

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

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Report description:

The Asia-Pacific Biocontrol Agents Market size is estimated at 2.68 billion USD in 2025, and is expected to reach 3.58 billion USD by 2030, growing at a CAGR of 5.96% during the forecast period (2025-2030).

- Predators dominated the macrobials segment with a market share of 90.6% in 2022. The dominance of the predators segment in the overall biocontrol agents market is mainly due to their ability to attack different life stages of pests and even different pest species, as they are more voracious feeders than other biocontrol agents.
- Many predatory arthropods, including lady beetles, lacewing larvae, and mites, are agile and ferocious hunters. They actively stalk their prey on the ground or in vegetation. Other hunters, such as dragonflies and robber flies, catch their prey in flight. In contrast, ambushers patiently sit and wait for mobile prey. Praying mantids, for example, are usually well camouflaged and use the element of surprise to nab their unsuspecting victims.
- The microbial biocontrol agents market accounted for 0.1% in the year 2022. The microbial biocontrol agents can easily be multiplied for commercial purposes in laboratories and have higher ease of application compared to macrobial biocontrol agents.
- Fungal biocontrol agents accounted for 31.0% of the microbial segment of the Asia-Pacific biocontrol agents market in 2022. The most commercially exploited fungal species as biocontrol agents are *Beauveria bassiana* and *Trichoderma viride*. *Beauveria bassiana* is a fungus that is used against a wide range of pests, and *Trichoderma viride* is used to control a wide range of plant diseases by paralyzing the harmful disease-causing fungi.
- Bacterial biocontrol agents accounted for 28.9% of the Asia-Pacific microbials market in 2022. Some of the most intensively studied are bacteria belonging to the genus *Pseudomonas* spp., *Bacillus* spp., and *Streptomyces* spp., which have already been

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registered as commercial products.

- The Asia-Pacific biocontrol agents market is growing rapidly, dominated by India, which held a market share of 51.0% in 2022. The microbial biocontrol agents segment accounted for 60.1% of the Asia-Pacific market in the same year. They are popular since they can be easily multiplied for commercial purposes in laboratories and have higher ease of application than macrobial biocontrol agents. The microbial segment is projected to witness a CAGR of 8.4% between 2023 and 2029.
- The dominance of row crop cultivation in the region, accounting for about 67.5% of the total organic cultivation area in the Asia-Pacific region in 2022, led to them recording consumption of 82.7% of the market by value in the same year. Rice, cassava, corn, soybean, sugarcane, coconut, and rubber are major crops cultivated in the region.
- China holds the second-largest share in the Asia-Pacific biocontrol agents market, accounting for a share of 42.3% in 2022. The Chinese government's initiatives to decrease the overall use of chemical pesticides and development plans for local organic agriculture by municipal governments at all levels are helping boost the Chinese biological controls market. In addition, incentives have been introduced to encourage producers to switch to organic farming. These factors may further drive the biocontrol agents market in the country between 2023 and 2029.
- The Asia-Pacific biocontrol agents market represents significant growth opportunities for businesses and investors. With the increasing demand for organic products and various government and non-government initiatives to promote organic farming, the Asia-Pacific biocontrol agents market is projected to witness a CAGR of 8.4% between 2023 and 2029.

Asia-Pacific Biocontrol Agents Market Trends

Growing government support in countries like China, India, Indonesia, and Australia, boosts organic farming in the region

- The area of organic agricultural land in Asia-Pacific was over 3.7 million ha in 2021, representing 26.4% of the global organic area, as per FiBL statistics. The organic area under cultivation grew by 19.3% between 2017-2022. As of 2020, the region had 1.83 million organic producers, with India topping the list with 1.3 million organic producers. China, India, Indonesia, and Australia are the major countries with large organic cultivation areas in the region. Government authorities in countries like China and India are constantly promoting organic agriculture to reduce reliance on chemical inputs for crop cultivation. For instance, India has implemented schemes like Paramparagat Krishi Vikas Yojana and the All India Network Programme on Organic Farming (AI-NPOF).
- In 2021, China accounted for a maximum share of 66.1%, with 2.5 million ha, followed by India, Indonesia, and Australia, with 19.3%, 1.5%, and 1.4%, respectively. The total organic land is divided into three crop types, namely row crops, horticultural crops, and cash crops. Row crops occupy a major share of organic agricultural land in the region, accounting for 67.5% share, i.e., 2.5 million ha in 2021. The major row crops grown in the region include paddy, wheat, pulses, soybeans, and millets.
- Cash crops held the second largest share, with 0.7 million ha in 2021, accounting for an 18.5% share of organic cropland. The demand for organic cash crops like sugar and organic tea is increasing worldwide. China and India are the largest organic green and black tea producers, respectively. The growing international demand is expected to increase the organic acreages in the region.

Per capita spending on organic product predominant in Australia and China's organic food market growing significantly

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- The per capita spending on organic products in the region was recorded at USD 85.1 in 2021. Australia witnessed a higher per capita spending on organic products, with USD 58.3 in the same year, attributed to the higher demand due to consumers' perception of organic food as healthy. As per the Global Organic Trade data, the organic packaged food and beverage market in Australia was valued at USD 885.2 million in 2021.
- China's organic food market grew by 13.3% in 2021, and the positive growth pattern is expected to continue, with a CAGR of 7.1% between 2023 and 2029. With an increasing emphasis on the importance of organic products among the younger generation and the rising demand for organic baby food due to the growing number of mothers in the workforce and the increasing adoption of the health and wellness trend, organic products are expected to reach a value of USD 6.4 billion by 2025.
- Organic products in India represent far less than 1.0% of global demand, with a per capita expenditure of just USD 0.08 in 2021. However, the Indian market may grow over the coming years, reaching a value of USD 153.3 million by 2025. Currently, the region's organic goods market is highly fragmented, with just a few supermarkets and specialty stores selling them, as people from higher-income families are the only potential customers. Growing consumer knowledge and changing buying patterns may lead to a better understanding of organic food sustainability in the region. Increasing per capita income and increased consumer awareness of the importance of organic food can raise per capita expenditure on organic food items in the Asia-Pacific region.

Asia-Pacific Biocontrol Agents Industry Overview

The Asia-Pacific Biocontrol Agents Market is fragmented, with the top five companies occupying 2.52%. The major players in this market are Biobest Group NV, 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

Table of Contents:

1 EXECUTIVE SUMMARY & KEY FINDINGS

2 REPORT OFFERS

3 INTRODUCTION

3.1 Study Assumptions & Market Definition

3.2 Scope of the Study?

3.3 Research Methodology

4 KEY INDUSTRY TRENDS

4.1 Area Under Organic Cultivation

4.2 Per Capita Spending On Organic Products

4.3 Regulatory Framework

4.3.1 Australia

4.3.2 China

4.3.3 India

4.3.4 Indonesia

4.3.5 Japan

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- 4.3.6 Philippines
- 4.3.7 Thailand
- 4.3.8 Vietnam
- 4.4 Value Chain & Distribution Channel Analysis

5 MARKET SEGMENTATION (includes market size in Value in USD and Volume, Forecasts up to 2030 and analysis of growth prospects)

- 5.1 Form
 - 5.1.1 Macrobials
 - 5.1.1.1 By Organism
 - 5.1.1.1.1 Entamopathogenic Nematodes
 - 5.1.1.1.2 Parasitoids
 - 5.1.1.1.3 Predators
 - 5.1.2 Microbials
 - 5.1.2.1 By Organism
 - 5.1.2.1.1 Bacterial Biocontrol Agents
 - 5.1.2.1.2 Fungal Biocontrol Agents
 - 5.1.2.1.3 Other Microbials
- 5.2 Crop Type
 - 5.2.1 Cash Crops
 - 5.2.2 Horticultural Crops
 - 5.2.3 Row Crops
- 5.3 Country
 - 5.3.1 Australia
 - 5.3.2 China
 - 5.3.3 India
 - 5.3.4 Indonesia
 - 5.3.5 Japan
 - 5.3.6 Philippines
 - 5.3.7 Thailand
 - 5.3.8 Vietnam
 - 5.3.9 Rest of Asia-Pacific

6 COMPETITIVE LANDSCAPE

- 6.1 Key Strategic Moves
- 6.2 Market Share Analysis
- 6.3 Company Landscape
- 6.4 Company Profiles (includes Global Level Overview, Market Level Overview, Core Business Segments, Financials, Headcount, Key Information, Market Rank, Market Share, Products and Services, and Analysis of Recent Developments).
 - 6.4.1 Andermatt Group AG
 - 6.4.2 Biobest Group NV
 - 6.4.3 Henan Jiyuan Baiyun Industry Co. Ltd
 - 6.4.4 KN Bio Sciences India Pvt. Ltd
 - 6.4.5 Koppert Biological Systems Inc.
 - 6.4.6 Samriddhi Crops India Pvt Ltd
 - 6.4.7 Sonkul Agro Industries
 - 6.4.8 T.Stanes and Company Limited

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7 KEY STRATEGIC QUESTIONS FOR AGRICULTURAL BIOLOGICALS CEOS

8 APPENDIX

8.1 Global Overview

8.1.1 Overview

8.1.2 Porter's Five Forces Framework

8.1.3 Global Value Chain Analysis

8.1.4 Market Dynamics (DROs)

8.2 Sources & References

8.3 List of Tables & Figures

8.4 Primary Insights

8.5 Data Pack

8.6 Glossary of Terms

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