

Biological Seed Treatment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Microbials, Botanicals & Others), By Crop (Corn, Wheat, Soybean, Cotton, Sunflower, Vegetable Crops, Other Crops), By Treatment Method (Seed Coating, Seed Dressing and Seed Pelleting), By Function (Seed Enhancement and Seed Protection), By Region and Competition

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Abstracts

Global Biological Seed Treatment Market was valued at USD 1.34 Billion in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 8.78% through 2028. Biological seed treatment, a technique widely recognized for its effectiveness, involves the application of active ingredients to seeds. These ingredients, which may consist of microorganisms like fungi and bacteria, as well as extracts derived from plants and algae, are carefully administered in either powder or liquid form. The seeds are coated with a uniform layer of this biological material, ensuring comprehensive coverage and protection against pathogenic fungi. One of the key benefits of biological seed treatment lies in its ability to enhance plant resilience. By fortifying plants, seeds, and saplings against fungal damage, this treatment empowers them to thrive in challenging environments. Moreover, natural seed treatment has been found to stimulate vital processes such as nitrogen fixation, cell division, and root development, all of which contribute to robust plant growth and increased resistance to various stressors. Biological seed treatment represents a comprehensive approach to seed protection and growth optimization. With its multifaceted advantages, it stands as a valuable tool for farmers seeking to achieve sustainable and prosperous agricultural practices.

Key Market Drivers

Biotechnological Advancements in Agriculture

Biotechnological advancements in agriculture are set to drive global demand for biological seed treatment. The emerging focus on sustainable farming and the growing awareness of chemical pesticide hazards are already nudging the market towards biological solutions. Biotech developments arm farmers with genetically enhanced seeds that are resistant to pests and diseases, reducing the need for chemical treatments. Furthermore, these advancements can lead to seeds that are more adaptable to various climate conditions, ensuring consistent yields. The introduction of modern biological seed treatments, aided by advancements in biotech, can increase crop yield, improve plant health, and enhance the nutritional value of produce. This, in turn, has a positive impact on food security, a key concern in an ever-growing global population. Moreover, innovative biotech solutions ensure the preservation of beneficial soil microorganisms, thus promoting biodiversity. With consumers increasingly preferring organically grown produce, the demand for biological seed treatment is expected to surge globally. Therefore, it can be anticipated that the intertwining of biotechnological advancements with agriculture will significantly propel the global trend towards biological seed treatments.

Surging Demand for Chemical-Free Crops

The global demand for biological seed treatment is expected to see a substantial increase due to the surging demand for chemical-free crops. Consumers worldwide are becoming more conscious of their dietary choices, favoring organically grown produce which are free from harmful chemical pesticides and genetically modified organisms (GMO). This trend towards healthier, more natural food is driving a shift in farming practices, with farmers turning to biological seed treatment as a more sustainable, environmentally-friendly alternative to traditional chemical pesticides. Biological seed treatments, which utilize beneficial microorganisms to protect seeds from pests and diseases, not only align with the organic farming ethos, but also boost crop yields and improve soil health. Their use instills confidence among consumers about the safety and quality of their food, thereby strengthening market demand. Furthermore, regulatory bodies across the globe are imposing stricter regulations on the use of chemical pesticides, further bolstering the adoption of biological seed treatments. As a result of these factors, the global biological seed treatment market is poised for significant growth in the coming years.

Cost-Effectiveness of Biological Seed Treatments

The global recognition of the cost-effectiveness of biological seed treatments is expected to surge the demand for this method worldwide. These seed treatments are an affordable and sustainable solution to enhance crop yield and farm productivity. Unlike conventional chemical treatments, they reduce the dependency on synthetic fertilizers and pesticides, thereby cutting down the overall production costs for farmers. This eco-friendly alternative introduces beneficial microorganisms that naturally protect seeds against diseases and pests, increasing the viability and vigor of crops. By doing so, it not only improves the quality of the produce, but also elevates the crop yield per unit area, leading to incremental profits for farmers. Moreover, the increasing global focus on sustainable agriculture practices is projected to further amplify the demand for biological seed treatments. Governments and international bodies are actively promoting the use of such organic methods, making them an economically attractive option for farmers. Additionally, the long-term cost savings in terms of soil health and reduced environmental pollution also contribute to the overall cost-effectiveness of these treatments. Consequently, the demand for biological seed treatments is anticipated to grow exponentially in the coming years, creating a substantial impact on the global agriculture industry.

Escalating Global Population

The escalating global population is anticipated to significantly increase the demand for biological seed treatment across the world. As the population expands, the necessity to boost food production surges, intensifying the need for high-quality and disease-free crops. This is where biological seed treatment comes into play. It uses beneficial microbes to protect seeds from diseases and pests, enhancing crop yields without causing any environmental harm. Furthermore, as resources such as land and water become scarce with an increasing population, the pressure to maximize yield from every inch of agricultural land intensifies. Biological seed treatment offers an economical and eco-friendly solution for this. It not only facilitates the growth of healthier and more robust crops but also improves soil fertility. The rising awareness about the harmful impact of synthetic agrochemicals is pushing farmers towards organic farming practices, further fueling the need for biological seed treatments. Hence, as the global population continues to soar, the demand for biological seed treatment is expected to witness a significant uptick globally.

Key Market Challenges

Lack of Awareness in Developing Economies

The lack of awareness and understanding in developing economies is anticipated to have a significant impact on the worldwide demand for Biological Seed Treatment. In many regions, farmers remain uninformed about the numerous benefits associated with biological seed treatment, such as the potential for increased crop yield and enhanced disease and pest resistance. These benefits are crucial for ensuring food security and sustainable agricultural practices. The reliance on traditional farming practices, which are often less effective and lack long-term sustainability, further exacerbates the situation. Additionally, the lack of knowledge about the potential impact of climate change on crop production adds another layer of complexity to the challenges faced by farmers.

Moreover, the relatively high cost of biological seed treatment products and technologies, coupled with the low income of farmers in these economies, creates an additional barrier to adoption. While there are concerted efforts underway to educate farmers and promote the use of biological seed treatment, it is important to acknowledge that changing deeply embedded traditional farming practices takes time. As a result, the global demand for Biological Seed Treatment is likely to experience a decline in the short-term. However, with continued education and support, there is hope for gradual adoption and recognition of the long-term benefits associated with this innovative approach to seed treatment.

Limited Shelf Life

Biological Seed Treatment, though beneficial for crop yield and promoting sustainable agriculture, faces a significant demand-constraining factor in its inherent limited shelf life. The vitality of the microorganisms utilized in these treatments is pivotal to their effectiveness, but these are subject to deterioration over time. This short 'use by' period invariably challenges storage, logistics, and distribution, heightening costs and complicating planning for both suppliers and end-users. Moreover, it increases the risk of waste, as any unused treatments passing their shelf life become ineffective and must be discarded. For farmers operating in regions with unpredictable weather patterns, the risk of not being able to utilize the treatments within their shelf life is even more pronounced. Globally, these factors pose significant obstacles that may deter potential users, thereby potentially decreasing the overall demand for Biological Seed Treatment. As the world increasingly strives towards achieving sustainable agriculture, solutions to extend the shelf life of these treatments without compromising their efficacy are urgently

needed.

Key Market Trends

Rising Demand for Sustainable Agriculture

As consumers become increasingly conscious of the environmental impact of agriculture, there is a discernible shift towards sustainable farming practices. This includes the adoption of biological seed treatments, which are carefully formulated to support and promote environmentally-friendly farming methods. These treatments, derived from natural sources, offer a range of benefits beyond conventional seed treatments. By harnessing the power of nature, biological seed treatments not only help improve crop yields, but they also enhance plant resilience, ensuring better protection against pests and diseases. Furthermore, these treatments contribute significantly to the long-term sustainability of our agricultural systems by reducing the reliance on synthetic chemicals and minimizing their potential adverse effects on ecosystems.

In addition to their agronomic advantages, biological seed treatments also align with the growing consumer demand for sustainable and ethically produced food. By choosing products that incorporate these treatments, consumers actively participate in the preservation of our planet and the promotion of a greener future. This conscious choice promotes biodiversity, soil health, and water quality, while reducing the overall ecological footprint of agriculture. The increasing popularity of biological seed treatments highlights the strong connection between sustainable farming practices and environmental stewardship. By embracing these innovative solutions, farmers and consumers alike contribute to the preservation of our natural resources, foster resilient food systems, and pave the way towards a more sustainable and greener future.

Increased Adoption of High-Value Crops

Farmers, driven by the pursuit of higher profits and meeting market demand, are increasingly shifting their focus towards cultivating high-value and specialty crops. These crops, while offering lucrative returns, often come with a trade-off - they are more susceptible to pests and diseases due to their unique characteristics and growing conditions. This vulnerability has created a pressing need for effective and sustainable solutions to protect these valuable crops from potential threats. In response to this growing demand, the use of biological seed treatments has been on the rise. These treatments provide a targeted and environmentally friendly approach to safeguarding crops. By harnessing the power of beneficial microorganisms and natural compounds,

biological seed treatments offer a promising solution for farmers who are seeking to strike a balance between crop protection and environmental stewardship. This innovative approach not only helps in minimizing the use of synthetic pesticides but also promotes the overall health and resilience of the crops, resulting in improved yields and quality.

The adoption of biological seed treatments represents a shift towards more sustainable and eco-friendly agricultural practices. It is a testament to the farmers' commitment to safeguarding their crops while minimizing the impact on the environment. With ongoing research and advancements in this field, the future of crop protection looks promising, offering farmers effective tools to combat pests and diseases without compromising on the quality and sustainability of their harvests.

Segmental Insights

Type Insights

Based on the Type, microbials have emerged as the dominant segment in the field of seed treatments. These microbials, including bacteria, fungi, and viruses, have gained significant traction due to their remarkable ability to enhance crop yield and productivity by suppressing plant diseases. Through their intricate interactions with plants, microbials establish symbiotic relationships that promote nutrient uptake, root development, and overall plant health. This symbiosis stimulates natural defence mechanisms within plants, further protecting them from pathogenic threats. What sets microbials apart is not only their effectiveness but also their environmentally friendly nature. Unlike chemical treatments, microbials do not leave harmful residues in the soil or water, minimizing the ecological impact. Additionally, microbials pose fewer health risks to farmers and consumers alike, as they are biodegradable and non-toxic.

As a result of these advantages, the demand for microbials in the market has been steadily increasing. Farmers are adopting this greener and more sustainable approach to agriculture, recognizing the long-term benefits it offers. Furthermore, the ongoing research and development in microbial technologies continue to expand the potential applications and effectiveness of these treatments, promising even greater advancements in the future.

Crop Insights

Based on the Crop, the Global Biological Seed Treatment Market is currently dominated

by corn, one of the most widely cultivated crops in the world. As a staple in many diets and a fundamental resource in the animal feed industry, the demand for corn continues to surge, driving its prominent position in the market. Furthermore, the increasing awareness about the benefits of biological seed treatments in enhancing crop yield and protection has significantly contributed to the market domination. These treatments utilize natural and sustainable methods to improve plant health, combat pests and diseases, and ultimately promote sustainable agriculture practices. With their proven efficacy and environmental advantages, biological seed treatments have gained traction among farmers and agronomists alike, further solidifying corn's reign in the Global Biological Seed Treatment Market.

Regional Insights

North America holds the leading position in the Global Biological Seed Treatment Market. This dominance is largely attributed to the region's increased awareness of sustainable agricultural practices and a significant surge in organic farming. Countries such as the United States and Canada have been at the forefront of adopting these practices, driven by a growing recognition of the importance of environmentally friendly farming solutions. The robust agricultural sector in North America, combined with high technological advancements and government regulations supporting sustainable practices, further contributes to the growth of the Biological Seed Treatment Market in the region. The implementation of advanced technologies and the adoption of biological seed treatments have proven to be effective in improving crop yield, enhancing plant health, and reducing the reliance on chemical pesticides.

Furthermore, the increasing demand for organic products and the rising consumer preference for chemical-free farming have created a favorable market environment for biological seed treatments in North America. The region's farmers and agricultural stakeholders are actively embracing these solutions to meet the growing demand for sustainable and environmentally friendly food production. With ongoing research and development activities in the field of biological seed treatments, North America is poised to maintain its leadership position in the Global Biological Seed Treatment Market. The continuous innovation and adoption of advanced technologies will further drive the market growth, ensuring a sustainable and profitable future for the agricultural sector in the region.

Key Market Players

Bayer CropScience

Syngenta AG

BASF SE

Monsanto Company

Italpollina S.p.A.

Koppert Biological Systems

Plant Health Care plc

Precision Laboratories, LLC

Verdesian Life Sciences

Valent Biosciences LLC

Report Scope:

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

Biological Seed Treatment Market, By Type:

Microbials

Botanicals

Others

Biological Seed Treatment Market, By Crop:

Corn

Wheat

Soybean

Cotton

Sunflower

Vegetable Crops

Other Crops

Biological Seed Treatment Market, By Treatment Method:

Seed Coating

Seed Dressing

Seed Pelleting

Biological Seed Treatment Market, By Function:

Seed Enhancement

Seed Protection

Biological Seed Treatment 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

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

Biological Seed Treatment Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 S...

Biological Seed Treatment Market.

Available Customizations:

Global Biological Seed Treatment 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validations
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL BIOLOGICAL SEED TREATMENT MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Type (Microbials, Botanicals & Others)
 - 5.2.2. By Crop (Corn, Wheat, Soybean, Cotton, Sunflower, Vegetable Crops, Other Crops)

- 5.2.3. By Treatment Method (Seed Coating, Seed Dressing and Seed Pelleting)
- 5.2.4. By Function (Seed Enhancement and Seed Protection)
- 5.2.5. By Region
- 5.2.6. By Company (2022)
- 5.3. Market Map

6. NORTH AMERICA BIOLOGICAL SEED TREATMENT MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Crop
 - 6.2.3. By Treatment Method
 - 6.2.4. By Function
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Biological Seed Treatment Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Crop
 - 6.3.1.2.3. By Treatment Method
 - 6.3.1.2.4. By Function
 - 6.3.2. Canada Biological Seed Treatment Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Crop
 - 6.3.2.2.3. By Treatment Method
 - 6.3.2.2.4. By Function
 - 6.3.3. Mexico Biological Seed Treatment Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Crop

6.3.3.2.3. By Treatment Method

6.3.3.2.4. By Function

7. EUROPE BIOLOGICAL SEED TREATMENT MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Crop

7.2.3. By Treatment Method

7.2.4. By Function

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Biological Seed Treatment Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Type

7.3.1.2.2. By Crop

7.3.1.2.3. By Treatment Method

7.3.1.2.4. By Function

7.3.2. United Kingdom Biological Seed Treatment Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Type

7.3.2.2.2. By Crop

7.3.2.2.3. By Treatment Method

7.3.2.2.4. By Function

7.3.3. Italy Biological Seed Treatment Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Type

7.3.3.2.2. By Crop

7.3.3.2.3. By Treatment Method

7.3.3.2.4. By Function

7.3.4. France Biological Seed Treatment Market Outlook

- 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Crop
 - 7.3.4.2.3. By Treatment Method
 - 7.3.4.2.4. By Function
- 7.3.5. Spain Biological Seed Treatment Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Crop
 - 7.3.5.2.3. By Treatment Method
 - 7.3.5.2.4. By Function

8. ASIA-PACIFIC BIOLOGICAL SEED TREATMENT MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Crop
 - 8.2.3. By Treatment Method
 - 8.2.4. By Function
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Biological Seed Treatment Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Crop
 - 8.3.1.2.3. By Treatment Method
 - 8.3.1.2.4. By Function
 - 8.3.2. India Biological Seed Treatment Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast

- 8.3.2.2.1. By Type
- 8.3.2.2.2. By Crop
- 8.3.2.2.3. By Treatment Method
- 8.3.2.2.4. By Function
- 8.3.3. Japan Biological Seed Treatment Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Crop
 - 8.3.3.2.3. By Treatment Method
 - 8.3.3.2.4. By Function
- 8.3.4. South Korea Biological Seed Treatment Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Crop
 - 8.3.4.2.3. By Treatment Method
 - 8.3.4.2.4. By Function
- 8.3.5. Australia Biological Seed Treatment Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Crop
 - 8.3.5.2.3. By Treatment Method
 - 8.3.5.2.4. By Function

9. SOUTH AMERICA BIOLOGICAL SEED TREATMENT MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Crop
 - 9.2.3. By Treatment Method
 - 9.2.4. By Function
 - 9.2.5. By Country

- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Biological Seed Treatment Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Crop
 - 9.3.1.2.3. By Treatment Method
 - 9.3.1.2.4. By Function
 - 9.3.2. Argentina Biological Seed Treatment Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Crop
 - 9.3.2.2.3. By Treatment Method
 - 9.3.2.2.4. By Function
 - 9.3.3. Colombia Biological Seed Treatment Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Crop
 - 9.3.3.2.3. By Treatment Method
 - 9.3.3.2.4. By Function

10. MIDDLE EAST AND AFRICA BIOLOGICAL SEED TREATMENT MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Crop
 - 10.2.3. By Treatment Method
 - 10.2.4. By Function
 - 10.2.5. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Biological Seed Treatment Market Outlook

- 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Type
 - 10.3.1.2.2. By Crop
 - 10.3.1.2.3. By Treatment Method
 - 10.3.1.2.4. By Function
- 10.3.2. Saudi Arabia Biological Seed Treatment Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Crop
 - 10.3.2.2.3. By Treatment Method
 - 10.3.2.2.4. By Function
- 10.3.3. UAE Biological Seed Treatment Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Crop
 - 10.3.3.2.3. By Treatment Method
 - 10.3.3.2.4. By Function

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Development
- 12.2. Mergers & Acquisitions
- 12.3. Product Launches

13. GLOBAL BIOLOGICAL SEED TREATMENT MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Bayer CropScience
 - 15.1.1. Business Overview
 - 15.1.2. Product & Service Offerings
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Syngenta AG
- 15.3. BASF SE
- 15.4. Monsanto Company
- 15.5. Itaipollina S.p.A.
- 15.6. Koppert Biological Systems
- 15.7. Plant Health Care plc
- 15.8. Precision Laboratories, LLC
- 15.9. Verdesian Life Sciences
- 15.10. Valent Biosciences LLC

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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