechnology industries across the globe.

Enzymes Market Trends:

The growing demand for enzymes in the pharmaceutical industry to synthesize intermediates in active pharmaceutical ingredient (API) production for effective medications represents one of the key factors driving the market. Moreover, there is a rise in the utilization of enzymes in the food and beverage (F&B) industry to convert starch into glucose. This, along with the increasing application of enzymes in protein engineering technology, is strengthening the growth of the market. In addition, there is a rise in the employment of enzymes to produce biofuels as it is less energy-intensive and more environmental-friendly. This, coupled with the growing demand for renewable energy sources like biofuels, is positively influencing the market. Besides this, the

escalating demand for enzymes in detergents to remove fats and oil stains is offering lucrative growth opportunities to industry investors. Apart from this, the rising usage of enzymes in the paper and pulp industry to improve bleaching properties is projected to bolster the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global enzymes market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, source, reaction type and application.

Breakup by Type:

- Protease
- Carbohydrase
- Lipase
- Polymerase and Nuclease
- Others

Breakup by Source:

- Microorganisms
- Plants
- Animals

Breakup by Reaction Type:

- Hydrolase
- Oxidoreductase
- Transferase
- Lyase
- Others

Breakup by Application:

- Food and Beverages
- Household Care
- Bioenergy
- Pharmaceutical and Biotechnology

Feed
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced Enzyme Technologies Limited, Amano Enzyme Inc., Associated British Foods plc, Aumgene Biosciences, BASF SE, Chr. Hansen Holding A/S, Codexis Inc., DuPont de Nemours Inc., Koninklijke DSM N.V., Novozymes A/S, Novus International Inc. (Mitsui & Co. Ltd.) and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global enzymes market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global enzymes market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the source?

What is the breakup of the market based on the reaction type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global enzymes market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ENZYMES MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Protease
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Carbohydrase
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Lipase

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Polymerase and Nuclease
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Others
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY SOURCE

- 7.1 Microorganisms
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Plants
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Animals
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY REACTION TYPE

- 8.1 Hydrolase
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Oxidoreductase
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Transferase
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Lyase
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Others
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast

9 MARKET BREAKUP BY APPLICATION

9.1 Food and Beverages

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Household Care

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Bioenergy

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Pharmaceutical and Biotechnology

9.4.1 Market Trends

9.4.2 Market Forecast

9.5 Feed

9.5.1 Market Trends

9.5.2 Market Forecast

9.6 Others

9.6.1 Market Trends

9.6.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

- 10.2.3.2 Market Forecast
- 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
- 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast

10.4.2 Mexico

10.4.2.1 Market Trends

10.4.2.2 Market Forecast

10.4.3 Others

10.4.3.1 Market Trends

10.4.3.2 Market Forecast

10.5 Middle East and Africa

10.5.1 Market Trends

10.5.2 Market Breakup by Country

10.5.3 Market Forecast

11 SWOT ANALYSIS

11.1 Overview

11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

15.1 Market Structure

15.2 Key Players

15.3 Profiles of Key Players

15.3.1 Advanced Enzyme Technologies Limited

15.3.1.1 Company Overview

- 15.3.1.2 Product Portfolio
- 15.3.1.3 Financials
- 15.3.2 Amano Enzyme Inc.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
- 15.3.3 Associated British Foods plc
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
- 15.3.4 Aumgene Biosciences
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
- 15.3.5 BASF SE
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.5.4 SWOT Analysis
- 15.3.6 Chr. Hansen Holding A/S
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
- 15.3.7 Codexis Inc.
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
- 15.3.8 DuPont de Nemours Inc.
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
- 15.3.9 Koninklijke DSM N.V.
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
- 15.3.10 Novozymes A/S
 - 15.3.10.1 Company Overview

- 15.3.10.2 Product Portfolio
- 15.3.10.3 Financials
- 15.3.10.4 SWOT Analysis
- 15.3.11 Novus International Inc. (Mitsui & Co. Ltd.)
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
- 15.3.12 Thermo Fisher Scientific Inc.
 - 15.3.12.1 Company Overview
 - 15.3.12.2 Product Portfolio
 - 15.3.12.3 Financials
 - 15.3.12.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Enzymes Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Enzymes Market Forecast: Breakup by Type (in Million US\$),
2023-2028

Table 3: Global: Enzymes Market Forecast: Breakup by Source (in Million US\$),
2023-2028

Table 4: Global: Enzymes Market Forecast: Breakup by Reaction Type (in Million US\$),
2023-2028

Table 5: Global: Enzymes Market Forecast: Breakup by Application (in Million US\$),
2023-2028

Table 6: Global: Enzymes Market Forecast: Breakup by Region (in Million US\$),
2023-2028

Table 7: Global: Enzymes Market: Competitive Structure

Table 8: Global: Enzymes Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Enzymes Market: Major Drivers and Challenges

Figure 2: Global: Enzymes Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Enzymes Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Enzymes Market: Breakup by Type (in %), 2022

Figure 5: Global: Enzymes Market: Breakup by Source (in %), 2022

Figure 6: Global: Enzymes Market: Breakup by Reaction Type (in %), 2022

Figure 7: Global: Enzymes Market: Breakup by Application (in %), 2022

Figure 8: Global: Enzymes Market: Breakup by Region (in %), 2022

Figure 9: Global: Enzymes (Protease) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Enzymes (Protease) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Enzymes (Carbohydrase) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Enzymes (Carbohydrase) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Enzymes (Lipase) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Enzymes (Lipase) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Enzymes (Polymerase and Nuclease) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Enzymes (Polymerase and Nuclease) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Enzymes (Other Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Enzymes (Other Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Enzymes (Microorganisms) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Enzymes (Microorganisms) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Enzymes (Plants) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Enzymes (Plants) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Enzymes (Animals) Market: Sales Value (in Million US\$), 2017 &

2022

Figure 24: Global: Enzymes (Animals) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Enzymes (Hydrolase) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Enzymes (Hydrolase) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Enzymes (Oxidoreductase) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Enzymes (Oxidoreductase) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Enzymes (Transferase) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Enzymes (Transferase) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Enzymes (Lyase) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Enzymes (Lyase) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Enzymes (Other Reaction Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Enzymes (Other Reaction Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Enzymes (Food and Beverages) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Enzymes (Food and Beverages) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Enzymes (Household Care) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Enzymes (Household Care) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Global: Enzymes (Bioenergy) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Global: Enzymes (Bioenergy) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Global: Enzymes (Pharmaceutical and Biotechnology) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Global: Enzymes (Pharmaceutical and Biotechnology) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Global: Enzymes (Feed) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Global: Enzymes (Feed) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Global: Enzymes (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Global: Enzymes (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: North America: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: North America: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: United States: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: United States: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Canada: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Canada: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Asia-Pacific: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Asia-Pacific: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: China: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: China: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Japan: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Japan: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: India: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: India: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: South Korea: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: South Korea: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Australia: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Australia: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Indonesia: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Indonesia: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Europe: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Europe: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Germany: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Germany: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: France: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: France: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: United Kingdom: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: United Kingdom: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Italy: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Italy: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Spain: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Spain: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Russia: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Russia: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Others: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Others: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Latin America: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 86: Latin America: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Brazil: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 88: Brazil: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 89: Mexico: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 90: Mexico: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 91: Others: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 92: Others: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 93: Middle East and Africa: Enzymes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 94: Middle East and Africa: Enzymes Market: Breakup by Country (in %), 2022

Figure 95: Middle East and Africa: Enzymes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 96: Global: Enzymes Industry: SWOT Analysis

Figure 97: Global: Enzymes Industry: Value Chain Analysis

Figure 98: Global: Enzymes Industry: Porter's Five Forces Analysis

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