

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

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Report description:

The Rhizobium Market size is estimated at USD 0.82 billion in 2024, and is expected to reach USD 1.36 billion by 2029, growing at a CAGR of 10.65% during the forecast period (2024-2029).

Key Highlights

- Row Crops is the Largest Crop Type. The interaction between rhizobia and legume roots results in the formation of a highly regulated process converts atmospheric nitrogen into an assimilable plant nutrient.
- Row Crops is the Fastest-growing Crop Type. Barley, maize, wheat, rapeseed, rye, sunflower, soybean, and rice crops formed globally. North America and Europe regions row crop's consumption dominating the market.
- North America is the Largest Region. The increased organic cultivation of row crops in the United states and Canada resulted in an increase in the use of rhizobia-based biofertilizers in the region.
- United States is the Largest Country. Corn, soybeans, rice, wheat, and alfalfa are produced in the country and the organic area under cultivation of field crops has expanded, increased by 27.4% from 2017 to 2022.

Rhizobium Market Trends

Row Crops is the largest Crop Type

- The specific interaction between rhizobia and legume roots results in the formation of a highly regulated process termed modulation, which converts atmospheric nitrogen into an assimilable plant nutrient. This ability provides the basis for the use of

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bacterial inoculants in field crop production. Row crops dominated the mycorrhiza market in 2022, accounting for around 69.7% of market value. Globally, the most important row crops are barley, maize, wheat, rapeseed, rye, sunflower, soybean, and rice.

- The market for rhizobium-based biofertilizers in horticultural crops is expected to be worth USD 137.2 million, with 4.9 thousand metric tons used in 2022. Rhizobium strains colonize the roots of tomato and pepper plants to encourage growth at various stages of production, increasing seedling and fruit yield and quality. It is also utilized in greenhouse culture, such as tomato and capsicum farming, as well as other horticultural fruit growing.

- Coffee, tea, cocoa, cotton, sugarcane, rapeseed, sunflower, and tobacco are some of the major cash crops grown globally. Cash crops accounted for USD 68.7 million in the market value of rhizobium-based biofertilizers in 2022. North America dominated the market for cash crops and accounted for about USD 52.2 million in 2022.

- Rhizobium inoculation can provide plant nitrogen requirements while decreasing the demand for inorganic nitrogen fertilizer. Effective rhizobium inoculation can deliver up to 50-70% of the total nitrogen required to boost yields. Rhizobium also generates vitamins, amino acids, siderophores, auxins, and nitrogen fixation.

- Owing to the above-mentioned characteristics and the increase in the application of rhizobium-based fertilizers, the market is anticipated to grow during the forecast period.

North America is the largest Region

- Rhizobium is the most important nitrogen-fixing bacterium that exists in a symbiotic relationship with plants and lives in the root nodules of leguminous plants. Rhizobium is the second most consumed among biofertilizers globally and accounted for a share of 25.4% in the year 2022.

- It has been estimated that 40-250 kg of nitrogen per hectare per year is fixed by different legume crops by the microbial activities of rhizobium. The European Union is planning to make the transition toward sustainable plant protein production through the expansion of the area under leguminous crop cultivation.

- North America dominated the global rhizobium market with a market share of 52.7% in 2022. Row crops dominate the rhizobium biofertilizer market in North America, and they accounted for about 62.4% of the market value in 2022. The dominance of row crops is due to rhizobium's symbiotic association with leguminous crops, which come under row crops. Due to the large cultivation of row crops in the region, their market value is anticipated to increase, registering a CAGR of 13.0% during the forecast period.

- The requirement for additional application of nitrogen in non-leguminous crops is high in order to enhance the yield potential of the crops. The usage of biological nitrogen-fixing bacteria can increase the production of non-leguminous crops like cereals, fruits, and vegetables. Row crops dominate the rhizobium biofertilizer market and accounted for about 69.8% of the market value in 2022, owing to the large area under the cultivation of field crops. The application of rhizobium biofertilizers in fruit and vegetable crops is known to increase nutrient availability and produce required plant hormones.

Rhizobium Industry Overview

The Rhizobium Market is fragmented, with the top five companies occupying 28.14%. The major players in this market are Indian Farmers Fertiliser Cooperative Limited, Madras Fertilizers Limited, National Fertilizers Limited, Novozymes and Rizobacter (sorted alphabetically).

Additional Benefits:

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

Table of Contents:

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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

4.4 Value Chain & Distribution Channel Analysis

5 MARKET SEGMENTATION

5.1 Crop Type

5.1.1 Cash Crops

5.1.2 Horticultural Crops

5.1.3 Row Crops

5.2 Region

5.2.1 Africa

5.2.1.1 By Country

5.2.1.1.1 Egypt

5.2.1.1.2 Nigeria

5.2.1.1.3 South Africa

5.2.1.1.4 Rest of Africa

5.2.2 Asia-Pacific

5.2.2.1 By Country

5.2.2.1.1 Australia

5.2.2.1.2 China

5.2.2.1.3 India

5.2.2.1.4 Indonesia

5.2.2.1.5 Japan

5.2.2.1.6 Philippines

5.2.2.1.7 Thailand

5.2.2.1.8 Vietnam

5.2.2.1.9 Rest of Asia-Pacific

5.2.3 Europe

5.2.3.1 By Country

5.2.3.1.1 France

5.2.3.1.2 Germany

5.2.3.1.3 Italy

5.2.3.1.4 Netherlands

5.2.3.1.5 Russia

5.2.3.1.6 Spain

5.2.3.1.7 Turkey

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- 5.2.3.1.8 United Kingdom
- 5.2.3.1.9 Rest of Europe
- 5.2.4 Middle East
 - 5.2.4.1 By Country
 - 5.2.4.1.1 Iran
 - 5.2.4.1.2 Saudi Arabia
 - 5.2.4.1.3 Rest of Middle East
- 5.2.5 North America
 - 5.2.5.1 By Country
 - 5.2.5.1.1 Canada
 - 5.2.5.1.2 Mexico
 - 5.2.5.1.3 United States
 - 5.2.5.1.4 Rest of North America
- 5.2.6 South America
 - 5.2.6.1 By Country
 - 5.2.6.1.1 Argentina
 - 5.2.6.1.2 Brazil
 - 5.2.6.1.3 Rest of South America

6 COMPETITIVE LANDSCAPE

- 6.1 Key Strategic Moves
- 6.2 Market Share Analysis
- 6.3 Company Landscape
- 6.4 Company Profiles
 - 6.4.1 Indian Farmers Fertiliser Cooperative Limited
 - 6.4.2 Indogulf BioAg LLC (Biotech Division of Indogulf Company)
 - 6.4.3 IPL Biologicals Limited
 - 6.4.4 Lallemand Inc.
 - 6.4.5 Madras Fertilizers Limited
 - 6.4.6 National Fertilizers Limited
 - 6.4.7 Novozymes
 - 6.4.8 Rizobacter
 - 6.4.9 T Stanes and Company Limited
 - 6.4.10 Vittia Group

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

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8.6 Glossary of Terms

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