

# Global Enzymes Market Size Study & Forecast, by Type (Industrial Enzymes, Specialty Enzymes), By Source (Plants, Animals, Microorganisms), By Product Type (Protease, Lipase, Carbohydrates, Nuclease & Polymerase, Others), and Regional Analysis, 2023-2030

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## Abstracts

Global Enzymes Market is valued approximately at USD 12.1 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 6.80% over the forecast period 2023-2030. Enzymes are biological molecules (typically proteins) that act as catalysts to facilitate and accelerate chemical reactions within living organisms. They are essential for various biological processes, including digestion, metabolism, and cellular signaling. Enzymes work by binding to specific molecules (substrates) and converting them into different molecules (products) while remaining unchanged themselves. Moreover, the increasing demand from food and beverage industry, rising awareness about health and nutrition and expansion of pharmaceutical and biopharmaceutical industries are anticipated to create the lucrative demand for the market during forecast period 2023-2030.

Additionally, the growing biopharmaceutical industry has a significant impact on the enzymes market. Enzymes are critical in various stages of drug development and manufacturing within the biopharmaceutical industry. They are used in processes such as protein expression, purification, modification and formulation. Enzymes play key roles in facilitating biochemical reactions, modifying biomolecules and optimizing production processes, thereby supporting the efficient and cost-effective manufacturing of biopharmaceuticals. According to Statista, in 2020, the biopharmaceutical market was valued USD 291.4 billion; in 2022 the market reached USD 403.1 billion and it is

anticipated to reach USD 635.4 billion by 2026. As a result, the growing biopharmaceutical market is anticipated to propel lucrative opportunity for the market growth. Moreover, the advancement in R&D activities for technical enzymes and advancements in enzyme engineering & green chemistry is anticipated to create the lucrative opportunity for the market. However, the stringent regulatory framework, and high prices of raw materials and products stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Enzymes Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the growing demand from food and beverage industry, rising demand for industrial enzymes, increasing awareness about enzyme benefits, and advancements in enzyme engineering and biotechnology. Whereas, the Asia Pacific region is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the growing investment in research and development activities focused on enzyme discovery, expansion of pharmaceutical industry, growing adoption in animal feed industry and expansion of textile and leather industries.

Major market players included in this report are:

BASF SE

Novozymes A/S

Amano Enzyme Inc.

F. HOFFMANN-LA ROCHE LTD.

Advanced Enzyme Technologies Ltd

AB Enzymes GmbH

Thermo Fisher Scientific Inc

Codexis, Inc.

Dupont De Nemours, Inc.

Koninklijke DSM N.V.

#### Recent Developments in the Market:

In December 2023, Aldevron and Codexis, Inc. have entered into a comprehensive global licensing agreement for Codex HiCap RNA Polymerase. The partnership is designed to enhance commercial reach and streamline the production of mRNA-based therapeutics, aiming for greater efficiency in manufacturing processes.

In September 2023, BASF SE has extended its collaboration with Cargill Incorporated, strengthening their joint effort to provide enzyme solutions tailored for animal protein producers in the United States.

#### Global Enzymes Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Source, Product Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries

involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Industrial Enzymes

Specialty Enzymes

By Source:

Plants

Animals

Microorganisms

By Product Type:

Protease

Lipase

Carbohydrates

Nuclease & Polymerase

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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