

Inoculants Market by Type (Agricultural Inoculants and Silage Inoculants), Microbe (Bacterial and Fungal), Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, and Forage Crops), Form (Liquid and Dry) and Region - Global Forecast to 2027

<https://marketpublishers.com/r/ADB85670708EN.html>

Date: February 2023

Pages: 266

Price: US\$ 4,950.00 (Single User License)

ID: ADB85670708EN

Abstracts

According to MarketsandMarkets, the global inoculants market size is estimated to be valued at USD 1.1 Billion in 2022. It is anticipated to reach USD 1.7 Billion by 2027, recording a CAGR of 8.1% in value. Agricultural inoculants consist of living organisms as their main mode of action that help in nitrogen fixation, biocontrol of soil-borne diseases, enhancement of mineral uptake, weathering of soil minerals, and providing nutritional or hormonal effects. Agricultural inoculants improve the quality of the soil, enhance the growth of crops, and also increase their yield. These are formulations of bacteria or fungi and are used for remediation and enhancement of the productivity of crops.

“By type, agricultural inoculants is forecasted to gain the largest market share in the inoculants market during the study period.”

The agricultural inoculants segment is projected to account for the largest market share during the projected period. Increased usage of bacterial and fungal cultures has resulted in the efficient functioning of the physiological functions of crops, resulting in higher productivity. Agricultural inoculants also allow for increasing farm productivity in areas with adverse conditions by increasing abiotic resistance in crops. Due to the high growth rate of the market, key players are investing huge amounts in R&D activities to develop new multi-functional strains for the formulation of inoculants.

“By microbe, bacterial is anticipated to acquire the largest market share in the

inoculants market during the review period.”

Bacteria is the most widely used microbe in inoculants. Bacteria belonging to Rhizobium species are usually used as inoculants for legumes. It has been discovered that inoculating legumes with these microbes is an efficient biocontrol method for several plant diseases. Rhizobial strains have been discovered to generate plant resistance to several illnesses and lessen the severity of various diseases in leguminous and non-leguminous plants; however, the primary goal of rhizobial inoculation on crops is to enhance nitrogen availability. Moreover, most commercial inoculants for silage contain homofermentative lactic acid bacteria that help to enhance lactic acid production.

“By crop type, cereals & grains is projected to account for the largest market share in the inoculants market during the study period.”

Cereal crops comprise wheat, corn, barley, and rice. Cereals & grains form a key segment of the agricultural inoculants market, as corn and wheat are grown abundantly in different regions of the world. The growing demand for corn and wheat has contributed to the growth of the agricultural inoculants market. The US is one of the major countries to adopt microbial solutions for the cultivation of cereals & grains. Growing support by governments of different countries to encourage sustainable agricultural practices in cereals & grains farm is projected to drive the growth of agricultural inoculants.

“The North America region is projected to account for the largest market share in the inoculants market during the forecast period.”

North America is one of the major consumers of agricultural inoculants. Agricultural land in North America has been declining over time due to heavy industrialization, mining, and rapid urbanization. Due to the excessive usage of chemical fertilizers, the fertility of the soil is decreasing significantly. An increase in demand for high yield and production with limited usage of agrochemicals is projected to increase the consumption of plant growth regulators in North America, which in turn, is expected to drive the growth of the inoculants market.

Break-up of Primaries

By Company Type: Tier 1 – 30%, Tier 2 – 25%, and Tier 3 – 45%

By Designation: Manager- 25%, CXOs– 40%, and Executives – 35%

By Region: Asia Pacific – 40%, Europe - 30%, North America- 16%, and RoW- 14%

Leading players profiled in this report include the following:

Corteva Agriscience (US)

BASF SE (Germany)

Bayer AG (Germany)

Novozymes A/S (Denmark)

Cargill, Incorporated (US)

Archer Daniels Midland Company (US)

DSM (Netherlands)

Chr. Hansen Holding A/S (Denmark)

Lallemand Inc. (Canada)

Kemin Industries, Inc (US)

Verdesian Life Sciences (US)

BIO-CAT (US)

Microbial Biological Fertilizers International (South Africa)

Agrauxine (US)

Provita Supplements GmbH (Germany)

Research Coverage

Inoculants Market by Type (Agricultural Inoculants and Silage Inoculants), Microbe (Bacterial and Fungal), Cro...

This report segments the inoculants market on the basis of type, microbe, crop type, form, and region. In terms of insights, this research report focuses on various levels of analyses—competitive landscape, pricing insights, end-use analysis, and company profiles—which together comprise and discuss the basic views on the emerging & high-growth segments of the inoculants market, high-growth regions, countries, industry trends, drivers, restraints, opportunities, and challenges.

Reasons to buy this report

To get a comprehensive overview of the inoculants market

To gain wide-ranging information about the top players in this industry, their product portfolio details, and the key strategies adopted by them

To gain insights about the major countries/regions in which the inoculants market is flourishing

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

FIGURE 1 MARKET SEGMENTATION

1.3.1 INCLUSIONS AND EXCLUSIONS

1.4 REGIONS COVERED

1.5 YEARS CONSIDERED

1.6 UNITS CONSIDERED

1.6.1 CURRENCY (VALUE UNIT)

TABLE 1 USD EXCHANGE RATES CONSIDERED, 2018–2021

1.6.2 VOLUME UNIT

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 INOCULANTS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primaries

2.1.2.3 Key primary insights

2.2 MARKET SIZE ESTIMATION

2.2.1 APPROACH 1: BOTTOM-UP (BASED ON TYPE, BY REGION)

2.2.2 APPROACH 2: TOP-DOWN (BASED ON GLOBAL MARKET AND SUPPLY SIDE)

2.3 DATA TRIANGULATION

FIGURE 3 DATA TRIANGULATION METHODOLOGY

2.4 RESEARCH ASSUMPTIONS

2.5 LIMITATIONS

3 EXECUTIVE SUMMARY

TABLE 2 INOCULANTS MARKET SNAPSHOT, 2022 VS. 2027

FIGURE 4 INOCULANTS MARKET, BY TYPE, 2022 VS. 2027 (USD MILLION)

FIGURE 5 INOCULANTS MARKET, BY MICROBE, 2022 VS. 2027 (USD MILLION)

FIGURE 6 INOCULANTS MARKET, BY CROP TYPE, 2022 VS. 2027 (USD MILLION)

FIGURE 7 INOCULANTS MARKET SIZE, BY FORM, 2022 VS. 2027 (USD MILLION)

FIGURE 8 INOCULANTS MARKET SHARE (VALUE), BY REGION, 2021

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR INOCULANTS MARKET PLAYERS

FIGURE 9 SOUTH AMERICA TO ACCOUNT FOR HIGHEST GROWTH RATE DURING FORECAST PERIOD

4.2 EUROPE: INOCULANTS MARKET, BY KEY CROP TYPE AND COUNTRY

FIGURE 10 GERMANY AND CEREALS & GRAINS SEGMENTS ACCOUNTED FOR LARGEST RESPECTIVE SHARES IN EUROPEAN INOCULANTS MARKET IN 2021

4.3 INOCULANTS MARKET, BY TYPE

FIGURE 11 AGRICULTURAL INOCULANTS TO DOMINATE MARKET DURING FORECAST PERIOD

4.4 INOCULANTS MARKET, BY MICROBE

FIGURE 12 BACTERIAL INOCULANTS TO DOMINATE MARKET DURING FORECAST PERIOD

4.5 INOCULANTS MARKET, BY CROP TYPE

FIGURE 13 CEREALS & GRAINS TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD

4.6 INOCULANTS MARKET, BY FORM

FIGURE 14 LIQUID INOCULANTS TO DOMINATE MARKET DURING FORECAST PERIOD

4.7 INOCULANTS MARKET, BY CROP TYPE AND REGION

FIGURE 15 NORTH AMERICA AND CEREALS & GRAINS TO DOMINATE DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 INCREASE IN DEMAND FOR MILK & MEAT PRODUCTS

FIGURE 16 MILK AND BEEF & BUFFALO MEAT PRODUCTION, 2017-2021 (TON)

5.3 MARKET DYNAMICS

FIGURE 17 INOCULANTS MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 Shift in trend toward adoption of organic and environment-friendly farming practices

5.3.1.2 Rise in environmental concerns with higher usage of synthetic fertilizers and pesticides

5.3.1.3 Increase in feed grain and compound feed prices

FIGURE 18 FEED GRAIN PRICES, 2017–2022 (USD/TON)

5.3.1.4 Expansion in livestock industry, owing to increased demand for animal-based products

5.3.2 RESTRAINTS

5.3.2.1 Limited awareness regarding both agricultural and silage inoculants

5.3.2.2 Shelf life of agricultural inoculants

5.3.3 OPPORTUNITIES

5.3.3.1 Expansion of grassland pastures in South America

5.3.3.2 South America: Key producer of soybean and key revenue generator for agricultural inoculants

TABLE 3 GLOBAL SOYBEAN PRODUCTION, DECEMBER 2022 (MILLION TONS)

5.3.4 CHALLENGES

5.3.4.1 Limited usage of inoculants worldwide

5.3.4.2 Silage losses due to fungi and mycotoxins

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.2.1 RESEARCH AND PRODUCT DEVELOPMENT

6.2.2 SOURCING

6.2.3 PRODUCTION AND PROCESSING

6.2.4 PACKAGING & STORAGE

6.2.5 MARKETING & SALES

FIGURE 19 VALUE CHAIN ANALYSIS OF INOCULANTS MARKET

6.3 SUPPLY CHAIN ANALYSIS

FIGURE 20 INOCULANTS MARKET: SUPPLY CHAIN

6.4 TECHNOLOGY ANALYSIS

6.4.1 BIOENCAPSULATION OF INOCULANTS

6.4.2 BIOENCAPSULATED BACTERIA

6.4.3 BIOENCAPSULATED FUNGI

6.4.4 BIOENCAPSULATION PROCESS

6.5 PRICE TREND ANALYSIS

6.5.1 AVERAGE SELLING PRICE, BY TYPE

FIGURE 21 GLOBAL AVERAGE SELLING PRICE, BY TYPE, 2020–2022 (USD/TON)

TABLE 4 AGRICULTURAL INOCULANTS: AVERAGE SELLING PRICE (ASP), BY REGION, 2020–2022 (USD/TON)

TABLE 5 SILAGE INOCULANT: AVERAGE SELLING PRICE (ASP), BY REGION, 2020–2022 (USD/TON)

TABLE 6 AVERAGE SELLING PRICES OF KEY MARKET PLAYERS, BY TYPE, 2021 (USD/TON)

6.6 MARKET MAPPING AND ECOSYSTEM ANALYSIS

6.6.1 SUPPLY-SIDE ANALYSIS

6.6.2 DEMAND-SIDE ANALYSIS

FIGURE 22 INOCULANTS MARKET MAPPING

TABLE 7 INOCULANTS MARKET: SUPPLY CHAIN ECOSYSTEM

6.7 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 23 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS

6.8 TRADE ANALYSIS

TABLE 8 EXPORT VALUE OF SEaweEDS AND OTHER ALGAE BIOSTIMULANTS, BY KEY COUNTRY, 2021 (USD)

TABLE 9 IMPORT VALUE OF SEaweEDS AND OTHER ALGAE BIOSTIMULANTS, BY KEY COUNTRY, 2021 (USD)

TABLE 10 IMPORT VALUE OF AMINO ACIDS AND THEIR ESTERS, BY KEY COUNTRY, 2021 (USD)

TABLE 11 EXPORT VALUE OF AMINO ACIDS AND THEIR ESTERS, BY KEY COUNTRY, 2021 (USD)

6.9 PATENT ANALYSIS

FIGURE 24 PATENTS GRANTED FOR INOCULANTS MARKET, 2012–2022

FIGURE 25 REGIONAL ANALYSIS OF PATENT GRANTED FOR INOCULANTS MARKET, 2012–2022

TABLE 12 PATENTS PERTAINING TO INOCULANTS, 2012–2022

6.10 PORTER'S FIVE FORCES ANALYSIS

TABLE 13 INOCULANTS MARKET: PORTER'S FIVE FORCES ANALYSIS

6.10.1 DEGREE OF COMPETITION

6.10.2 BARGAINING POWER OF SUPPLIERS

6.10.3 BARGAINING POWER OF BUYERS

6.10.4 THREAT OF SUBSTITUTES

6.10.5 THREAT OF NEW ENTRANTS

6.11 CASE STUDIES

TABLE 14 BASF SE LAUNCHED NODULAID FOR STIMULATING NODULATION

TABLE 15 NOVOZYMES A/S INTRODUCED BIONIQ FOR CEREAL & CANOLA

CROP INOCULATION

6.12 KEY CONFERENCES AND EVENTS

TABLE 16 KEY CONFERENCES AND EVENTS IN INOCULANTS MARKET, 2023

6.13 TARIFF AND REGULATORY LANDSCAPE

TABLE 17 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 18 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 19 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 20 SOUTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6.14 REGULATORY FRAMEWORK

6.14.1 NORTH AMERICA

6.14.1.1 US

6.14.1.2 Canada

6.14.2 EUROPE

6.14.3 ASIA PACIFIC

6.14.3.1 China

6.14.3.2 Australia & New Zealand

TABLE 21 ENVIRONMENTAL STUDY ISSUES TO BE CONSIDERED IN APPLICATION

6.14.3.3 India

6.14.4 SOUTH AMERICA

6.14.4.1 Brazil

6.15 KEY STAKEHOLDERS AND BUYING CRITERIA

6.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 26 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR KEY CROP TYPE

TABLE 22 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE CROP TYPES

6.15.2 BUYING CRITERIA

TABLE 23 KEY CRITERIA FOR SELECTING SUPPLIERS/VENDORS

FIGURE 27 KEY CRITERIA FOR SELECTING SUPPLIERS/VENDORS

7 INOCULANTS MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 28 INOCULANTS MARKET, BY TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 24 INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 25 INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 26 INOCULANTS MARKET, BY TYPE, 2017–2021 (KT)

TABLE 27 INOCULANTS MARKET, BY TYPE, 2022–2027 (KT)

7.2 AGRICULTURAL INOCULANTS

TABLE 28 AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 29 AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 30 AGRICULTURAL INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 31 AGRICULTURAL INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

TABLE 32 AGRICULTURAL INOCULANTS MARKET, BY REGION, 2017–2021 (KT)

TABLE 33 AGRICULTURAL INOCULANTS MARKET, BY REGION, 2022–2027 (KT)

7.2.1 PLANT GROWTH-PROMOTING MICROORGANISMS

7.2.1.1 PGPM to help improve crop productivity by enhancing nutrient uptake and soil quality improvement

7.2.2 BIOCONTROL AGENTS

7.2.2.1 Increase in usage to suppress a broad spectrum of bacterial, fungal, and nematodal diseases

7.2.3 PLANT-RESISTANCE STIMULANTS

7.2.3.1 Stimulants to reduce water consumption, enhance appearance of crops, increase yield, and protect plants from diseases

7.3 SILAGE INOCULANTS

TABLE 34 SILAGE INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 35 SILAGE INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 36 SILAGE INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 37 SILAGE INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

TABLE 38 SILAGE INOCULANTS MARKET, BY REGION, 2017–2021 (KT)

TABLE 39 SILAGE INOCULANTS MARKET, BY REGION, 2022–2027 (KT)

7.3.1 HOMO FERMENTATIVE

7.3.1.1 Homofermentative inoculants to help in faster and more efficient fermentation producing mostly lactic acid

7.3.2 HETERO FERMENTATIVE

7.3.2.1 Heterofermentative inoculants to aid in keeping silage from heating in warm weather

8 INOCULANTS MARKET, BY MICROBE

8.1 INTRODUCTION

FIGURE 29 INOCULANTS MARKET, BY MICROBE, 2022 VS. 2027 (USD MILLION)

TABLE 40 INOCULANTS MARKET, BY MICROBE, 2017–2021 (USD MILLION)

TABLE 41 INOCULANTS MARKET, BY MICROBE, 2022–2027 (USD MILLION)

8.2 BACTERIAL

8.2.1 BACTERIAL INOCULANTS TO REPLACE FERTILIZERS TO INCREASE CROP PRODUCTIVITY

TABLE 42 BACTERIAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 43 BACTERIAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 44 BACTERIAL INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 45 BACTERIAL INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

8.2.2 MODE OF ACTION

8.2.2.1 Nitrogen fixation

8.2.2.2 Phosphate solubilization

8.2.2.3 Sequestering iron

8.2.2.4 Modulating phytohormone levels

8.2.3 TYPES OF BACTERIAL SOURCES

8.2.3.1 Rhizobacteria

8.2.3.2 Phosphobacteria

8.2.3.3 Azotobacter

8.2.3.4 Lactobacillus

8.2.3.5 Pediococcus

8.2.3.6 Enterococcus

8.2.3.7 Other bacterial

8.3 FUNGAL

8.3.1 INOCULANTS TO RELEASE ENZYMES THAT HELP PLANTS BREAK DOWN NUTRIENTS INTO MORE EASILY UTILIZED FORMS

TABLE 46 FUNGAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 47 FUNGAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 48 FUNGAL INOCULANTS MARKET, BY REGION, 2017–2021 (USD

MILLION)

TABLE 49 FUNGAL INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

8.3.2 TYPES OF FUNGAL SOURCES

8.3.2.1 Trichoderma spp.

8.3.2.2 Mycorrhiza

8.3.2.3 Other fungal

8.4 OTHER MICROBES

TABLE 50 OTHER MICROBIAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 51 OTHER MICROBIAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 52 OTHER MICROBIAL INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 53 OTHER MICROBIAL INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

9 INOCULANTS MARKET, BY CROP TYPE

9.1 INTRODUCTION

FIGURE 30 INOCULANTS MARKET BY CROP TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 54 INOCULANTS MARKET, BY CROP TYPE, 2017–2021 (USD MILLION)

TABLE 55 INOCULANTS MARKET, BY CROP TYPE, 2022–2027 (USD MILLION)

9.2 CEREALS & GRAINS

9.2.1 RISE IN DEMAND FOR CORN AND WHEAT TO FUEL MARKET

TABLE 56 CEREAL & GRAIN CROPS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 57 CEREAL & GRAIN CROPS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.3 OILSEEDS & PULSES

9.3.1 INCREASED DEMAND FOR SOYBEAN, CANOLA, PEAS, BEANS, AND OTHER LEGUME CROPS

TABLE 58 OILSEED & PULSE CROPS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 59 OILSEED & PULSE CROPS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.4 FRUITS & VEGETABLES

9.4.1 GREATER USE OF ORGANIC INPUTS FOR FRUIT & VEGETABLE PRODUCTION

TABLE 60 FRUIT & VEGETABLE CROPS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 61 FRUIT & VEGETABLE CROPS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.5 FORAGE

9.5.1 INOCULANTS TO IMPROVE SILAGE QUALITY BY FACILITATING ENSILING PROCESS

TABLE 62 FORAGE CROPS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 63 FORAGE CROPS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.6 OTHER CROP TYPES

TABLE 64 OTHER CROP TYPES MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 65 OTHER CROP TYPES MARKET, BY REGION, 2022–2027 (USD MILLION)

10 INOCULANTS MARKET, BY FORM

10.1 INTRODUCTION

FIGURE 31 INOCULANTS MARKET, BY FORM, 2022 VS. 2027 (USD MILLION)

TABLE 66 INOCULANTS MARKET, BY FORM, 2017–2021 (USD MILLION)

TABLE 67 INOCULANTS MARKET, BY FORM, 2022–2027 (USD MILLION)

10.2 DRY

10.2.1 LOW PRICE AND EASY STORAGE PROPERTIES TO DRIVE DEMAND

TABLE 68 DRY INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 69 DRY INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

10.3 LIQUID

10.3.1 EASE IN APPLICATION TO FOSTER SEGMENT GROWTH

TABLE 70 LIQUID INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 71 LIQUID INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

11 INOCULANTS MARKET, BY MODE OF APPLICATION

11.1 INTRODUCTION

11.2 SEED TREATMENT

11.3 SOIL TREATMENT

11.4 OTHER MODES OF APPLICATION

12 INOCULANTS MARKET, BY REGION

12.1 INTRODUCTION

FIGURE 32 INOCULANTS MARKET GROWTH RATE, BY KEY COUNTRY,

2022–2027

TABLE 72 INOCULANTS MARKET, BY REGION, 2017–2021 (USD MILLION)

TABLE 73 INOCULANTS MARKET, BY REGION, 2022–2027 (USD MILLION)

TABLE 74 INOCULANTS MARKET, BY REGION, 2017–2021 (KT)

TABLE 75 INOCULANTS MARKET, BY REGION, 2022–2027 (KT)

12.2 NORTH AMERICA

FIGURE 33 NORTH AMERICA: INOCULANTS MARKET SNAPSHOT

12.2.1 RECESSION IMPACT ANALYSIS

FIGURE 34 NORTH AMERICA: RECESSION IMPACT ANALYSIS

TABLE 76 NORTH AMERICA: INOCULANTS MARKET, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 77 NORTH AMERICA: INOCULANTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 78 NORTH AMERICA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 79 NORTH AMERICA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 80 NORTH AMERICA: INOCULANTS MARKET, BY TYPE, 2017–2021 (KT)

TABLE 81 NORTH AMERICA: INOCULANTS MARKET, BY TYPE, 2022–2027 (KT)

TABLE 82 NORTH AMERICA: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 83 NORTH AMERICA: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 84 NORTH AMERICA: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 85 NORTH AMERICA: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 86 NORTH AMERICA: INOCULANTS MARKET, BY FORM, 2017–2021 (USD MILLION)

TABLE 87 NORTH AMERICA: INOCULANTS MARKET, BY FORM, 2022–2027 (USD MILLION)

TABLE 88 NORTH AMERICA: INOCULANTS MARKET, BY MICROBE, 2017–2021 (USD MILLION)

TABLE 89 NORTH AMERICA: INOCULANTS MARKET, BY MICROBE, 2022–2027 (USD MILLION)

TABLE 90 NORTH AMERICA: INOCULANTS MARKET, BY CROP TYPE, 2017–2021 (USD MILLION)

TABLE 91 NORTH AMERICA: INOCULANTS MARKET, BY CROP TYPE, 2022–2027 (USD MILLION)

12.2.2 US

12.2.2.1 US to be largest market for inoculants due to awareness of advantages and high silage production

TABLE 92 US: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 93 US: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.2.3 CANADA

12.2.3.1 Increase in demand for meat and dairy products to contribute to market growth

TABLE 94 CANADA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 95 CANADA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.2.4 MEXICO

12.2.4.1 Advantages of inoculants in combating silage losses to offer high growth opportunities

TABLE 96 MEXICO: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 97 MEXICO: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3 EUROPE

12.3.1 RECESSION IMPACT ANALYSIS

FIGURE 35 EUROPE: RECESSION IMPACT ANALYSIS

TABLE 98 EUROPE: INOCULANTS MARKET, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 99 EUROPE: INOCULANTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 100 EUROPE: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 101 EUROPE: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 102 EUROPE: INOCULANTS MARKET, BY TYPE, 2017–2021 (KT)

TABLE 103 EUROPE: INOCULANTS MARKET, BY TYPE, 2022–2027 (KT)

TABLE 104 EUROPE: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 105 EUROPE: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 106 EUROPE: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 107 EUROPE: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 108 EUROPE: INOCULANTS MARKET, BY FORM, 2017–2021 (USD MILLION)

TABLE 109 EUROPE: INOCULANTS MARKET, BY FORM, 2022–2027 (USD MILLION)

TABLE 110 EUROPE: INOCULANTS MARKET, BY MICROBE, 2017–2021 (USD

MILLION)

TABLE 111 EUROPE: INOCULANTS MARKET, BY MICROBE, 2022–2027 (USD MILLION)

TABLE 112 EUROPE: INOCULANTS MARKET, BY CROP TYPE, 2017–2021 (USD MILLION)

TABLE 113 EUROPE: INOCULANTS MARKET, BY CROP TYPE, 2022–2027 (USD MILLION)

12.3.2 GERMANY

12.3.2.1 Rise in demand for organic foods to drive market

TABLE 114 GERMANY: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 115 GERMANY: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.3 FRANCE

12.3.3.1 Increase in growth of organic farmland area year-on-year to fuel market

TABLE 116 FRANCE: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 117 FRANCE: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.4 UK

12.3.4.1 Continuous rise in sale of organic food products to foster market

TABLE 118 UK: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 119 UK: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.5 RUSSIA

12.3.5.1 Increased focus on organic food and meat production to boost market

TABLE 120 RUSSIA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 121 RUSSIA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.6 SPAIN

12.3.6.1 Ranked among top ten markets for organic products

TABLE 122 SPAIN: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 123 SPAIN: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.7 ITALY

12.3.7.1 Higher organic food consumption due to rise in health concerns

TABLE 124 ITALY: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 125 ITALY: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.8 DENMARK

12.3.8.1 Investments by government in organic farming to propel market

TABLE 126 DENMARK: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 127 DENMARK: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.3.9 REST OF EUROPE

TABLE 128 REST OF EUROPE: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 129 REST OF EUROPE: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.4 ASIA PACIFIC

12.4.1 RECESSION IMPACT ANALYSIS

FIGURE 36 ASIA PACIFIC: RECESSION IMPACT ANALYSIS

TABLE 130 ASIA PACIFIC: INOCULANTS MARKET, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 131 ASIA PACIFIC: INOCULANTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 132 ASIA PACIFIC: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 133 ASIA PACIFIC: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 134 ASIA PACIFIC: INOCULANTS MARKET, BY TYPE, 2017–2021 (KT)

TABLE 135 ASIA PACIFIC: INOCULANTS MARKET, BY TYPE, 2022–2027 (KT)

TABLE 136 ASIA PACIFIC: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 137 ASIA PACIFIC: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 138 ASIA PACIFIC: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 139 ASIA PACIFIC: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 140 ASIA PACIFIC: INOCULANTS MARKET, BY FORM, 2017–2021 (USD MILLION)

TABLE 141 ASIA PACIFIC: INOCULANTS MARKET, BY FORM, 2022–2027 (USD MILLION)

TABLE 142 ASIA PACIFIC: INOCULANTS MARKET, BY MICROBE, 2017–2021 (USD MILLION)

TABLE 143 ASIA PACIFIC: INOCULANTS MARKET, BY MICROBE, 2022–2027 (USD MILLION)

TABLE 144 ASIA PACIFIC: INOCULANTS MARKET, BY CROP TYPE, 2017–2021 (USD MILLION)

TABLE 145 ASIA PACIFIC: INOCULANTS MARKET, BY CROP TYPE, 2022–2027 (USD MILLION)

12.4.2 CHINA

12.4.2.1 Increase in organic food market to drive demand for agricultural inoculants

TABLE 146 CHINA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 147 CHINA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.4.3 INDIA

12.4.3.1 Growth in poultry industry to foster demand for silage inoculants

TABLE 148 INDIA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 149 INDIA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.4.4 JAPAN

12.4.4.1 Significant demand for both agricultural and silage inoculants to make it fastest-growing Asia Pacific market

TABLE 150 JAPAN: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 151 JAPAN: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.4.5 AUSTRALIA & NEW ZEALAND

12.4.5.1 Australia's booming organic food industry and New Zealand's dairy industry to drive demand for inoculants

TABLE 152 AUSTRALIA & NEW ZEALAND: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 153 AUSTRALIA & NEW ZEALAND: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.4.6 INDONESIA

12.4.6.1 Growth in demand for meat to fuel demand for silage inoculants

TABLE 154 INDONESIA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 155 INDONESIA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.4.7 REST OF ASIA PACIFIC

TABLE 156 REST OF ASIA PACIFIC: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 157 REST OF ASIA PACIFIC: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.5 SOUTH AMERICA

FIGURE 37 SOUTH AMERICA: INOCULANTS MARKET SNAPSHOT

12.5.1 RECESSION IMPACT ANALYSIS

FIGURE 38 SOUTH AMERICA: RECESSION IMPACT ANALYSIS

TABLE 158 SOUTH AMERICA: INOCULANTS MARKET, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 159 SOUTH AMERICA: INOCULANTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 160 SOUTH AMERICA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD

MILLION)

TABLE 161 SOUTH AMERICA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 162 SOUTH AMERICA: INOCULANTS MARKET, BY TYPE, 2017–2021 (KT)

TABLE 163 SOUTH AMERICA: INOCULANTS MARKET, BY TYPE, 2022–2027 (KT)

TABLE 164 SOUTH AMERICA: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 165 SOUTH AMERICA: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 166 SOUTH AMERICA: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 167 SOUTH AMERICA: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 168 SOUTH AMERICA: INOCULANTS MARKET, BY FORM, 2017–2021 (USD MILLION)

TABLE 169 SOUTH AMERICA: INOCULANTS MARKET, BY FORM, 2022–2027 (USD MILLION)

TABLE 170 SOUTH AMERICA: INOCULANTS MARKET, BY MICROBE, 2017–2021 (USD MILLION)

TABLE 171 SOUTH AMERICA: INOCULANTS MARKET, BY MICROBE, 2022–2027 (USD MILLION)

TABLE 172 SOUTH AMERICA: INOCULANTS MARKET, BY CROP TYPE, 2017–2021 (USD MILLION)

TABLE 173 SOUTH AMERICA: INOCULANTS MARKET, BY CROP TYPE, 2022–2027 (USD MILLION)

12.5.2 BRAZIL

12.5.2.1 Demand for organic food products to lead to an increase in organic farming in region

TABLE 174 BRAZIL: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 175 BRAZIL: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.5.3 ARGENTINA

12.5.3.1 Increase in demand for organic products to fuel growth

TABLE 176 ARGENTINA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 177 ARGENTINA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.5.4 CHILE

12.5.4.1 Shift toward organic farming due to increasing demand from consumers and exports to propel market

TABLE 178 CHILE: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 179 CHILE: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.5.5 REST OF SOUTH AMERICA

TABLE 180 REST OF SOUTH AMERICA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 181 REST OF SOUTH AMERICA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.6 REST OF THE WORLD (ROW)

12.6.1 RECESSION IMPACT ANALYSIS

FIGURE 39 ROW: RECESSION IMPACT ANALYSIS

TABLE 182 ROW: INOCULANTS MARKET, BY COUNTRY, 2017–2021 (USD MILLION)

TABLE 183 ROW: INOCULANTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 184 ROW: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 185 ROW: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 186 ROW: INOCULANTS MARKET, BY TYPE, 2017–2021 (KT)

TABLE 187 ROW: INOCULANTS MARKET, BY TYPE, 2022–2027 (KT)

TABLE 188 ROW: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 189 ROW: AGRICULTURAL INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 190 ROW: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2017–2021 (USD MILLION)

TABLE 191 ROW: SILAGE INOCULANTS MARKET, BY SUBTYPE, 2022–2027 (USD MILLION)

TABLE 192 ROW: INOCULANTS MARKET, BY FORM, 2017–2021 (USD MILLION)

TABLE 193 ROW: INOCULANTS MARKET, BY FORM, 2022–2027 (USD MILLION)

TABLE 194 ROW: INOCULANTS MARKET, BY MICROBE, 2017–2021 (USD MILLION)

TABLE 195 ROW: INOCULANTS MARKET, BY MICROBE, 2022–2027 (USD MILLION)

TABLE 196 ROW: INOCULANTS MARKET, BY CROP TYPE, 2017–2021 (USD MILLION)

TABLE 197 ROW: INOCULANTS MARKET, BY CROP TYPE, 2022–2027 (USD MILLION)

12.6.2 MIDDLE EAST

12.6.2.1 Advancements in agricultural industry in Israel, Egypt, and Morocco to boost growth

TABLE 198 MIDDLE EAST: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 199 MIDDLE EAST: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

12.6.3 AFRICA

12.6.3.1 Rise in focus on production of cereals & grains to drive market

TABLE 200 AFRICA: INOCULANTS MARKET, BY TYPE, 2017–2021 (USD MILLION)

TABLE 201 AFRICA: INOCULANTS MARKET, BY TYPE, 2022–2027 (USD MILLION)

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW

13.2 STRATEGIES ADOPTED BY KEY PLAYER

TABLE 202 STRATEGIES ADOPTED BY KEY PLAYERS IN INOCULANTS MARKET

13.3 MARKET SHARE ANALYSIS

TABLE 203 GLOBAL INOCULANTS MARKET: DEGREE OF COMPETITION

13.4 REVENUE SHARE ANALYSIS OF KEY PLAYERS

FIGURE 40 REVENUE ANALYSIS OF KEY PLAYERS, 2019–2021 (USD BILLION)

13.5 COMPANY EVALUATION QUADRANT (KEY PLAYERS)

13.5.1 STARS

13.5.2 EMERGING LEADERS

13.5.3 PERVASIVE PLAYERS

13.5.4 PARTICIPANTS

FIGURE 41 INOCULANTS MARKET: COMPANY EVALUATION QUADRANT, 2021 (KEY PLAYERS)

13.6 PRODUCT FOOTPRINT

TABLE 204 COMPANY PRODUCT FOOTPRINT, BY TYPE

TABLE 205 COMPANY PRODUCT FOOTPRINT, BY MICROBE

TABLE 206 COMPANY PRODUCT FOOTPRINT, BY CROP TYPE

TABLE 207 COMPANY PRODUCT FOOTPRINT, BY REGION

TABLE 208 OVERALL COMPANY PRODUCT FOOTPRINT

13.7 STARTUP/SME EVALUATION QUADRANT (OTHER PLAYERS)

13.7.1 PROGRESSIVE COMPANIES

13.7.2 STARTING BLOCKS

13.7.3 RESPONSIVE COMPANIES

13.7.4 DYNAMIC COMPANIES

FIGURE 42 INOCULANTS MARKET: COMPANY EVALUATION QUADRANT, 2021 (OTHER PLAYERS)

13.7.5 COMPETITIVE BENCHMARKING OF OTHER PLAYERS

TABLE 209 DETAILED LIST OF OTHER PLAYERS

TABLE 210 COMPETITIVE BENCHMARKING (OTHER PLAYERS), 2021

13.8 COMPETITIVE SCENARIO

13.8.1 PRODUCT LAUNCHES

TABLE 211 INOCULANTS MARKET: NEW PRODUCT LAUNCHES, 2018–2022

13.8.2 DEALS

TABLE 212 INOCULANTS MARKET: DEALS, 2018–2022

13.8.3 OTHERS

TABLE 213 INOCULANTS MARKET: OTHERS, 2018–2022

14 COMPANY PROFILES

14.1 KEY COMPANIES

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

14.1.1 CORTEVA AGRISCIENCE

TABLE 214 CORTEVA AGRISCIENCE: COMPANY OVERVIEW

FIGURE 43 CORTEVA AGRISCIENCE: COMPANY SNAPSHOT

TABLE 215 CORTEVA AGRISCIENCE: PRODUCTS OFFERED

TABLE 216 CORTEVA AGRISCIENCE: DEALS

14.1.2 BASF SE

TABLE 217 BASF SE: BUSINESS OVERVIEW

FIGURE 44 BASF SE: COMPANY SNAPSHOT

TABLE 218 BASF SE: PRODUCTS OFFERED

TABLE 219 BASF SE: PRODUCT LAUNCHES

TABLE 220 BASF SE: DEALS

14.1.3 BAYER AG

TABLE 221 BAYER AG: BUSINESS OVERVIEW

FIGURE 45 BAYER AG: COMPANY SNAPSHOT

TABLE 222 BAYER AG: PRODUCTS OFFERED

TABLE 223 BAYER AG: DEALS

14.1.4 NOVOZYMES A/S

TABLE 224 NOVOZYMES A/S: BUSINESS OVERVIEW

FIGURE 46 NOVOZYMES A/S: COMPANY SNAPSHOT

TABLE 225 NOVOZYMES A/S: PRODUCTS OFFERED

TABLE 226 NOVOZYMES A/S: PRODUCT LAUNCHES

14.1.5 CARGILL, INCORPORATED

TABLE 227 CARGILL, INCORPORATED: BUSINESS OVERVIEW

FIGURE 47 CARGILL, INCORPORATED: COMPANY SNAPSHOT

TABLE 228 CARGILL, INCORPORATED: PRODUCTS OFFERED

14.1.6 ARCHER DANIELS MIDLAND COMPANY (ADM)

TABLE 229 ARCHER DANIELS MIDLAND COMPANY: BUSINESS OVERVIEW

FIGURE 48 ARCHER DANIELS MIDLAND COMPANY: COMPANY SNAPSHOT

TABLE 230 ARCHER DANIELS MIDLAND COMPANY: PRODUCTS OFFERED

TABLE 231 ARCHER DANIELS MIDLAND COMPANY: DEALS

14.1.7 DSM

TABLE 232 DSM: BUSINESS OVERVIEW

FIGURE 49 DSM: COMPANY SNAPSHOT

TABLE 233 DSM: PRODUCTS OFFERED

14.1.8 CHR. HANSEN HOLDING A/S

TABLE 234 CHR. HANSEN HOLDING A/S: BUSINESS OVERVIEW

FIGURE 50 CHR. HANSEN HOLDING A/S: COMPANY SNAPSHOT

TABLE 235 CHR. HANSEN HOLDING A/S: PRODUCTS OFFERED

TABLE 236 CHR. HANSEN HOLDING A/S: DEALS

14.1.9 LALLEMAND INC.

TABLE 237 LALLEMAND INC.: BUSINESS OVERVIEW

TABLE 238 LALLEMAND INC: PRODUCTS OFFERED

TABLE 239 LALLEMAND INC.: PRODUCT LAUNCHES

14.1.10 KEMIN INDUSTRIES, INC.

TABLE 240 KEMIN INDUSTRIES, INC.: BUSINESS OVERVIEW

TABLE 241 KEMIN INC: PRODUCTS OFFERED

TABLE 242 KEMIN INDUSTRIES, INC.: OTHERS

14.1.11 VERDESIAN LIFE SCIENCES

TABLE 243 VERDESIAN LIFE SCIENCES: BUSINESS OVERVIEW

TABLE 244 VERDESIAN LIFE SCIENCES: PRODUCTS OFFERED

TABLE 245 VERDESIAN LIFE SCIENCES: PRODUCT LAUNCHES

TABLE 246 VERDESIAN LIFE SCIENCES: DEALS

14.1.12 BIO-CAT

TABLE 247 BIO-CAT: BUSINESS OVERVIEW

TABLE 248 BIO-CAT: PRODUCTS OFFERED

TABLE 249 BIO-CAT: OTHERS

14.1.13 MBFI

TABLE 250 MICROBIAL BIOLOGICAL FERTILIZERS INTERNATIONAL: BUSINESS OVERVIEW

TABLE 251 MICROBIAL BIOLOGICAL FERTILIZERS INTERNATIONAL: PRODUCTS OFFERED

14.1.14 AGRAUXINE

TABLE 252 AGRAUXINE: BUSINESS OVERVIEW

TABLE 253 AGRAUXINE: PRODUCTS OFFERED

TABLE 254 AGRAUXINE: DEALS

14.1.15 PROVITA SUPPLEMENTS GMBH

TABLE 255 PROVITA SUPPLEMENTS GMBH: BUSINESS OVERVIEW**TABLE 256 PROVITA SUPPLEMENTS GMBH: PRODUCTS OFFERED****14.2 OTHER PLAYERS**

14.2.1 NEUGEN BIOLOGICALS PVT LTD

TABLE 257 NEUGEN BIOLOGICALS PVT LTD: BUSINESS OVERVIEW**TABLE 258 NEUGEN BIOLOGICALS PVT LTD: PRODUCTS OFFERED**

14.2.2 PRECISION LABORATORIES, LLC

TABLE 259 PRECISION LABORATORIES, LLC: BUSINESS OVERVIEW**TABLE 260 PRECISION LABORATORIES, LLC: PRODUCTS OFFERED**

14.2.3 QUEENSLAND AGRICULTURAL SEEDS

TABLE 261 QUEENSLAND AGRICULTURAL SEEDS: BUSINESS OVERVIEW**TABLE 262 QUEENSLAND AGRICULTURAL SEEDS: PRODUCTS OFFERED**

14.2.4 XITEBIO TECHNOLOGIES INC.

TABLE 263 XITEBIO TECHNOLOGIES INC.: BUSINESS OVERVIEW**TABLE 264 XITEBIO TECHNOLOGIES INC.: PRODUCTS OFFERED****TABLE 265 XITEBIO TECHNOLOGIES INC.: PRODUCT LAUNCHES**

14.2.5 TERRAMAX, INC.

TABLE 266 TERRAMAX, INC.: BUSINESS OVERVIEW**TABLE 267 TERRAMAX, INC.: PRODUCTS OFFERED**

14.2.6 SOIL TECHNOLOGIES CORPORATION

TABLE 268 SOIL TECHNOLOGIES CORPORATION: COMPANY OVERVIEW

14.2.7 HORTICULTURAL ALLIANCE, LLC.

TABLE 269 HORTICULTURAL ALLIANCE, LLC.: COMPANY OVERVIEW

14.2.8 AGRI LIFE

TABLE 270 AGRI LIFE: COMPANY OVERVIEW

14.2.9 STRONG MICROBIALS

TABLE 271 STRONG MICROBIALS: COMPANY OVERVIEW

14.2.10 PRIONS BIO TECH

TABLE 272 PRIONS BIOTECH PVT LTD.: COMPANY OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

15 ADJACENT AND RELATED MARKETS**15.1 INTRODUCTION****TABLE 273 ADJACENT MARKETS TO INOCULANTS MARKET**

15.2 STUDY LIMITATIONS

15.3 BIOSTIMULANTS MARKET

15.3.1 MARKET DEFINITION

15.3.2 MARKET OVERVIEW

TABLE 274 BIOSTIMULANTS MARKET, BY ACTIVE INGREDIENT, 2020–2027 (USD MILLION)

15.4 BIOFERTILIZERS MARKET

15.4.1 MARKET DEFINITION

15.4.2 MARKET OVERVIEW

TABLE 275 BIOFERTILIZERS MARKET, BY TYPE, 2019–2026 (USD MILLION)

16 APPENDIX

16.1 DISCUSSION GUIDE

16.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

16.3 CUSTOMIZATION OPTIONS

16.4 RELATED REPORTS

16.5 AUTHOR DETAILS

About

The report “Agricultural Inoculants Market by Type (PGPMs, Bio-Control Agents, & Plant Resistance Stimulants), Source (Bacterial & Fungal), Mode of Application, Crop Type, & Geography - Global Trends & Forecasts to 2019”, defines and segments of the agricultural inoculants market with analyses and projection of the size and trends in terms of value.

The agricultural inoculants market, in terms of value, is projected to reach \$398.56 million by 2019, at a CAGR of around 9.5% from 2014.

The market has been segmented on the basis of major regions such as North America, Europe, Asia-Pacific, Latin America, and Rest of the World (ROW); and their value has been projected. The size of the markets in the key countries have also been covered and projected for each region. The market has further been segmented on the basis of mode of application, by type, by source, by crop type and their size has been projected.

Agricultural inoculants are the formulations of beneficial living organisms that when added to the soil, directly or indirectly improve their nutrient availability to the host plant and promote plant growth and development. Sustainable agriculture is configured on use of a variety of prophecies, phenomena, and products stressing on land reclamation, and awareness towards hazards of over fertilization and pollution on health and ecosystem. This concept urges the utilization of an array of techniques as organic farming, biofertilizers, and biocontrol agents. Seed or soil inoculation with agricultural inoculants has the potential to offer more eco-friendly agricultural production than the use of mineral fertilizer and chemical pesticides intensive crop production system. Organic supplementation with organic sources such as manure, compost or vermiculite, along with agricultural inoculants such as Rhizobacteria and Azotobacter could further enhance crop yield and development.

The global market for agricultural inoculants was valued at around \$232.22 million in 2013. This market is projected to grow at a CAGR of 9.5% from 2014 to reach \$398.56 million by 2019. North America dominated the global agricultural inoculants market in 2013. The Latin American demand for these compounds is projected to emerge as the fastest growing at a CAGR growth rate of ~10% from 2014 to 2019. Agricultural inoculants consumption and developments varies according to the regional popular crops such as soybean crop in the U.S., Brazil, and Argentina, pea and lentil crops in Canada, rice crop in India, China, Thailand, Philippines, and Vietnam.

The agricultural inoculants market is highly fragmented with key market players driving the growth with agreements, expansions, acquisitions and new product launches. Numerous manufacturers, mainly small to medium size, exist worldwide and have been producing inoculant products similar in quality and quantity for decades. The market is competitive with leading players being involved in the research & development of new agricultural inoculants. The market caters to the applications such as plant growth promoting micro-organisms, bio-control agents, and plant resistance stimulants. Lack of awareness among the farmers and prevailing problems with manufacturers, marketing, and distribution issues are restricting the availability of inoculants at farm level and thus hindering the growth of the agricultural inoculants market.

Novozymes A/S (Denmark)

BASF SE (Germany)

DuPont (U.S.)

Advanced Biological Marketing, Inc. (U.S.)

collectively account for around 70% of the total agricultural inoculants market share. Other players such as Bayer CropScience (Australia), BrettYoung (Canada), XiteBio Technologies Inc. (Canada), Verdesian Life Sciences, LLC. (U.S.), Precision Laboratories, LLC (U.S.), and Queensland Agricultural Seeds Pty. Ltd. (Australia) also have a strong presence in the market.

I would like to order

Product name: Inoculants Market by Type (Agricultural Inoculants and Silage Inoculants), Microbe (Bacterial and Fungal), Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables, and Forage Crops), Form (Liquid and Dry) and Region - Global Forecast to 2027

Product link: <https://marketpublishers.com/r/ADB85670708EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/ADB85670708EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970