

## **Asia-Pacific Biopesticides - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2017 - 2029**

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### **Report description:**

The Asia-Pacific Biopesticides Market size is estimated at USD 1.02 billion in 2024, and is expected to reach USD 1.63 billion by 2029, growing at a CAGR of 9.83% during the forecast period (2024-2029).

#### Key Highlights

- Biofungicides is the Largest Form : Biofungicides usage has substantially increased in the region, with an increase in the availability of the products and advancements in product development processes.
- Bioinsecticides is the Fastest-growing Form : The bacterial insecticide *Bacillus Thuringiensis* and entomopathogenic fungi *Beauveria bassiana* are the most predominantly used bioinsecticide in due to their effectiveness.
- Row Crops is the Largest Crop Type : The dominance of row crops is attributed to their extensive organic area under cultivation which accounted for 67.5% of the total organic cropland in the region in 2022.
- China is the Largest Country : China is a large producer of grains as they are staple food for people living in the country & it accounted for about 78.3% of the global organic row crop cultivation in 2022.

#### Asia-Pacific Biopesticides Market Trends

Biofungicides is the largest Form

- Biopesticides are naturally occurring substances or agents derived from animals, plants, insects, and microorganisms, including bacteria and fungi. They are used to manage agricultural pests and infections. The market for biopesticides in the Asia-Pacific

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region was valued at USD 854.2 million in 2022.

- Biofungicides are the most popular biopesticides used in the region. They held a market share of 36.8% in 2022. *Bacillus*, *Trichoderma*, *Streptomyces*, and *Pseudomonas* are the most commercially used species of microorganisms in agriculture. These biofungicides effectively act against pathogens, such as *Pythium*, *Rhizoctonia*, *Fusarium*, *Sclerotinia*, *Thielaviopsis*, *Botrytis*, and powdery mildew.
- Among bioinsecticides, the bacterial insecticide *Bacillus thuringiensis* is most predominantly used in agriculture due to its immense potential to control pests by producing proteins during the sporulation phase. *Bacillus thuringiensis* is effective in managing lepidopteran species that affect a wide range of crop types.
- *Pseudomonas fluorescens* and *Xanthomonas campestris* are fungi and bacteria, respectively, gaining commercial importance as bioherbicides in the region. The extracellular peptides and a lipopolysaccharide released from these organisms inhibit the growth of weeds. *Xanthomonas campestris* is known to control horseweed effectively.
- The need for sustainable approaches in managing biotic stresses in agriculture is the potential driver for biopesticide usage in the region.

#### China is the largest Country

- The Asia-Pacific region is witnessing a significant shift toward sustainable agriculture practices, with countries like China and India leading the market. China is currently the largest consumer of biopesticides in the region, and it accounted for a 29.1% share in 2022.
- In response to rising concerns over soil contamination, pollution, and chemical residues in food, the Chinese government is taking proactive measures to promote the usage of organic inputs. These initiatives include bearing the cost of organic certification, providing funding for on-farm infrastructure and organic fertilizers, training, marketing assistance, and assisting with land acquisition. Middle and higher-income families are driving this growing demand for organically-grown food.
- However, India has the world's highest number of organic growers, and it is the fifth-largest country in terms of organic agricultural land area. During 2021-2022, India produced over 3.4 million metric tons of certified organic products, including a wide range of food products. This high adoption of organic farming practices is expected to drive the biopesticides market in the region.
- One key driver of the biopesticides market is the development of herbicide-resistant weeds such as *L. rigidum*, *R. raphanistrum*, *Bromus* spp., and *Hordeum* spp. These weeds have developed resistance against traditional chemical herbicides that kill the weeds by ACCase- and ALS-inhibition, making control difficult. This presents an opportunity for farmers to adopt other alternatives like bioherbicides, thus driving the Asia-Pacific biopesticides market. The market is estimated to record a CAGR of 9.8% during the forecast period (2023-2029).

#### Asia-Pacific Biopesticides Industry Overview

The Asia-Pacific Biopesticides Market is fragmented, with the top five companies occupying 3.31%. The major players in this market are Coromandel International Ltd, Gujarat State Fertilizers & Chemicals Ltd, IPL Biologicals Limited, T.Stanes and Company Limited and Valent Biosciences LLC (sorted alphabetically).

#### Additional Benefits:

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

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