

Global Specialty Enzymes Market – Sources, Types and Applications

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Abstracts

Specialty Enzymes Market Trends and Outlook

Specialty enzymes are molecular catalysts that accelerate chemical reactions without altering the process. They are utilized across diverse fields such as pharmaceuticals, biotechnology, diagnostics, and food production, to enhance efficiency and specificity. These enzymes are integral to drug formulation, molecular diagnostics, and biocatalysis, offering targeted and efficient solutions. Their applications range from enzyme-based drug formulations and regenerative medicine to eco-friendly biocatalysts.

The global market for Specialty Enzymes is estimated at US\$5.9 billion in 2024 and is anticipated to register a CAGR of 7.4% during the 2024-2030 analysis period and stand at a projected US\$9 billion by 2030.

The specialty enzymes market is driven by increased investments in cell and gene-based therapies, advancements in enzyme engineering and bio-catalysis, and the wider use of nanozymes in regenerative medicine and diagnostics. Biocatalysts are preferred for their minimal toxicity, environmental advantages, and efficacy. Moreover, the rising incidence of metabolic disorders and chronic diseases, along with an emphasis on sustainable procedures and personalized medicine, continues to propel market expansion.

Specialty Enzymes Regional Market Analysis

North America led the global specialty enzymes market with an estimated share of 40.8% in 2024, driven by its robust pharmaceutical and biotechnology sectors. The region's dominance is supported by rapid technological advancements, innovative

product developments, and a strong presence of key market players and research facilities. Meanwhile, the Asia-Pacific market is anticipated to register the fastest CAGR of around 9% from 2024 to 2030, driven by emerging economies, health initiatives, and an increasing elderly population vulnerable to metabolic disorders. The rising prevalence of cardiovascular diseases, high incidence of cancer, and growing foreign investments in pharmaceuticals are projected to drive the demand for specialty enzymes. Furthermore, increased consumption of processed foods and a preference for natural ingredients are contributing to market expansion in the region.

Specialty Enzymes Market Analysis by Source

Based on the source, the microorganisms' segment is the largest market, which is projected to hold a share of approximately 76% in 2024 and is anticipated to record the fastest CAGR of 7.7% during forecast period from 2024 to 2030. The segment's swift expansion is driven by its cost-effective and scalable capabilities for producing enzymes, and advancements in fermentation technologies and the growing demand for biocatalysts in the biotechnology, pharmaceutical, and food production sectors.

Specialty Enzymes Market Analysis by Type

Based on type, the specialty enzymes market is dominated by the carbohydrases segment, which is expected to hold a share of around 42% in 2024, driven by its wide range of applications in food and beverage, biofuel production, and animal feed. On the other hand, the proteases segment is forecasted to exhibit the fastest CAGR of 9.8% during the 2024-2030 analysis period, owing to its extensive usage in pharmaceuticals, biotechnology, and healthcare. Genetic engineering advancements further expand their roles in drug development, therapeutic treatments, and diagnostics, with proteases playing a crucial role in the treatment of various conditions such as cancer and digestive ailments.

Specialty Enzymes Market Analysis by Application

Based on application, the market is led by the pharmaceuticals sector, which is projected to hold a market share of approximately 42% in 2024. This is due to its significant contribution to drug discovery, API synthesis, and biologics manufacturing, aimed at meeting the demand for personalized treatments. Conversely, the Diagnostics application segment is anticipated to record the fastest CAGR of 8.7% during the forecast period 2024-2030. This growth is attributed to the crucial role of enzymes such as polymerases and ligases in molecular diagnostics, which are vital for disease

detection and the support of point-of-care devices for managing chronic conditions.

Specialty Enzymes Market Report Scope

This global report on Specialty Enzymes analyzes the market based on source, type, and application. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2023

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 15+

Specialty Enzymes Market by Geographic Region

North America (The United States, Canada, and Mexico)

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

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

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

Rest of World

Specialty Enzymes Market by Source

Microorganisms

Plants

Animals

Specialty Enzymes Market by Type

Carbohydrases

Proteases

Lipases

Polymerases & Nucleases

Other Enzymes (Including Phytases, Laccases, Transglutaminases, Catalases, and Xylanases)

Specialty Enzymes Market by Application

Pharmaceuticals

Research & Biotechnology

Diagnostics

Others (Including Biocatalysts, and Nutraceuticals)

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Proteases

Lipases

Polymerases & Nucleases

Other Enzymes (Including Phytases, Laccases, Transglutaminases, Catalases, and Xylanases)

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Research & Biotechnology

Diagnostics

Others (Including Biocatalysts, and Nutraceuticals)

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Amicogen Inc.

Antozyme Biotech Pvt Ltd

BASF SE

BBI Solutions

Biocatalysts Ltd.

Codexis, Inc

DuPont de Nemours, Inc.

Dyadic International, Inc.

Enzyme Development Corporation (EDC)

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Koninklijke DSM N.V.

Novonesis

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Plants

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Proteases

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Polymerases & Nucleases

Other Enzymes

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