

Global Agricultural Enzymes Market Size study, by Type (Beta-Glucosidase, Cellulases, Dehydrogenases, Phosphatases, Proteases, Sulfatases, Ureases), by Product (Growth Enhancing Products, Soil Fertility Products), by Crop Type (Cereals & Grains, Fruits & Vegetables, Herbs & Spices, Oilseeds & Pulses, Turfs & Ornamentals) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GA0A0CFFE48FEN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GA0A0CFFE48FEN

Abstracts

Global Agricultural Enzymes Market is valued approximately at USD 480.76 million in 2023 and is anticipated to grow with a healthy growth rate of more than 12.18% over the forecast period 2024-2032. Agricultural enzymes, essential for enhancing crop productivity, soil health, and providing protection against pests and diseases, play a crucial role in modern agricultural practices. These biologically sourced products catalyze vital biochemical reactions, ensuring optimal plant growth and resilience. The market encompasses a wide range of applications, including soil fertility, seed treatment, and plant growth regulation. The increasing global population and the consequent pressure to boost food production are driving the demand for agricultural enzymes. The rising preference for organic products further fuels the adoption of natural agricultural inputs, including enzymes. Additionally, favorable policies aimed at reducing chemical usage and the focus on improving enzyme formulations to enhance their functionality, stability, and weather resilience are anticipated to expand the market scope. The integration of smart farming technologies with enzyme-based products to optimize application and efficiency is expected to create significant growth opportunities. Challenges in the agricultural enzymes market include the high costs associated with advanced enzyme formulations and potential regulatory hurdles. However, innovations geared towards reducing environmental impact, such as biodegradable enzymes and precise application technologies like enzyme-based drones, are paving the way for

future growth. Increased awareness among farmers regarding the benefits of contamination-free food and the exploration of untapped markets in developing regions present substantial growth potential for market players.

Key regions considered for the global agricultural enzymes market study include North America, Europe, Asia Pacific, Latin America, and Rest of the World. In 2023, North America dominated the market, driven by strong consumer demand for organic agricultural products and ongoing research and development activities for novel product development. The Asia Pacific region is expected to witness highest CAGR, which is led by countries such as China, India, and Australia, due to their vast agricultural sectors and the crucial role of enzymes in enhancing crop productivity. Also, the region is experiencing robust growth, driven by the increasing focus on food security and government encouragement of sustainable agricultural practices.

Major market players included in this report are:

Novozymes A/S

BASF SE

Bayer AG

Syngenta AG

Corteva, Inc.

FMC Corporation

Advanced Bio-Agro Tech Limited

AB Enzymes GmbH

BioResource International, Inc.

Elemental Enzymes

Ginkgo Bioworks, Inc.

Infinita Biotech Private Limited

Stoller USA, Inc.

American Biosystems, Inc.

Caprienzymes

The detailed segments and sub-segment of the market are explained below:

By Type

- Beta-Glucosidase
- Cellulases
- Dehydrogenases
- Phosphatases
- Proteases
- Sulfatases
- Ureases

By Product

- Growth Enhancing Products

- Soil Fertility Products

By Crop Type

- Cereals & Grains
- Fruits & Vegetables
- Herbs & Spices
- Oilseeds & Pulses
- Turfs & Ornamentals

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico
- RoLA

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.

- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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