

## **Biocontrol Agents - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

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### **Report description:**

The Biocontrol Agents Market size is estimated at 4.01 billion USD in 2025, and is expected to reach 5.63 billion USD by 2030, growing at a CAGR of 7.03% during the forecast period (2025-2030).

- The biocontrol agents industry is a rapidly growing industry that is poised to have a significant impact on global agricultural practices. In 2022, the market was valued at USD 3.18 billion, with macrobial biocontrol agents dominating the industry due to their ability to control a wide range of pests. Predators accounted for 91% of the market value of macrobial biocontrol products, mostly attributed to their capacity to attack multiple pests across different life stages.
- Microbial biocontrol agents are gaining traction in the market. They were valued at USD 72.9 million in 2022. Microbial biocontrol agents are highly effective in controlling a wide range of diseases and pests.
- Fungal biocontrol agents, in particular, are highly sought after, accounting for 53.8% of the value of the global microbial biocontrol agents market in 2022. Trichoderma, in particular, is a commercially available biocontrol agent that is widely used in major crops to control root rotting, fusarium wilting, and seedling diseases.
- The use of biocontrol agents can reduce the need for chemical pesticides, which could directly reduce the overall cost of cultivation. The dominance of macrobial and microbial biocontrol agents and the widespread adoption of integrated pest management practices have led governments to promote integrated pest management tools to assist farmers and advisors. These factors are expected to drive the biocontrol agents market between 2023 and 2029.

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- The Asia-Pacific region dominates the global biocontrol agents market, accounting for a significant 67.8% share in 2022. In this region, India is the largest market for biocontrol agents, with a share of 51.0% in 2022. The market for microbial biocontrol agents is particularly strong, accounting for 60.1% of the market in 2022. This is due to the fact that microbial agents are easy to multiply in commercial laboratories and are easier to apply than macrobial agents. However, predators are the most commonly used macrobial biocontrol agents, as they are readily available and have a faster reproductive capacity. This segment is projected to experience significant growth during the forecast period, with an estimated CAGR of 8.4% between 2023 and 2029.
- In Europe, the market for biocontrol agents is significant, accounting for 14.3% of the global market share in 2022. Italy is the largest market in the region, with a share of 39.0% by value and 28.7% by volume. The market in Europe is expected to grow between 2023 and 2029, with a projected CAGR of 7.6%. This growth is expected to be the result of the increasing cultivation of horticultural crops and the discovery of new pests that attack these crops.
- Europe has set a target to increase the total farmland under organic farming to at least 25% by 2030. The increasing demand for organic products and government and non-government initiatives to promote organic farming are expected to drive the market and market value between 2023 and 2029. The biocontrol agents market is projected to experience significant growth in both Asia-Pacific and Europe, driven by factors such as the increasing demand for organic products and advancements in biocontrol technologies.

#### Global Biocontrol Agents Market Trends

Organic production is at an all-time high in North America and Europe, due to the increasing awareness and Government initiatives.

- Organic agriculture has emerged as a significant contributor to sustainable food systems, with 187 countries practicing it globally. As of 2021, there was 72.3 million ha of organic agricultural land worldwide, with an average increase of 2.9% across all regions from 2018 to 2021. Organic arable land accounted for 14.4 million ha, representing 19.9% of the total organic agricultural land.
- The strongest markets for organic farming are North America and Europe, accounting for 41.0% of the global organic arable land. In 2022, Europe had 6.5 million ha of organic arable land, equivalent to 44.1% of the overall organic arable agricultural area. The most significant crops grown organically in North America and Europe are apples, strawberries, cereals, and olives.
- Developing countries in Asia-Pacific are also joining the organic agriculture movement and becoming self-sufficient in producing and providing fresh organic produce to meet their domestic demand. The trend of organic farming is gaining momentum in Asia-Pacific, with the region recording an 18.8% increase in organic arable land from 2017 to 2022. The major initiatives by governments in the region also play a vital role in the growing trend of organic farming. For example, Japan's Basic Plan for Food, Agriculture, and Rural Areas aims to triple the number of organic farmers and lands by 2030.
- The growth of organic agriculture is driven by the rising awareness of the benefits of organic farming, such as promoting soil health, reducing environmental impacts, and producing healthier food.

Per capita spending of organic food majorly observed in United States and Germany, attributed to the consumer demand for healthier and sustainable food

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- The organic food market experienced significant growth in the past few years, with global sales reaching USD 120.6 billion in 2020, up from USD 70.8 billion in 2012. The trend toward organic food is being driven by several factors, such as increasing consumer demand for healthier, more sustainable food options and a growing awareness of the environmental impact of conventional agriculture. The global organic food market is expected to continue its growth trend over the coming years.
- According to a survey conducted by the Organic Trade Association in 2021, sales of organic fruits and vegetables increased by around 4.5% in the same year, accounting for 15% of the overall organic sales. North America dominates the market in terms of average spending on organic products, with per capita spending in the United States reaching USD 186.7 in 2021, the highest among all North American countries. Europe is also expected to experience significant growth in the organic food market, with Germany accounting for the highest per capita spending of USD 75.6 in 2021.
- While the organic food market is still dominated by developed countries with high consumer disposable incomes, it is also expected to grow in developing nations. For example, the increasing number of working-class people in the Asia-Pacific region may contribute to the market's expansion due to the growing availability and affordability of organic food products.

## Biocontrol Agents Industry Overview

The Biocontrol Agents Market is fragmented, with the top five companies occupying 8.87%. The major players in this market are Biobee Ltd, Biobest Group NV, Bioline AgroSciences Ltd, Koppert Biological Systems Inc. and VIRIDAXIS SA (sorted alphabetically).

### Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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