

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

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Report description:

The India Biocontrol Agents Market size is estimated at 2.08 billion USD in 2025, and is expected to reach 2.71 billion USD by 2030, growing at a CAGR of 5.42% during the forecast period (2025-2030).

- Microbial biocontrol agents, such as bacterial and fungal biocontrol agents, are widely used in agriculture to manage pests and diseases. These microorganisms can be easily reproduced in laboratories for commercial use and offer a convenient application process, which contributes to their potential growth in the Indian biocontrol agents market. However, the market share of microbial biocontrol agents was less than 1.0% in 2022.
- Fungal biocontrol agents, such as *Beauveria bassiana* and *Trichoderma viride*, are widely used in agriculture for controlling pests and diseases. *B. bassiana* has been shown to effectively combat a range of pests, while *T. viride* is known to neutralize various plant diseases by rendering the harmful fungi inactive. Studies have revealed that the application of *B. bassiana* results in a significant increase in the mortality of harmful insects and a decrease in their progeny count. These fungi are among the most commercially utilized fungal biocontrol agents available.
- Predators are the most used macrobial biocontrol agents in India and have the largest market share. This can be attributed to their ease of availability and faster reproductive capacity. The segment is projected to record a higher CAGR of 5.6% between 2023 and 2029.
- Parasitoids, another type of biocontrol agents, are commonly used in agriculture and accounted for 2.6% of the microbial biocontrol agents market in 2022. They control pests by feeding on their larvae or pupae, allowing farmers to address pest problems in the early stages.

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- Microbial biocontrol agents control the target pests with no harm to the environment and plants, and their usage in agriculture is expected to grow between 2023 and 2029.

India Biocontrol Agents Market Trends

Growing number of organic producers helping the increase in area under organic cultivation, primarily in row crops

- India is the largest country, in terms of the total number of certified organic producers in the world, with 1.3 million organic producers in 2019. Despite having a large number of organic producers, organic cultivation areas in the country account for around 2.0% of the total agriculture area in the country. In 2021, the organic area in the country was recorded as 711,094.0 hectares, which increased by about 3.4% compared to 2017. Organic farming in the country is concentrated in only a few states. The top ten organic farming states in the country account for about 80.0% of the total organic crop area. A few states have taken the lead in improving organic farming coverage, like Madhya Pradesh, Rajasthan, and Maharashtra, which are the top three organic farming states in the country. Madhya Pradesh alone accounted for about 27.0% of India's total organic cultivation area in 2019.
- Organic cultivation of row crops is dominant in the country, which accounted for about 59.7% of the total organic crop area in 2021. Cereal crop production is dominant rice, wheat, millet, and maize are the major cereals produced. Most cereal crops are grown in the kharif season (June - September). The crops grown in this season are mainly rain dependent or require more water, like rice, maize, cotton, and soybean.
- The overall organic cash crop cultivation area increased from 0.27 million hectares in 2017 to 0.28 million hectares in 2021. The major cash crops produced in the country are cotton, sugarcane, tea, and spices. There is a limited growth of organic horticultural crops currently in the country. The increasing demand for organic products and Indian government initiatives to go organic are anticipated to increase organic crop area between 2023 and 2029.

Growing demand and their easy accessibility through e-commerce channels, rising the per capita spending on organic food

- India's per capita spending on organic products is relatively low at USD 0.23 compared to the average per capita spending on organic products in Asia-Pacific. However, in recent years, shifting consumer demand has increased toward organic products as more customers perceive these items offer better immunity, higher quality, and more accessibility through e-commerce channels. India is a promising and developing market for organic foods and beverages. India's domestic organic food and beverage industry is expected to be worth USD 138.0 million by 2024, rising at a compound annual growth rate of 13% between 2019 to 2024.
- In 2022, the total combined organic food and beverages worth USD 108.0 million consumed in the country. The consumption value of organic products in the country increased from USD 45 million in 2016 to USD 96.0 million in 2021. Organic food sales have seen an increasing trend mainly due to increasing consumer awareness, and high-income consumers are propelling organic food and beverage consumption. Categories that gained the most demand included essential foods, such as organic eggs, dairy, and fruits and vegetables.
- Organic beverage consumption dominated the market and accounted for about 85.2% of the total combined organic food and beverages market value in 2022. The organic beverages segment includes organic packaged food and beverages that are

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certified by the approved certification body. Organic beverage consumption value increased at a CAGR of 14% between 2020 to 2022. The price premium associated with organic products hampers lower-income consumer access and is the major limiting factor for organic food consumption. However, organic products' active promotion and advantages drive the organic food market during the forecast period.

India Biocontrol Agents Industry Overview

The India Biocontrol Agents Market is fragmented, with the top five companies occupying 0.56%. The major players in this market are Agro Bio-Tech Research Centre Ltd, Koppert Biological Systems Inc., Samriddhi Crops India Pvt. Ltd, Sonkul Agro Industries and T.Stanes and Company Limited (sorted alphabetically).

Additional Benefits:

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

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