

Biological Seed Treatment Market Size, Share & Trends Analysis Report By Product (Microbials, Botanicals & Others), By Function (Seed Protection, Seed Enhancement), By Crop Type, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Biological Seed Treatment Market Growth & Trends

The global biological seed treatment market size is projected to reach USD 3.25 billion by 2030, exhibiting a remarkable CAGR of 12.6%, according to a new report by Grand View Research, Inc. Rising inclination of consumers toward pesticide-free crops is likely to drive the market growth over the forecast period. Biological treatment uses naturally-derived raw materials to protect seeds from various pests and diseases.

According to research conducted by The Energy and Resources Institute (TERI), New Delhi, India, biological seed treatment of corn, soybeans, cotton, and cereal grains has resulted in an increased yield of up to 10.0%. The treatment acts as a biostimulant and helps facilitate early growth rate. It promotes microorganisms to colonize the roots, thus protecting the crops during the entire growth season.

Biological seed treatment is garnering more importance as compared to chemical treatment due to the shifting preference of consumers toward healthy and organic food. The harmful side effects resulting from excessive usage of chemical products have led to rising awareness related to bio-based products. In most of the developing countries, farmers have started adopting organic farming, which has directly impacted market penetration.

Biofungicides and bioinsecticides are mainly used for seed protection while biofertilizers and biostimulants are used for seed enhancement to boost harvesting yield and quality. Among these, biofungicides are likely to witness relatively higher growth rate and the segment is anticipated to grow at a CAGR of 12.1%, in terms of revenue.

Europe was the largest product consumer with a market share of over 38.8%, in terms of volume, in 2024. The region is anticipated to grow at a CAGR of 10.0% from 2025 to 2030. The growing agriculture industry aided by land availability and government support is likely to pave the way for growth of the European market. Various regulations have been established by multiple agencies against the excessive use of synthetic agricultural chemicals in the region, which are in turn projected to benefit the market growth.

Biological Seed Treatment Market Report Highlights

Microbials product segment dominated the biological seed treatment market owing to their high effectiveness in the protection of crops & seeds.

On the basis of function, seed protection segment accounted for the largest market share of over 67.7%, in terms of revenue, in 2024 and it is likely to grow at a CAGR of 12.5% from 2025 to 2030.

The vegetable crops segment dominated the market with a revenue market share of over 26.4% in 2024. The growing use of biopesticides for treating vegetable seeds, consumers' increasing preference for healthy lifestyles, and the demand for chemical-free food products are anticipated to drive market growth during the forecast period.

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