

Agricultural Enzymes Market - Growth, Trends, and Forecasts (2023 - 2028)

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Report description:

Key Highlights

The agricultural enzymes market is projected to register a CAGR of 6.5% during the forecast period.

Agricultural enzymes have gained extensive acceptance in the farming sector. The factors driving the agriculture enzyme market are the growing demand for organic food, increasing adoption of biological agricultural products, and increased R&D and market strategies by key players.

In addition, the global rise in the need for food safety due to the rapid increase in population, developments in farming technologies, and the increasing demand for chemical-free products are also supporting the market's growth. Furthermore, the increased inclination toward agro-biologicals, significant growth in organic farming, and the rise in the production yield from limited arable land are other factors that affect the global rise in the need for food safety. Thus, the agricultural enzyme industry is expected to record significant gains during the forecast period.

The increasing consumer inclination toward consuming organic foods is making farmers switch to chemical-free/safe pesticide usage. According to the Organic Trade Association, the sales growth of organic foods in the United States increased by 8.3% in 2021, accounting for 12.8% compared to 2020, which was 4.5%.

Agricultural Enzymes Market Trends

Growing Demand for Organic Food

The rising demand for organic food worldwide, along with the growing awareness about the unsafe properties of pesticides, has increased the demand for agricultural enzymes. Organic agricultural enzymes enable the production of certified, high-quality, controlled, and safe food. Therefore, they provide high economic and environment-friendly benefits and preserve a healthy ecosystem.

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Furthermore, one of the critical aspects of the growth in the agricultural enzyme market is the increasing health concerns due to a growing number of biochemical poisoning cases worldwide. The expanding usage of pesticides leaves food products with their residues, causing severe problems among people. For instance, according to FAO, in 2020, the United States was the largest pesticide-consuming country worldwide, with approximately 407.8 thousand metric tons. Brazil trailed in second, with 377.2 thousand tons consumed.

Consumers are becoming more conscious of the toxic effects caused by the presence of chemical pesticides in food products. The toxicity of chemical pesticides in food commodities can cause hormone disruptions, cancer, and congenital disabilities. The rising consumers' knowledge about the growing use of pesticides and fertilizers in farm-grown vegetables has led to the expanded adoption of organic food products.

Enzymes have features that allow them to work in low concentrations, low temperatures, mild pH, and minimal water usage. Since biodegradable, they are a popular option in organic and sustainable farming. In 2021, owing to the increased use of natural biological products, such as agricultural enzymes, the country's organic food sales grew by about 2% to reach USD 57.5 billion. This compares to a 12.8% growth rate in 2020 and a 4.6% increase in 2019. Also, organic vegetables and fruit sales increased by about 4.5% in 2021 to reach more than USD 21 billion, making up a 15% share of the entire segment. Such factors are expected to drive the agricultural enzymes market over the forecast period.

North America Holds the Largest Share in Agriculture Enzymes Consumption

North America is one of the primary consumers of agricultural enzymes globally. The United States is one of the major markets for agricultural enzymes in North America. The country is highly evolved in adopting modern technologies in the agriculture sector. The increasing cost of chemical inputs, their adverse effect on soil mass and the environment, and the increasing awareness regarding balanced plant nutrition are driving the market demand for agricultural enzymes in this country.

In August 2022, the United States Department of Agriculture (USDA) launched its new USD 300 million Organic Transition Initiative. The program is claimed to take concrete steps to build the next generation of organic producers and strengthen organic supply chains. Such programs are expected to expand the use of bio-based inputs, subsequently expanding the market in the country.

Canada is inclining toward bio-based agriculture to strengthen crop productivity and quality at an early growth stage. The Canadian agricultural enzymes market is growing in demand generation, given the increase in agricultural land size, improved agricultural sector investment, and government support. The Canadian organic sector witnessed disruptions in 2020 with the pandemic-imposed lockdown during the growing season, causing worldwide disruptions. Despite the obstacles, organic acreage increased by 19% to more than 3.5 million acres or almost 1.5 million hectares.

Agricultural Enzymes Market Competitor Analysis

The agricultural enzymes market is relatively consolidated, with major players occupying the majority of the share. Bayer CropScience, BASF SE, Corteva Agriscience, Stoller USA Inc., and Syngenta AG are the key players in the market studied. The companies are adopting various strategic activities, such as product innovation, expansion, partnership, and mergers & acquisitions. The players are partnering with other companies to build a strong presence in the market while researching collaboratively.

Additional Benefits:

The market estimate (ME) sheet in Excel format

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