

Dairy Enzymes Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (Lactase, Chymosin, Microbial Rennet, Lipase and Others), By Application (Milk, Cheese, Ice-Cream & Desserts, Yogurt, Whey, Infant Formula and Others), By Source (Plant and Animal & Microorganisms), By Region & Competition, 2021-2031F

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Abstracts

The Global Dairy Enzymes Market is projected to expand from USD 0.74 Billion in 2025 to USD 1.13 Billion by 2031, reflecting a compound annual growth rate of 7.31%. These enzymes, such as lactase, chymosin, and lipase, serve as essential biocatalysts in milk processing to aid coagulation, refine texture, and elevate flavor. The industry is largely propelled by the growing worldwide appetite for cheese and the rising incidence of lactose intolerance, which fuels the demand for lactase in manufacturing digestible alternatives. This growth is evidenced by industrial data; according to the European Dairy Association, cheese production within the European Union rose by an estimated 2.6% in 2024 as processors shifted focus to this high-demand sector.

Despite these favorable trends, the market encounters substantial hurdles due to strict regulatory standards concerning enzyme origins and processing aids. Dealing with intricate approval systems across various global regions establishes significant barriers to entry and drives up compliance expenses. Consequently, these regulatory complexities threaten to decelerate the introduction of novel enzyme formulations to the international market, creating a challenging environment for innovation despite the sector's overall expansion.

Market Driver

The vigorous growth of the cheese processing industry serves as a major market stimulant, increasing the requirement for coagulants such as chymosin and rennet. As manufacturers expand their operations to meet consumption trends, enzymes are indispensable for ensuring consistent curd formation and optimizing yields. This rise in manufacturing output is clear in key dairy regions; according to the USDA National Agricultural Statistics Service's 'Dairy Products 2024 Summary' released in April 2025, total United States cheese production hit 14.2 billion pounds, a 0.7% rise over the prior year. Such sustained processing volume directly fuels the procurement of necessary enzymatic inputs for large-scale production.

Concurrently, increasing consumer attention to gut health is accelerating the uptake of enzymes that improve digestibility. Dairy manufacturers are frequently employing lactase to develop functional products for lactose-intolerant individuals and those seeking immunity benefits. The success of this strategy is reflected in corporate results; according to Danone's '2024 Universal Registration Document' from March 2025, over 70% of the firm's Essential Dairy and Plant-Based revenue came from functional segments like immunity and gut health. This trend reinforces the wider market, as shown by Novonosis, which reported in February 2025 that its Food & Beverages organic sales grew by 8% in 2024, led primarily by the dairy category.

Market Challenge

The primary obstacle restricting the Global Dairy Enzymes Market is the imposition of rigorous regulatory standards concerning enzyme sources and processing aids. Manufacturers must maneuver through a disjointed global compliance environment where approval protocols vary significantly among key regions like North America, Europe, and Asia. This regulatory inconsistency obliges companies to undertake multiple expensive safety evaluations and meet diverse labeling mandates for identical formulations, thereby significantly increasing operational expenses and postponing the market launch of innovative biocatalysts.

These elevated entry barriers directly reduce the pace at which new enzyme technologies can enter major international markets. The intricacy of these approval procedures frequently limits market access and dampens trade volumes in areas with changing food safety codes. For example, according to the International Dairy Federation, dairy import volumes in China fell by 15% in the first half of 2024, a decrease partly linked to the strict and evolving standards international suppliers must meet. Such challenges inevitably retard global industry expansion as resources are

shifted away from research and development toward regulatory compliance.

Market Trends

The application of enzymes to reduce sugar in flavored dairy items has become a dominant trend, fueled by growing consumer concern over added sugar levels. Producers are increasingly using specialized biocatalysts such as lactase and invertase to transform lactose into sweeter glucose and galactose, allowing for substantial sugar cuts in yogurts and flavored milks without sacrificing taste or using artificial sweeteners. This strategy has become a vital revenue source as brands strive to enhance nutritional ratings; according to the Kerry Group's 'Annual Report 2024' from March 2025, their Taste & Nutrition division realized a 5.9% EBITDA increase, driven by product renovations aimed at improving nutritional profiles.

In parallel, the emergence of cold-active lactases for energy-efficient processing is transforming industrial workflows. Dairy processors are swiftly adopting these advanced enzymes, which operate effectively at lower temperatures, to remove the need for energy-heavy heating phases during hydrolysis, thereby lowering both operating costs and carbon emissions. This shift is central to the industry's decarbonization efforts, as these solutions offer measurable sustainability benefits. The magnitude of this impact is noted by major players; according to IFF's '2024 Do More Good Report' from May 2025, their innovative offerings, including enzymes, helped customers prevent roughly 27.3 million metric tons of CO₂e emissions, highlighting the importance of biochemical efficiency.

Key Market Players

Novozymes A/S

International Flavors & Fragrances Inc

DSM-Firmenich

Kerry Group plc

Advanced Enzyme Technologies Ltd.

Amano Enzyme Inc.

Biocatalysts Ltd.

SternEnzym GmbH & Co. KG

Connell Bros. Co. LLC

Enmex

Report Scope

In this report, the Global Dairy Enzymes Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Dairy Enzymes Market, By Type

Lactase

Chymosin

Microbial Rennet

Lipase and Others

Dairy Enzymes Market, By Application

Milk

Cheese

Ice-Cream & Desserts

Yogurt

Whey

Infant Formula and Others

Dairy Enzymes Market, By Source

Plant and Animal & Microorganisms

Dairy Enzymes Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Dairy Enzymes Market.

Available Customizations:

Global Dairy Enzymes Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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