

Xylanase Market Set to Surpass USD 35.9 Billion by 2035 Amid Surging Demand for Eco-Friendly Industrial Solutions

Xylanase market is witnessing strong growth driven by rising demand in food, feed, and paper industries due to its efficiency in improving digestion.

NEWARK, DE, UNITED STATES, May 26, 2025 /EINPresswire.com/ -- In 2025, the global [xylanase market](#) was valued at approximately USD 21,662.86 million, and it is poised to reach USD 35,964.43 million by 2035, reflecting a compound annual growth rate (CAGR) of 5.2% over the forecast period. This growth trajectory is underpinned by increasing demand across key sectors such as biofuels, animal feed, and paper & pulp, driven by a broader transition toward sustainable industrial practices.



Xylanase Market

The xylanase market is gaining strong momentum owing to its versatile applications. With industries worldwide shifting towards eco-friendly and bio-based solutions, xylanase has emerged as a pivotal enzymatic solution for improving product quality and production efficiency. Its usage is expanding rapidly in the textile sector for fabric softening and enzyme washing, while government policies promoting green technologies continue to act as catalysts for market expansion. Rising consumer awareness about clean-label and sustainable products is further encouraging industries to replace harsh chemicals with enzymatic alternatives like xylanase.

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Introduction: Rising Adoption of Sustainable Enzyme Technologies Spurs Market Growth

The global xylanase market is experiencing robust expansion, driven by the increasing demand for eco-friendly enzyme solutions across various industries. From [animal feed additives](#) to paper and pulp processing, xylanase enzymes are rapidly gaining prominence for their ability to break



Driven by sustainability and efficiency, the xylanase market is unlocking new possibilities in food, feed, and pulp industries—reshaping how we process and produce globally.”

Nandini Roy Chaudhari

down hemicellulose in lignocellulosic biomass, enhancing both sustainability and productivity in industrial processes.

Market Dynamics: Key Drivers and Emerging Trends

The primary driver of the xylanase market is the increasing awareness of sustainable enzyme technologies and their benefits in reducing chemical usage. As a biocatalyst for industrial fermentation, xylanase helps in energy conservation and enhances process efficiency.

Key drivers of the xylanase market in the biotechnology sector include:

- Growing utilization in biofuel production through lignocellulosic biomass conversion
 - Expansion of the animal feed industry, where xylanase improves nutrient absorption and digestion
 - Adoption in the food and beverage sector for improving dough handling and bread volume
- Furthermore, the demand for thermostable xylanase enzymes is increasing, especially in industries that require high-temperature operations.

Industrial Applications: Versatility Across Sectors

Xylanase enzymes are widely used in industries such as:

- Animal Feed: Enhancing feed digestibility and livestock health through enzyme-based feed additives
- Pulp and Paper: Reducing chlorine usage and improving pulp brightness
- Food & Beverage: Enhancing texture, reducing viscosity, and improving product quality
- Biofuels: Facilitating lignocellulosic biomass conversion into fermentable sugars

The industrial applications of xylanase enzymes in pulp and paper have been particularly noteworthy, as companies seek to reduce environmental impact while improving efficiency.

Market Outlook

- The xylanase market is projected to grow at a CAGR of 5.2% from 2025 to 2035.
- Biofuels, animal feed, textiles, and paper industries are the key sectors driving demand.
- Rising adoption of sustainable manufacturing practices and clean-label preferences is fueling market growth.
- Enzyme engineering and biotech advancements are expanding xylanase application potential.

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Regional Market Analysis

United States (CAGR: 5.5%)

The U.S. is experiencing increased adoption of xylanase in animal feed and food processing. Sustainable paper bleaching methods are further supporting its usage. Innovation in biotech is helping improve xylanase efficiency.

United Kingdom (CAGR: 5.0%)

The UK market is growing due to demand in food & beverage and clean-label products. Natural enzyme use in baking and governmental support for sustainable agriculture are driving adoption.

European Union (CAGR: 5.4%)

Germany, France, and the Netherlands dominate xylanase usage in food, feed, and pulp sectors. Strong environmental mandates and advances in enzyme engineering are bolstering growth.

Japan (CAGR: 5.6%)

Japan's xylanase market is led by the food and pulp industries. High focus on food innovation and eco-friendly production supports steady growth. Biotech R&D enhances enzyme performance.

South Korea (CAGR: 5.3%)

Demand in South Korea is driven by animal feed and biofuel sectors. Growing investments in bio-refineries and increased enzyme-focused research are opening new avenues for market expansion.

Global Market Overview

The xylanase market is moderately consolidated, with Novozymes, DuPont, BASF, AB Enzymes, and DSM leading the global landscape. These players are actively investing in R&D, regional expansion, and sustainable innovation. Smaller biotech firms are entering the market with custom and high-specificity xylanase products, fostering healthy competition.

- Novozymes A/S
- DuPont (IFF)
- AB Enzymes
- DSM-Firmenich

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Xylanase Market Segmentation

By Grade:

- Feed grade
- Food grade
- Industrial grade

By Application:

- Animal feed
- Bakery
- Bleaching of wood pulp
- Agro waste treatment
- Others

By Region:

- North America
- Latin America
- East Asia
- South Asia & Pacific
- Eastern Europe
- Western Europe
- Middle East & Africa
- Central Asia
- Russia and Belarus
- Balkan & Baltic Countries

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