

Biocontrol Agents Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Biocontrol Agents Market was valued at USD 6 billion in 2024 and is projected to expand at a CAGR of 15.9% from 2025 to 2034. Biocontrol agents are natural organisms, such as bacteria, fungi, and viruses, that control pests and diseases in agriculture and other sectors. Unlike synthetic pesticides, these agents rely on ecological interactions to manage harmful species, offering a more sustainable solution. This growth is largely driven by the rising demand for organic production methods worldwide. Consumers are increasingly concerned about how food is produced, favoring methods that are environmentally friendly and less harmful to both health and ecosystems.

The demand for biocontrol agents is also being fueled by the growing awareness of the harmful effects of chemical pesticides, including their contribution to biodiversity loss, ecosystem damage, and health risks. This shift towards sustainable agricultural practices is motivating farmers to adopt biocontrol methods, as they are highly effective, eco-friendly, and work well within integrated pest management (IPM) systems. With their ability to target pests selectively, biocontrol agents offer long-lasting solutions with minimal environmental impact.

The market is segmented by active substance, crop type, and method of application. The microbials segment, which includes beneficial microorganisms like bacteria, fungi, and viruses, held the largest share of USD 3.6 billion in 2024. This segment continues to grow as farmers seek environmentally safe pest management alternatives. Biocontrol agents are widely used across different crop types, including fruits and vegetables, cereals and grains, and pulses. The fruits and vegetables segment accounted for USD 2.6 billion in 2024 and is expected to grow significantly, driven by consumer demand for pesticide-free produce. Additionally, the seed treatment segment, valued at USD 2.1 billion in 2024, is predicted to grow at a CAGR of 16.7% during the forecast period. This

application helps prevent pest problems before crops are planted, ensuring healthy plant growth.

Europe leads the global biocontrol agents market, with a valuation of USD 2 billion in 2024. European countries, particularly France, Germany, and the Netherlands, are adopting biocontrol products rapidly due to their commitment to sustainable farming. The European Green Deal, which aims to reduce pesticide use and increase organic farming, is significantly boosting biocontrol adoption. This shift is supported by EU policies and national programs promoting integrated pest management and biological alternatives. The growing consumer preference for food without pesticide residues is also a key factor driving the market in this region.

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