

## **Agricultural Enzymes - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

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### **Report description:**

The Agricultural Enzymes Market size is estimated at USD 359.01 million in 2025, and is expected to reach USD 491.88 million by 2030, at a CAGR of 6.5% during the forecast period (2025-2030).

### **Key Highlights**

- The agricultural enzymes market has become a pivotal segment in the broader agricultural industry, emphasizing enhancements in crop productivity, soil health, and sustainable farming practices. Driven by consumer demand and regulatory pressures for sustainable practices, the adoption of agricultural enzymes has surged. These enzymes diminish the dependence on chemical inputs, championing eco-friendly farming. According to the Research Institute of Organic Agriculture, organic food sales grew from USD 132 billion to USD 134 billion from 2021 to 2023. This rising trend of organic food consumption has raised organic farming which has fueled the demand for agricultural enzymes. Organic farmers utilize these enzymes to bolster soil health and boost crop yields, all without resorting to synthetic chemicals. Moreover, enzymes along with select microbes are being used in agriculture as a healthier and organic replacement for chemicals, thus driving the market's growth.
- Moreover, there's an increasing recognition of the need to uphold soil health for sustained agricultural productivity. Agricultural enzymes are instrumental in decomposing organic matter, boosting nutrient availability, and refining soil structure, all vital for robust soil health. The need for increased crop yields, despite limited arable land, has further fueled the demand for agricultural enzymes. For instance, according to the Hungarian Central Statistical Office, the arable land area decreased overall in Hungary. In 2024, the arable land area totaled around 4,132 thousand hectares in the country which decreased from 4,154 thousand hectares compared to the previous year. Therefore, with the rising demand for sustainable farming and organic produce, the agricultural enzymes market is on a growth path. Despite its growth trajectory, the agricultural enzymes market grapples with challenges such as high enzyme production costs, regional awareness gaps, and diverse regulatory landscapes. Coupled with technological strides and heightened awareness of enzyme benefits, the market is set for continued expansion, underscoring its significance in

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the future of global agriculture.

## Agricultural Enzymes Market Trends

### Cereals and Grains Holds Significant Shares by Crop Type

The adoption of agricultural enzymes is on the rise, particularly in the cultivation of cereals and grains. Environmental concerns about the overuse of chemicals in agriculture have highlighted the issue of chemical residues in crops. For example, FAO data from 2022 revealed that Antigua and Barbuda led in agricultural pesticide consumption, using over 36.59 kilograms per hectare of cropland, with Qatar closely following at 35.11 kilograms per hectare. This has driven a shift towards safer alternatives like enzymes. Additionally, the use of enzymes in cereal production has shown benefits such as improved moisture retention, increased root biomass, and faster organic matter decomposition, further encouraging their global adoption in cereal and grain cultivation.

Moreover, as consumers become more health-conscious, there is a noticeable shift towards organic foods to avoid the negative health effects associated with chemical preservatives. This trend has expanded the scope of organic farming. For instance, FibL data indicates that the organic area for cereals grew from 5.5 million hectares in 2021 to 5.6 million hectares in 2022. These developments underscore the increasing use of enzymes in organic farming. With the organic food industry growing and a strong emphasis on food safety, the adoption of agricultural enzymes in cereal and grain crops is set to increase, signaling a positive trend for the segment in the coming years.

### North America Dominates the Market

North America leads the globe in the consumption of agricultural enzymes, with the United States taking the forefront. The U.S. agriculture sector swiftly adopts modern technologies. Factors such as rising costs of chemical inputs, their harmful impacts on soil and the environment, and an increased awareness of balanced plant nutrition are driving the demand for agricultural enzymes in the U.S. Additionally, strong government initiatives in the region further fuel this market's expansion. For instance, in August 2022, the U.S. Department of Agriculture (USDA) launched the USD 300 million Organic Transition Initiative, aiming to nurture the next generation of organic producers and strengthen organic supply chains. Such measures are likely to boost the adoption of bio-based inputs, including agricultural enzymes, thus broadening the market in North America.

Canada is witnessing a clear pivot towards bio-based agriculture, focusing on improved crop productivity and quality from the early growth stages. This rising inclination towards organic products, supported by government backing, is encouraging industry players to enhance their services in the region. For example, in March 2024, Novonosis expanded its partnership with FMC, appointing FMC as the exclusive distributor for select Novonosis agricultural bio-solutions in Canada, effective from the 2025 growing season. In Mexico, a growing appetite for organic and natural foods, coupled with a trend towards sustainable farming, has increased the demand for naturally sourced agricultural inputs. According to the 2023 Statistical Yearbook of Agricultural Production, over 54 thousand hectares in Mexico were dedicated to organic crops, with approximately 52 thousand hectares successfully harvested. These trends are poised to further drive the market's growth in the coming years. Thus, with supportive government measures and a rising emphasis on organic farming, the agricultural enzymes market is set to flourish during the forecast period.

### Agricultural Enzymes Industry Overview

The Agricultural Enzymes market is moderately consolidated, with major players such as Bayer CropScience, Elemental Enzymes, Corteva Agriscience, Infinita Biotech Private Limited., and Syngenta AG occupying a significant market shares. The companies are

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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
- 3 months of analyst support

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