

**Agricultural Inoculants Market Report by Type (Plant Growth Promoting Microorganisms, Bio-Control Agents, Plant-Resistant Stimulants, and Others), Microbes (Bacteria, Fungi, and Others), Mode of Application (Seed Inoculation, Soil Inoculation, and Others), Form (Solid, Liquid, Granular, and Others), Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, and Others), and Region 2025-2033**

Market Report | 2025-02-10 | 134 pages | IMARC Group

**AVAILABLE LICENSES:**

- Electronic (PDF) Single User \$3999.00
- Five User Licence \$4999.00
- Enterprisewide License \$5999.00

**Report description:**

The global agricultural inoculants market size reached USD 522.7 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 898.1 Million by 2033, exhibiting a growth rate (CAGR) of 5.89% during 2025-2033. The market is witnessing significant growth mainly due to the rising demand for sustainable farming solutions. An increase in organic farming practices and the focus on reducing chemical inputs are further boosting the adoption of agricultural inoculants across various regions globally.

An agricultural inoculant, or soil inoculant, is a formulation of various microbial organisms, such as bacteria, fungi, protozoa, virus and algae, that are used to promote plant growth. It is either applied on the seed or added into the soil to improve plant nutrition, crop yield and prevent soil-borne diseases. It is also utilized to promote growth in plants by stimulating the production of plant hormones and enhancing mineral uptake. Inoculants are environment-friendly and can be used as a potential alternative to chemical fertilizers and pesticides for cereals, grains, oilseeds, fruits, vegetables and silage and forage crops.

The growing agriculture industry, along with the increasing adoption of organic farming practices, represent as the key factors driving the market growth. Owing to the growing concerns for agricultural sustainability, soil health and environmental safety,

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

agricultural inoculants are rapidly being used along with organic manure to improve soil fertility and plant health. Furthermore, increasing consumer awareness regarding adverse effects of chemically synthesized fertilizers and pesticides is also providing a boost to the market growth. The artificial additives are known to cause microbial imbalance, soil pollution and reduce the levels of biocontrol agents in the soil. As a result, there is a growing preference for agricultural inoculants that provide natural protection to the plants and soil. Additionally, the rising demand for food as a result of the increasing population, coupled with the limited availability of cultivable land, is another factor favoring the market growth. Agricultural inoculants aid in increasing crop yield, thus meeting the steadily rising food demand across the globe. Other factors, including various innovations in the field of agricultural sciences and the implementation of favorable government policies, are projected to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global agricultural inoculants market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on type, microbes, mode of application, form and crop type.

#### Breakup by Type:

- Plant Growth Promoting Microorganisms
- Bio-Control Agents
- Plant-Resistant Stimulants
- Others

#### Breakup by Microbes:

- Bacteria
- Rhizobacteria
- Nitrogen-fixing Bacteria
- Phosphate-Solubilizing Bacteria
- Others
- Fungi
- Trichoderma Spp.
- Mycorrhiza
- Others
- Others

#### Breakup by Mode of Application:

- Seed Inoculation
- Soil Inoculation
- Others

#### Breakup by Form:

- Solid
- Liquid
- Granular
- Others

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

#### Breakup by Crop Type:

- ☐Cereals & Grains
- ☐Oilseeds & Pulses
- ☐Fruits & Vegetables
- ☐Others

#### Breakup by Region:

- ☐North America
- ☐United States
- ☐Canada
- ☐Asia Pacific
- ☐China
- ☐Japan
- ☐India
- ☐South Korea
- ☐Australia
- ☐Indonesia
- ☐Others
- ☐Europe
- ☐Germany
- ☐France
- ☐United Kingdom
- ☐Italy
- ☐Spain
- ☐Russia
- ☐Others
- ☐Latin America
- ☐Brazil
- ☐Mexico
- ☐Argentina
- ☐Colombia
- ☐Chile
- ☐Peru
- ☐Others
- ☐Middle East and Africa
- ☐Turkey
- ☐Saudi Arabia
- ☐Iran
- ☐United Arab Emirates
- ☐Others

#### Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Advanced Biological Marketing Inc., BASF SE, Dow Chemical Company, Bayer Crop Science, Brettyoung, Novozymes A/S, Verdesian Life Sciences LLC, XiteBio Technologies Inc., Precision Laboratories LLC, etc.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

## Key Questions Answered in This Report

- 1.What was the size of the global agricultural inoculants market in 2024?
- 2.What is the expected growth rate of the global agricultural inoculants market during 2025-2033?
- 3.What are the key factors driving the global agricultural inoculants market?
- 4.What has been the impact of COVID-19 on the global agricultural inoculants market?
- 5.What is the breakup of the global agricultural inoculants market based on the type?
- 6.What is the breakup of the global agricultural inoculants market based on the microbes?
- 7.What is the breakup of the global agricultural inoculants market based on the mode of application?
- 8.What is the breakup of the global agricultural inoculants market based on the form?
- 9.What is the breakup of the global agricultural inoculants market based on the crop type?
- 10.What are the key regions in the global agricultural inoculants market?
- 11.Who are the key players/companies in the global agricultural inoculants market?

## Table of Contents:

- 1 Preface
- 2 Scope and Methodology
  - 2.1 Objectives of the Study
  - 2.2 Stakeholders
  - 2.3 Data Sources
    - 2.3.1 Primary Sources
    - 2.3.2 Secondary Sources
  - 2.4 Market Estimation
    - 2.4.1 Bottom-Up Approach
    - 2.4.2 Top-Down Approach
  - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
  - 4.1 Overview
  - 4.2 Key Industry Trends
- 5 Global Agricultural Inoculants Market
  - 5.1 Market Overview
  - 5.2 Market Performance
  - 5.3 Impact of COVID-19
  - 5.4 Market Forecast
- 6 Market Breakup by Type

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

## 6.1 Plant Growth Promoting Microorganisms

### 6.1.1 Market Trends

### 6.1.2 Market Forecast

## 6.2 Bio-Control Agents

### 6.2.1 Market Trends

### 6.2.2 Market Forecast

## 6.3 Plant-Resistant Stimulants

### 6.3.1 Market Trends

### 6.3.2 Market Forecast

## 6.4 Others

### 6.4.1 Market Trends

### 6.4.2 Market Forecast

## 7 Market Breakup by Microbes

### 7.1 Bacteria

#### 7.1.1 Market Trends

#### 7.1.2 Major Types

##### 7.1.2.1 Rhizobacteria

##### 7.1.2.2 Nitrogen-Fixing Bacteria

##### 7.1.2.3 Phosphate-Solubilizing Bacteria

##### 7.1.2.4 Others

#### 7.2.3 Market Forecast

### 7.2 Fungi

#### 7.2.1 Market Trends

#### 7.2.2 Major Types

##### 7.2.2.1 Trichoderma Spp.

##### 7.2.2.2 Mycorrhiza

##### 7.2.2.3 Others

#### 7.2.3 Market Forecast

### 7.3 Others

#### 7.3.1 Market Trends

#### 7.3.2 Market Forecast

## 8 Market Breakup by Mode of Application

### 8.1 Seed Inoculation

#### 8.1.1 Market Trends

#### 8.1.2 Market Forecast

### 8.2 Soil Inoculation

#### 8.2.1 Market Trends

#### 8.2.2 Market Forecast

### 8.3 Others

#### 8.3.1 Market Trends

#### 8.3.2 Market Forecast

## 9 Market Breakup by Form

### 9.1 Solid

#### 9.1.1 Market Trends

#### 9.1.2 Market Forecast

### 9.2 Liquid

#### 9.2.1 Market Trends

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 9.2.2 Market Forecast
- 9.3 Granular
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast
- 9.4 Others
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast
- 10 Market Breakup by Crop Type
  - 10.1 Cereals & Grains
    - 10.1.1 Market Trends
    - 10.1.2 Market Forecast
  - 10.2 Oilseeds & Pulses
    - 10.2.1 Market Trends
    - 10.2.2 Market Forecast
  - 10.3 Fruits & Vegetables
    - 10.3.1 Market Trends
    - 10.3.2 Market Forecast
  - 10.4 Others
    - 10.4.1 Market Trends
    - 10.4.2 Market Forecast
- 11 Market Breakup by Region
  - 11.1 North America
    - 11.1.1 United States
      - 11.1.1.1 Market Trends
      - 11.1.1.2 Market Forecast
    - 11.1.2 Canada
      - 11.1.2.1 Market Trends
      - 11.1.2.2 Market Forecast
  - 11.2 Asia Pacific
    - 11.2.1 China
      - 11.2.1.1 Market Trends
      - 11.2.1.2 Market Forecast
    - 11.2.2 Japan
      - 11.2.2.1 Market Trends
      - 11.2.2.2 Market Forecast
    - 11.2.3 India
      - 11.2.3.1 Market Trends
      - 11.2.3.2 Market Forecast
    - 11.2.4 South Korea
      - 11.2.4.1 Market Trends
      - 11.2.4.2 Market Forecast
    - 11.2.5 Australia
      - 11.2.5.1 Market Trends
      - 11.2.5.2 Market Forecast
    - 11.2.6 Indonesia
      - 11.2.6.1 Market Trends
      - 11.2.6.2 Market Forecast

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 11.2.7 Others
  - 11.2.7.1 Market Trends
  - 11.2.7.2 Market Forecast
- 11.3 Europe
  - 11.3.1 Germany
    - 11.3.1.1 Market Trends
    - 11.3.1.2 Market Forecast
  - 11.3.2 France
    - 11.3.2.1 Market Trends
    - 11.3.2.2 Market Forecast
  - 11.3.3 United Kingdom
    - 11.3.3.1 Market Trends
    - 11.3.3.2 Market Forecast
  - 11.3.4 Italy
    - 11.3.4.1 Market Trends
    - 11.3.4.2 Market Forecast
  - 11.3.5 Spain
    - 11.3.5.1 Market Trends
    - 11.3.5.2 Market Forecast
  - 11.3.6 Russia
    - 11.3.6.1 Market Trends
    - 11.3.6.2 Market Forecast
  - 11.3.7 Others
    - 11.3.7.1 Market Trends
    - 11.3.7.2 Market Forecast
- 11.4 Latin America
  - 11.4.1 Brazil
    - 11.4.1.1 Market Trends
    - 11.4.1.2 Market Forecast
  - 11.4.2 Mexico
    - 11.4.2.1 Market Trends
    - 11.4.2.2 Market Forecast
  - 11.4.3 Argentina
    - 11.4.3.1 Market Trends
    - 11.4.3.2 Market Forecast
  - 11.4.4 Colombia
    - 11.4.4.1 Market Trends
    - 11.4.4.2 Market Forecast
  - 11.4.5 Chile
    - 11.4.5.1 Market Trends
    - 11.4.5.2 Market Forecast
  - 11.4.6 Peru
    - 11.4.6.1 Market Trends
    - 11.4.6.2 Market Forecast
  - 11.4.7 Others
    - 11.4.7.1 Market Trends
    - 11.4.7.2 Market Forecast

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 11.5 Middle East and Africa
  - 11.5.1 Turkey
    - 11.5.1.1 Market Trends
    - 11.5.1.2 Market Forecast
  - 11.5.2 Saudi Arabia
    - 11.5.2.1 Market Trends
    - 11.5.2.2 Market Forecast
  - 11.5.3 Iran
    - 11.5.3.1 Market Trends
    - 11.5.3.2 Market Forecast
  - 11.5.4 United Arab Emirates
    - 11.5.4.1 Market Trends
    - 11.5.4.2 Market Forecast
  - 11.5.5 Others
    - 11.5.5.1 Market Trends
    - 11.5.5.2 Market Forecast
- 12 SWOT Analysis
  - 12.1 Overview
  - 12.2 Strengths
  - 12.3 Weaknesses
  - 12.4 Opportunities
  - 12.5 Threats
- 13 Value Chain Analysis
- 14 Porters Five Forces Analysis
  - 14.1 Overview
  - 14.2 Bargaining Power of Buyers
  - 14.3 Bargaining Power of Suppliers
  - 14.4 Degree of Competition
  - 14.5 Threat of New Entrants
  - 14.6 Threat of Substitutes
- 15 Price Indicators
- 16 Competitive Landscape
  - 16.1 Market Structure
  - 16.2 Key Players
  - 16.3 Profiles of Key Players
    - 16.3.1 Advanced Biological Marketing Inc.
      - 16.3.1.1 Company Overview
      - 16.3.1.2 Product Portfolio
    - 16.3.2 BASF SE
      - 16.3.2.1 Company Overview
      - 16.3.2.2 Product Portfolio
      - 16.3.2.3 Financials
      - 16.3.2.4 SWOT Analysis
    - 16.3.3 Dow Chemical Company
      - 16.3.3.1 Company Overview
      - 16.3.3.2 Product Portfolio
      - 16.3.3.3 SWOT Analysis

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 16.3.4 Bayer Crop Science
  - 16.3.4.1 Company Overview
  - 16.3.4.2 Product Portfolio
  - 16.3.4.3 Financials
- 16.3.5 Brettyoung
  - 16.3.5.1 Company Overview
  - 16.3.5.2 Product Portfolio
- 16.3.6 Novozymes A/S
  - 16.3.6.1 Company Overview
  - 16.3.6.2 Product Portfolio
  - 16.3.6.3 Financials
  - 16.3.6.4 SWOT Analysis
- 16.3.7 Verdesian Life Sciences LLC
  - 16.3.7.1 Company Overview
  - 16.3.7.2 Product Portfolio
- 16.3.8 XiteBio Technologies Inc.
  - 16.3.8.1 Company Overview
  - 16.3.8.2 Product Portfolio
- 16.3.9 Precision Laboratories LLC
  - 16.3.9.1 Company Overview
  - 16.3.9.2 Product Portfolio

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

**Agricultural Inoculants Market Report by Type (Plant Growth Promoting Microorganisms, Bio-Control Agents, Plant-Resistant Stimulants, and Others), Microbes (Bacteria, Fungi, and Others), Mode of Application (Seed Inoculation, Soil Inoculation, and Others), Form (Solid, Liquid, Granular, and Others), Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, and Others), and Region 2025-2033**

Market Report | 2025-02-10 | 134 pages | IMARC Group

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Electronic (PDF) Single User	\$3999.00
	Five User Licence	\$4999.00
	Enterprisewide License	\$5999.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-02"/>
		Signature	<input type="text"/>