

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

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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.

Contents

CHAPTER 1. GLOBAL AGRICULTURAL ENZYMES MARKET EXECUTIVE SUMMARY

- 1.1. Global Agricultural Enzymes Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Type
 - 1.3.2. By Product
 - 1.3.3. By Crop Type
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL AGRICULTURAL ENZYMES MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AGRICULTURAL ENZYMES MARKET DYNAMICS

Global Agricultural Enzymes Market Size study, by Type (Beta-Glucosidase, Cellulases, Dehydrogenases, Phosphat...

3.1. Market Drivers

- 3.1.1. Increasing global population and food production pressure
- 3.1.2. Rising demand for organic products
- 3.1.3. Favorable policies for reducing chemical usage

3.2. Market Challenges

- 3.2.1. High costs associated with advanced enzyme formulations
- 3.2.2. Regulatory hurdles

3.3. Market Opportunities

- 3.3.1. Innovations in biodegradable enzymes
- 3.3.2. Integration with smart farming technologies
- 3.3.3. Untapped markets in developing regions

CHAPTER 4. GLOBAL AGRICULTURAL ENZYMES MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AGRICULTURAL ENZYMES MARKET SIZE & FORECASTS BY TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global Agricultural Enzymes Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Million)

5.2.1. Beta-Glucosidase

5.2.2. Cellulases

5.2.3. Dehydrogenases

5.2.4. Phosphatases

5.2.5. Proteases

5.2.6. Sulfatases

5.2.7. Ureases

CHAPTER 6. GLOBAL AGRICULTURAL ENZYMES MARKET SIZE & FORECASTS BY PRODUCT 2022-2032

6.1. Segment Dashboard

6.2. Global Agricultural Enzymes Market: Product Revenue Trend Analysis, 2022 & 2032 (USD Million)

6.2.1. Growth Enhancing Products

6.2.2. Soil Fertility Products

CHAPTER 7. GLOBAL AGRICULTURAL ENZYMES MARKET SIZE & FORECASTS BY CROP TYPE 2022-2032

7.1. Segment Dashboard

7.2. Global Agricultural Enzymes Market: Crop Type Revenue Trend Analysis, 2022 & 2032 (USD Million)

7.2.1. Cereals & Grains

7.2.2. Fruits & Vegetables

7.2.3. Herbs & Spices

7.2.4. Oilseeds & Pulses

7.2.5. Turfs & Ornamentals

CHAPTER 8. GLOBAL AGRICULTURAL ENZYMES MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Agricultural Enzymes Market

8.1.1. U.S. Agricultural Enzymes Market

8.1.1.1. Type breakdown size & forecasts, 2022-2032

- 8.1.1.2. Product breakdown size & forecasts, 2022-2032
- 8.1.1.3. Crop Type breakdown size & forecasts, 2022-2032
- 8.1.2. Canada Agricultural Enzymes Market
- 8.2. Europe Agricultural Enzymes Market
 - 8.2.1. U.K. Agricultural Enzymes Market
 - 8.2.2. Germany Agricultural Enzymes Market
 - 8.2.3. France Agricultural Enzymes Market
 - 8.2.4. Spain Agricultural Enzymes Market
 - 8.2.5. Italy Agricultural Enzymes Market
 - 8.2.6. Rest of Europe Agricultural Enzymes Market
- 8.3. Asia-Pacific Agricultural Enzymes Market
 - 8.3.1. China Agricultural Enzymes Market
 - 8.3.2. India Agricultural Enzymes Market
 - 8.3.3. Japan Agricultural Enzymes Market
 - 8.3.4. Australia Agricultural Enzymes Market
 - 8.3.5. South Korea Agricultural Enzymes Market
 - 8.3.6. Rest of Asia Pacific Agricultural Enzymes Market
- 8.4. Latin America Agricultural Enzymes Market
 - 8.4.1. Brazil Agricultural Enzymes Market
 - 8.4.2. Mexico Agricultural Enzymes Market
 - 8.4.3. Rest of Latin America Agricultural Enzymes Market
- 8.5. Middle East & Africa Agricultural Enzymes Market
 - 8.5.1. Saudi Arabia Agricultural Enzymes Market
 - 8.5.2. South Africa Agricultural Enzymes Market
 - 8.5.3. Rest of Middle East & Africa Agricultural Enzymes Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Novozymes A/S
 - 9.1.2. BASF SE
 - 9.1.3. Bayer AG
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Novozymes A/S
 - 9.3.2. BASF SE
 - 9.3.3. Bayer AG
 - 9.3.4. Syngenta AG
 - 9.3.5. Corteva, Inc.

- 9.3.6. FMC Corporation
- 9.3.7. Advanced Bio-Agro Tech Limited
- 9.3.8. AB Enzymes GmbH
- 9.3.9. BioResource International, Inc.
- 9.3.10. Elemental Enzymes
- 9.3.11. Ginkgo Bioworks, Inc.
- 9.3.12. Infinita Biotech Private Limited
- 9.3.13. Stoller USA, Inc.
- 9.3.14. American Biosystems, Inc.
- 9.3.15. Caprienzymes

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Agricultural Enzymes Market, Report Scope

TABLE 2. Global Agricultural Enzymes Market Estimates & Forecasts by Region
2022-2032 (USD Million)

TABLE 3. Global Agricultural Enzymes Market Estimates & Forecasts by Type
2022-2032 (USD Million)

TABLE 4. Global Agricultural Enzymes Market Estimates & Forecasts by Product
2022-2032 (USD Million)

TABLE 5. Global Agricultural Enzymes Market Estimates & Forecasts by Crop Type
2022-2032 (USD Million)

TABLE 6. U.S. Agricultural Enzymes Market Estimates & Forecasts, 2022-2032 (USD
Million)

TABLE 7. Canada Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 8. U.K. Agricultural Enzymes Market Estimates & Forecasts, 2022-2032 (USD
Million)

TABLE 9. Germany Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 10. France Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 11. Spain Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 12. Italy Agricultural Enzymes Market Estimates & Forecasts, 2022-2032 (USD
Million)

TABLE 13. China Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 14. India Agricultural Enzymes Market Estimates & Forecasts, 2022-2032 (USD
Million)

TABLE 15. Japan Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 16. Australia Agricultural Enzymes Market Estimates & Forecasts, 2022-2032
(USD Million)

TABLE 17. South Korea Agricultural Enzymes Market Estimates & Forecasts,
2022-2032 (USD Million)

TABLE 18. Brazil Agricultural Enzymes Market Estimates & Forecasts, 2022-2032 (USD
Million)

.....

This list is not complete; the final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Agricultural Enzymes Market, Research Methodology
- FIG 2. Global Agricultural Enzymes Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Agricultural Enzymes Market, Key Trends 2023
- FIG 5. Global Agricultural Enzymes Market, Growth Prospects 2022-2032
- FIG 6. Global Agricultural Enzymes Market, Porter's 5 Force Model
- FIG 7. Global Agricultural Enzymes Market, PESTEL Analysis
- FIG 8. Global Agricultural Enzymes Market, Value Chain Analysis
- FIG 9. Global Agricultural Enzymes Market by Type, 2022 & 2032 (USD Million)
- FIG 10. Global Agricultural Enzymes Market by Product, 2022 & 2032 (USD Million)
- FIG 11. Global Agricultural Enzymes Market by Crop Type, 2022 & 2032 (USD Million)
- FIG 12. Global Agricultural Enzymes Market, Regional Snapshot 2022 & 2032
- FIG 13. North America Agricultural Enzymes Market 2022 & 2032 (USD Million)
- FIG 14. Europe Agricultural Enzymes Market 2022 & 2032 (USD Million)
- FIG 15. Asia-Pacific Agricultural Enzymes Market 2022 & 2032 (USD Million)
- FIG 16. Latin America Agricultural Enzymes Market 2022 & 2032 (USD Million)
- FIG 17. Middle East & Africa Agricultural Enzymes Market 2022 & 2032 (USD Million)
- FIG 18. Global Agricultural Enzymes Market, Company Market Share Analysis (2023)

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