

Azotobacter - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2017 - 2029

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Report description:

The Azotobacter Market size is estimated at USD 365.65 million in 2024, and is expected to reach USD 580.26 million by 2029, growing at a CAGR of 9.68% during the forecast period (2024-2029).

Key Highlights

- Row Crops is the Largest Crop Type. Barley, corn, wheat, rapeseed, rye, soybean, and rice are the major row crops grown globally. Row crops dominate the global azotobacter market with a 76.9% share in 2022.
- Row Crops is the Fastest-growing Crop Type. Azotobacter biofertilizers consumption in row crops is increasing due to the growing organic cultivation and the necessity to reduce N fertilizers consumption in row crops.
- Asia-Pacific is the Largest Region. China & India are the region's largest markets for azotobacter. Initiatives to reduce fertilizers usage and incentives to organic farmers made the region the largest consumer
- China is the Largest Country. Organic ara under cultivation in China increased by 29.6% during the historic period (2017 - 2021), from 1.9 million hectares in 2017 to 2.5 million hectares in 2021.

Azotobacter Market Trends

Row Crops is the largest Crop Type

- Azotobacter refers to free-living bacteria that perform biological nitrogen fixation aerobically or anaerobically without depending on the host plants. Azotobacter biofertilizers accounted for an 11.3% share of the global biofertilizers market in 2022.

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- The global area under organic crop cultivation increased by 29.1% during the historical period, rising from 11.1 million hectares in 2017 to 14.4 million hectares in 2022. In 2022, row crops accounted for the largest area under organic cultivation, with a 67.5% share, followed by horticulture crops and cash crops, with shares of 17.5% and 15.1%, respectively.
- Rice, barley, corn, wheat, rapeseed, sunflower, soybean, and other major field crops are grown worldwide. Row crops dominate the global Azotobacter market, accounting for 76.9% of the market in 2022. Azotobacter biofertilizers are useful for non-leguminous crops like paddy, wheat, millet, cotton, tomato, cabbage, mustard, and sunflower.
- The usage of Azotobacter in horticulture crops is increasing as the application of Azotobacter biofertilizer by replacing or in conjunction with various inorganic fertilizers is capable of increasing the fruit yield in various horticultural crops. The increase in yield and fruit set is not only attributed to its nitrogen-fixing ability but also due to Azotobacter's ability to increase the translocation of other nutrients from root to flower via plant foliage.
- Excessive nitrogen fertilizer application has been linked to environmental issues such as eutrophication, the greenhouse effect, and acid rain. Azotobacter biofertilizers can provide plants with the necessary nitrogen without overdosing them. These factors are anticipated to drive the global Azotobacter biofertilizers market to record a CAGR of 9.5% during the forecast period (2023-2029).

Asia-Pacific is the largest Region

- Nitrogen (N) is essential for increasing crop yields and can alter crops' ability to defend against herbivores. N-fertilizer is applied more frequently than required to maximize plant yield and economic profitability. Azotobacter is a viable option for reducing N fertilizer application.
- Azotobacter biofertilizers consumption accounts for 11.3% of the global biofertilizers market by value. This is due to the beneficial effects of azotobacter in achieving sustainable agriculture over the long term.
- Asia-Pacific is the largest regional market for Azotobacter biofertilizers, accounting for a value of USD 138.2 million in 2022. China and India are the major country-wise markets in Asia-Pacific, accounting for shares of 99.2% and 0.2%, respectively, in the Azotobacter market. China has the highest nitrogen (N) fertilizer consumption rate in the world. While N fertilizer use has greatly aided China's food production, it has also resulted in unprecedented changes in biogeochemical cycles and endangered terrestrial and aquatic ecosystems. Fertilizer policy reforms in China can help reduce N fertilizer use and the resultant N pollution. Azotobacter biofertilizers also have the potential to reduce the use of synthetic N-based fertilizers.
- In India, under the National Mission on Oilseeds and Oil Palm (NMOOP), financial assistance, including a 50% subsidy to the tune of INR 300/ha, is being given for different components like biofertilizers, supply Rhizobium culture/Phosphate solubilizing bacteria/Zinc solubilizing bacteria/Azatobacter/Mycorrhiza, and vermicompost. During the forecast period, these factors are expected to boost the market for Azotobacter biofertilizers.
- North America is the second-largest regional segment of the global Azotobacter market. The United States and Canada dominate the North American market due to their efforts to achieve organic farming.

Azotobacter Industry Overview

The Azotobacter Market is fragmented, with the top five companies occupying 14.24%. The major players in this market are Green Vision Life Sciences, Gujarat State Fertilizers & Chemicals Ltd, Indian Farmers Fertiliser Cooperative Limited, National Fertilizers Limited and T.Stanes and Company Limited (sorted alphabetically).

Additional Benefits:

- The market estimate (ME) sheet in Excel format

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