

# **Agriculture Enzymes Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Phosphatases, Dehydrogenases, Proteases, Sulfatases and Others), By Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, Turf & Ornamentals and Others), By Region and Competition**

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## **Abstracts**

Global Agriculture Enzymes Market has valued at USD 364.52 Million in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 8.60% through 2028. Enzymes, which are typically proteins, serve as biological catalysts that accelerate chemical reactions. In agriculture, enzymes act as catalysts that unlock nutrients in the soil, making them available to plant roots. By replacing the use of chemicals in food production and protection, these enzymes ensure that essential nutrients, which would otherwise remain bound to the soil, are made accessible to plants. Incorporating agricultural enzymes into feed promotes higher plant yield and improved quality.

Moreover, agricultural enzymes play a crucial role in enhancing crop fertility and safeguarding plants against pests and diseases. They find extensive application in various biotechnological processes, including fiber bio-processing, crop and crop residue processing, enzyme-assisted silage fermentation, and the production of animal feed supplements. Enzymes are vital for the growth of oilseeds, pulses, fruits and vegetables, grains, and cereals. The increasing popularity of agricultural enzymes is attributed to their ability to modify the quality of end-products. The widespread use of agricultural enzymes in the industry has been driven by their proven ability to boost crop production. Additionally, they facilitate the decomposition of plant residues, support root

development, and promote early sprouting during the initial stages of plant growth. Furthermore, the application of agricultural enzymes plays a crucial role in combating land degradation, addressing climate change, and addressing food security challenges. Technological advancements in the agricultural enzyme field, such as the development of phytases and silage fermentation techniques, have significantly expanded both their manufacturing capacity and application.

## Key Market Drivers

### Rising Inclination for Organic Food

The global trend towards organic food is steadily increasing, which in turn is expected to drive the demand for agriculture enzymes. Organic farming practices rely heavily on natural methods of enhancing crop productivity and maintaining soil health, creating an ideal platform for the use of agricultural enzymes. These biocatalysts play a crucial role in enhancing nutrient absorption, promoting plant growth, and protecting crops from pests and diseases. As consumers become more health-conscious and aware of the environmental impact of conventional farming, the demand for organically grown food has skyrocketed. This rising preference for organic food has prompted farmers to seek eco-friendly and efficient farming solutions, elevating the importance of agricultural enzymes in organic farming. Moreover, the enzymes' capacity to replace harmful agricultural chemicals is found to be crucial in maintaining the ecological balance and reducing the environmental footprint. The continuous research efforts to innovate and develop effective and tailored enzyme solutions for diverse agricultural needs further boost their demand. Therefore, the burgeoning inclination towards organic food is expected to significantly influence the agricultural enzymes market, potentially leading to unprecedented growth rates globally.

### Growing Incidences of Plant Diseases

The rising occurrences of plant diseases globally have prompted an urgent need for effective solutions, leading to a surge in the demand for agricultural enzymes. These bioactive proteins play a pivotal role in disease management by improving the health and immunity of plants, thus decreasing their susceptibility to diseases. They aid in enhancing nutrient absorption and optimizing plant metabolic processes. Consequently, they fortify plants against harmful pathogens and adverse climatic conditions, reducing disease incidences significantly. The increasing adoption of green and sustainable farming methods is further stimulating the use of agricultural enzymes as they are eco-friendly and pose minimal threats to the environment compared to their chemical

counterparts. The growing awareness among farmers about these benefits, coupled with supportive government initiatives promoting the use of bio-based solutions in agriculture, is anticipated to fuel the demand for agricultural enzymes. Furthermore, the escalating need to improve crop yield and quality to cater to the global food demand amidst the rising population is expected to continue driving the agricultural enzymes market expansion.

### Increasing Food Safety & Quality Concerns Among Consumers

A critical factor driving the global demand for Agriculture Enzymes is the increasing concern among consumers regarding food safety and quality. With rising awareness of the harmful effects of chemical fertilizers, consumers are advocating for organic farming and naturally grown produce. As a result, farmers worldwide are recognizing the necessity of implementing sustainable agricultural practices, including the use of Agriculture Enzymes. These naturally occurring proteins promote plant growth, improve soil health, and contribute to higher crop yields without negatively impacting the environment. Furthermore, Agriculture Enzymes also play a crucial role in reducing the risk of plant diseases, thus ensuring the delivery of healthier, superior-quality crops. This shift towards healthier and safer food products has led to a surge in the demand for Agriculture Enzymes. Moreover, governments globally are implementing stricter regulations on food safety, which further necessitates the adoption of Agriculture Enzymes. Thus, as consumers continue to prioritize food safety and quality, the Agriculture Enzymes market is anticipated to witness significant growth in the coming years.

### Technological Advancements in Agricultural Practices

Technological advancements in agricultural practices are anticipated to stimulate global demand for agriculture enzymes. As farming practices evolve, the integration of cutting-edge technology is expected to escalate, promoting efficiency and productivity. Precision farming, a technique incorporating GPS and GIS technologies, is one such example. It optimizes the application of inputs, such as agriculture enzymes, based on the specific requirements of a field, minimizing waste and maximizing yield. Additionally, the advent of bioinformatics in agriculture facilitates the identification and understanding of beneficial enzymes, expediting their incorporation into farming practices. The escalating rise of vertical and indoor farming, driven by urbanization, also demands precise input application, creating an avenue for agriculture enzymes. The use of these enzymes in such controlled environments supports nutrient uptake and healthy plant growth, contributing to farming sustainability. Furthermore, technological advancements

have led to the creation of enzyme-coated seeds, which have shown promise in enhancing plant resilience and yield, further driving demand. Therefore, these technological developments, promoting efficiency, sustainability, and productivity in agriculture, are expected to fuel the global demand for agriculture enzymes.

## Key Market Challenges

### High Cost of Production & Pricing of Agricultural Enzymes

The high cost of production and pricing of agricultural enzymes is a significant challenge that could potentially decrease global demand. Agricultural enzymes are robust catalysts used in facilitating complex biochemical reactions that enhance soil fertility, crop protection, and plant growth regulation. However, their production involves complex extraction processes and stringent purification methods, all of which contribute to the elevated costs. High pricing of these enzymes is a direct consequence of these expensive production processes. Many small-scale farmers and developing countries find it difficult to afford these high-cost enzymes, which makes them less attractive, despite their numerous benefits. The underprivileged farmers still rely on traditional farming methods due to the high upfront costs of these enzymes. Furthermore, limited knowledge and understanding of the effectiveness of these enzymes also contribute to the lower demand, particularly in developing regions. Therefore, while agricultural enzymes hold great promise for the future of sustainable farming and improved crop yield, their high production costs and subsequent pricing stand as an obstacle to widespread adoption, threatening to dampen global demand.

### Varying & Stringent Regulatory Policies Across Different Countries

The demand for agriculture enzymes is anticipated to experience a decline due to varying and stringent regulatory policies across different countries. These enzymes, although beneficial in enhancing crop productivity and health, are subject to rigorous regulatory scrutiny due to their potential environmental and health impacts. In several countries, the regulatory authorities have tightened the rules for the approval and usage of agriculture enzymes, necessitating extensive toxicity and environmental impact studies before their commercial release. This process is both time-consuming and expensive, thus deterring manufacturers from investing in this field and consequently leading to a lower market supply. Moreover, the lack of harmonization in regulatory policies worldwide adds another layer of complexity. The rules governing the use of agriculture enzymes vary significantly from one country to another, causing uncertainty and inconsistency in the global market. Manufacturers must comply with each country's

specific requirements, which can be a daunting task, particularly for smaller businesses. Hence, these regulatory challenges put a damper on the global demand for agricultural enzymes. Further, there is a growing call for transparency and traceability in the food supply chain, intensifying the regulatory pressure on agriculture enzyme producers. As a consequence, all these factors combined are expected to decrease the global demand for agriculture enzymes.

## Key Market Trends

### Enhancing Soil Fertility & Crop Quality

Soil fertility and crop quality are integral components of agricultural productivity. The rising global demand for high-quality, nutrient-rich crops necessitates innovative solutions to enhance soil fertility and crop yield. This presents an opportunity for the increased utilization of agricultural enzymes. These bio-stimulants, derived from natural sources, are known to improve soil health, nutrient absorption, and plant growth. They facilitate essential processes such as nitrogen fixation, phosphorus solubilization, and organic matter decomposition, which are crucial in maintaining soil fertility. Increasing awareness about the detrimental effects of chemical fertilizers on soil health and ecosystem balance is nudging farmers towards organic and sustainable farming practices, including the use of agricultural enzymes. Additionally, the enzymes increase the nutritional value and quality of the produce, thereby meeting the consumer demand for healthier food options. The use of agricultural enzymes also aligns with the global movement towards sustainable agriculture, as they reduce the reliance on non-renewable resources and limit the environmental impact of farming. Consequently, the demand for agricultural enzymes is expected to surge globally, driven by the need to improve soil fertility and enhance crop quality. This trend is amplified by supportive government policies promoting sustainable farming and the growing need to ensure food security amid rising global population.

### Increasing Trend of Vertical Farming & Indoor Gardening

Vertical farming and indoor gardening are rapidly gaining traction globally. This burgeoning trend is expected to significantly drive the demand for agriculture enzymes. These controlled farming methods call for the intricate understanding and application of agricultural science, which is where agriculture enzymes come into play. Enzymes are organic catalysts that expedite plant growth and help in the effective breakdown of nutrients, making them more accessible and easier to absorb for the plants. In vertical farming, space is optimized by growing plants in vertical layers, often indoors. These

conditions necessitate efficient nutrient use, wherein enzymes play a crucial role. Similarly, indoor gardening, which involves growing plants inside residences or buildings, also requires enzymes for effective plant growth. The surge in urbanization and the concomitant reduction in arable land are prompting the exploration of such innovative farming methods. Furthermore, the emphasis on organic food and sustainable farming practices is expected to fuel the demand for agriculture enzymes. As these modern farming techniques become more popular, the use of agricultural enzymes will likely rise in tandem, impacting the global market positively. Thus, the increasing trend of vertical farming and indoor gardening is poised to propel the global demand for agriculture enzymes.

## Segmental Insights

### Type Insights

Based on the Type, Phosphatases, a type of enzyme that catalyses the removal of a phosphate group from its substrate, play a crucial and multifaceted role in crop nutrition. By facilitating the conversion of nutrients within the soil, they actively contribute to the optimization of nutrient availability for plants, ensuring their optimal growth and development. This pivotal function makes phosphatases indispensable in agricultural practices, where they significantly enhance both the productivity and sustainability of crop production systems.

The dominance of phosphatases in the Agriculture Enzymes Market can be attributed to their extensive application in improving soil fertility and promoting environmentally conscious farming practices. Their ability to efficiently break down organic phosphate compounds into inorganic forms makes them instrumental in releasing phosphorus, a vital nutrient for plant growth, from organic matter and making it readily accessible to crops. This not only enhances the overall nutrient uptake efficiency but also minimizes the potential loss of phosphorus through leaching or immobilization, thus contributing to sustainable soil management and conservation. In addition to their role in nutrient cycling, phosphatases also play a crucial part in the regulation of soil microbiota. They contribute to the establishment of a diverse and balanced microbial community, which in turn influences various soil processes, such as organic matter decomposition, disease suppression, and nutrient cycling. By fostering a favourable soil microbial environment, phosphatases support the overall health and resilience of agricultural ecosystems.

### Crop Type Insights

Based on the Crop Type, Cereals and grains, being widely cultivated across different countries, are expected to be a major driving force for the agricultural enzymes industry. Enzymes play a crucial role in the processing of cereals, enhancing their quality and protecting crops from diseases. These enzymes have the remarkable ability to remove bran and germs from harvested crops, further improving their nutritional value. Moreover, the growing awareness among consumers about the harmful effects of chemical-based agriculture has led to a shift in preferences towards organic fruits and vegetables. Pesticides used in conventional crop production not only pose risks to living organisms but also contribute to environmental degradation. In response to these concerns, governments have implemented regulations to control the sale and use of pesticides, which is anticipated to have a positive impact on the agriculture industry as a whole.

Furthermore, organic foods, including popular choices like apples, bananas, and strawberries, offer various health benefits such as immune system enhancement, cancer prevention, and reduction of inflammation. These compelling factors are projected to drive the demand for agricultural enzymes in the foreseeable future, as consumers increasingly seek out healthier and more sustainable food options.

## Regional Insights

The North America region is currently dominating the Global Agriculture Enzymes Market. This dominance can be attributed to the region's advanced agricultural practices, including precision farming techniques, efficient irrigation systems, and the use of genetically modified crops. Additionally, the early adoption of innovative farming solutions, such as smart farming technologies and biotechnology advancements, further contribute to the region's success in the market.

The United States, being one of the largest agricultural producers in the world, significantly contributes to the market growth in North America. With its vast farmland and diverse agricultural landscape, the country has embraced the use of enzymes to enhance soil fertility, improve crop yield, and optimize resource utilization. Moreover, the growing awareness among farmers about the benefits of enzymes in sustainable farming practices has fostered their adoption in the region.

Supportive government initiatives have also played a crucial role in propelling the market growth of agriculture enzymes in North America. Policies promoting sustainable agriculture, conservation practices, and environmental stewardship have encouraged farmers to incorporate enzyme-based solutions into their farming practices. This

alignment of government support with the increasing demand for sustainable and eco-friendly agriculture has created a favorable environment for the expansion of the agriculture enzymes market in the region.

### Key Market Players

Novozymes A/S

China National Chemical Corporation

DuPont de Nemours, Inc

Koninklijke DSM N.V.

BASF SE

Bayer CropScience AG

Agrinos AS

Stoller USA, Inc.

BioWorks, Inc.

Ab Enzymes GmbH

### Report Scope:

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

#### Agriculture Enzymes Market, By Type:

Phosphatases

Dehydrogenases

Proteases



Sulfatases

Others

Agriculture Enzymes Market, By Crop Type:

Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetables

Turf & Ornamentals

Others

Agriculture 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

Kuwait

Turkey

Egypt

Competitive Landscape

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

### Available Customizations:

Global Agriculture Enzymes market report with the given market data, Tech Sci 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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