

Bioinsecticides Market by Organism Type (Bacteria Thuringiensis, Beauveria Bassiana, and Metarhizium Anisopliae), Type (Microbials and Macrobiotics), Mode of Application, Formulation, Crop Type, and Region - Global Trends & Forecast to 2025

<https://marketpublishers.com/r/BA8C8FB64B2EN.html>

Date: May 2020

Pages: 194

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

ID: BA8C8FB64B2EN

Abstracts

“The bioinsecticides market is projected to grow at a CAGR of 15.8% during the forecast period.”

The global bioinsecticides market size is projected to grow at a CAGR of 15.8% from an estimated value of USD 2.2billion in 2020 to reach USD 4.6billion by 2025. The bioinsecticides industry has been gaining wide importance among farmers to produce residue-free food products with the adoption of microorganisms based bioinsecticides. Biological solutions have proved to be an effective alternative to conventional chemicals and even work best when applied as a combination.

The increasing infestation of crops produced on a large-scale has compelled the usage of sustainable solutions such as bioinsecticides as they help in controlling pesticide-resistant insects. The growth in organic farming and an increase in the acceptance of organic crops have led to the implementation of Integrated Pest Management (IPM) solutions. Poor knowledge of the application of biologicals, storage issues, and other technological constraints are expected to restrain the growth of the market.

“The baculovirus market to grow at the highest rate during the forecast period.”

Baculovirus is projected to be the fastest-growing market among other organisms. Increased insect pest attack has been affecting the of the greenhouse cash crops, which accounts for a huge loss for farmers. Invasive pests such as Tuta absoluta have

resulted in great loss in many European regions, which has been efficiently controlled using baculovirus.

Even the US is a huge market for virus-based bioinsecticides. Its gaining wider popularity in comparison with *Bacillus* species and product availability are also driving the growth of the market. Insect pest attack is a severe problem observed in many regions of the world affecting crop production, and hence, it will gain a significant share of demand among the companies to produce various strains of baculovirus.

“The liquid formulation bioinsecticides market to be the largest and faster-growing among formulations segment for the forecast period.”

Liquid formulations are estimated to account for the larger market share in the forecast period. The ease of application and transportation are the key drivers for the growth of the liquid formulations segment. Farmers have been using it from many years, as it is easy and safe to handle in comparison with dry formulation. With the increase in organic farming and increased acreages under precision irrigation technologies, the liquid formulations market is estimated to continue growing in the future as well.

“South America is estimated to be the fastest-growing bioinsecticides market during the forecast period.”

South America includes various countries whose economy relies mainly on agriculture. The countries are adopting sustainable solutions to cultivate residue-free crops to be able to export crops such as soybean and corn to Europe. It cultivates various high-value crops, both for domestic and export purposes, which drives the demand for bioinsecticides. The increase in the infestation of pests due to pest resistance in high-value crops is also driving the growth of the market. With the awareness of organic farming and harmful effects of chemical-based farming, consumers have tend to accept the organic crops. The government also has introduced strict regulations on the use of chemical pesticides that not only kill the beneficial insects but increase intoxicity across the food chain. Therefore, the ban on pesticides has been proposed by the government to reduce the impact of chemical pesticides on bees. The demand to increase the export quality of crops has led to an increase in the market for bioinsecticides.

The bioinsecticides market is segmented market-wise, with a detailed analysis of each market by studying the individual competitive landscapes.

Breakdown of the profile of primary participants is as follows:

Bioinsecticides Market by Organism Type (Bacteria Thuringiensis, Beauveria Bassiana, and Metarhizium Anisoplia...

By Company Type: Tier 1 -10%, Tier 11-30%, and Tier 31-60%

By Designation: C-level -40%, D-level -30%, and Others*-30%

By Region: Asia Pacific -35%, Europe -30%, North America -20%, and RoW-15%

*Others include sales managers, marketing managers, and product managers.

Leading players profiled in this report

BASF SE (Germany)

Syngenta AG (Switzerland)

BayerAG (Germany)

Marrone Bio Innovation (US)

Novozymes A/S (Denmark)

Nufarm (Australia)

Som Phytopharma India Ltd (India)

Camson Biotechnologies Ltd (India)

BioWorks Inc. (US)

Valent Biosciences (US)

Andermatt Biocontrol AG (Switzerland)

Valent Biosciences LLC (US)

International Panaacea Ltd (India)

Futureco Bioscience S.A.

BioSafe Systems, LLC. (US)

Vestaron Corporation (US)

Kan Biosys (India)

SDS Biotech K.K(Japan)

KilPest India Ltd (India)

Certis US LLC (US)

Biobest Group NV (Belgium)

Research Coverage

This report segments the bioinsecticides market based on key trends. In terms of insights, this research report focuses on various levels of analyses—competitive landscape, end-use analysis, and company profiles—which together comprise and discuss the basic views on the emerging & high-growth segments of the bioinsecticides industry, the high-growth regions, countries, government initiatives, market disruption, drivers, restraints, opportunities, and challenges.

Reasons to buy this report

To get a comprehensive overview of the bioinsecticides market

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

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

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
- 1.4 INCLUSIONS & EXCLUSIONS
- 1.5 PERIODIZATION CONSIDERED
- 1.6 CURRENCY CONSIDERED
- 1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 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
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN & DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS & LIMITATIONS
 - 2.4.1 ASSUMPTIONS
 - 2.4.2 LIMITATIONS OF THE STUDY

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 OPPORTUNITIES IN THE BIOINSECTICIDES MARKET
- 4.2 BIOINSECTICIDES MARKET, BY TYPE
- 4.3 SOUTH AMERICA: BIOINSECTICIDES MARKET, BY KEY COUNTRY & CROP TYPE
- 4.4 BIOINSECTICIDES MARKET, BY ORGANISM TYPE & REGION
- 4.5 BIOINSECTICIDES MARKET: MAJOR REGIONAL SUBMARKETS

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 GROWTH IN ORGANIC AGRICULTURAL PRACTICES

5.2.2 INCREASE IN ORGANIC FARM AREA

5.3 MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 Increase in pest resurgence and Integrated Pest Management (IPM) measures

5.3.1.2 Growth in acceptance for organic food

5.3.1.3 Awareness programs by government agencies

5.3.1.4 Huge crop loss due to invasive pest attacks

5.3.1.5 High costs associated with the development of synthetic crop protection products

5.3.2 RESTRAINTS

5.3.2.1 Short shelf life of bioinsecticides

5.3.2.2 Poor infrastructure & high initial investment required for storage and transport of bioinsecticides

5.3.3 OPPORTUNITIES

5.3.3.1 High growth in bio-control seed treatment solutions

5.3.3.2 Providing customized solutions targeted toward specific pests

5.3.3.3 Growth opportunities in developing regions such as Asia Pacific and South America

5.3.4 CHALLENGES

5.3.4.1 Counterfeit products in developing countries

5.3.4.2 Lack of awareness and low utilization of bioinsecticides

5.4 REGULATORY FRAMEWORK

5.4.1 NORTH AMERICA

5.4.1.1 US

5.4.1.1.1 The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

5.4.1.1.2 The Federal Food, Drug, and Cosmetic Act (FFDCA) and the Food Quality Protection Act (FQPA)

5.4.1.1.3 Pesticide Registration Improvement Extension Act (PRIA 3), 2012

5.4.1.1.4 Biopesticide Registration

5.4.2 EUROPE

5.4.2.1 European Union

5.4.2.1.1 Regulation (EC) No 1107/2009 of the European Parliament and of the council of 21 October 2009

5.4.2.1.2 Scope

5.4.2.1.3 Active Substances: Requirements and Conditions for Approval

5.4.3 ASIA PACIFIC

5.4.3.1 India

5.4.3.2 China

5.4.4 SOUTH AMERICA

5.4.4.1 Brazil

5.5 SUPPLY CHAIN ANALYSIS

5.5.1 COVID-19 IMPACT ON THE BIOINSECTICIDES MARKET

5.6 VALUE CHAIN ANALYSIS

5.7 PATENT ANALYSIS

6 BIOINSECTICIDES MARKET, BY MODE OF APPLICATION

6.1 INTRODUCTION

6.2 SEED TREATMENT

6.2.1 SEED TREATMENT IS GAINING POPULARITY TO CONTROL SOILBORNE PESTS

6.3 SOIL TREATMENT

6.3.1 SOIL TREATMENT USED DURING EARLY STAGES OF PLANT GROWTH, TO PREVENT SOIL BORNE INSECT LARVAE ATTACK

6.4 FOLIAR SPRAY

6.4.1 FOLIAR SPRAY HAS BEEN THE PREFERRED APPLICATION IN ALL KEY CROPS

6.5 OTHER MODES OF APPLICATION

6.5.1 BIOINSECTICIDES ARE GAINING INTEREST FOR POST-HARVEST PROTECTION OF FRUITS & VEGETABLES

7 BIOINSECTICIDES MARKET, BY ORGANISM TYPE

7.1 INTRODUCTION

7.2 BACILLUS THURINGIENSIS

7.2.1 BT BIOINSECTICIDES ARE GAINING INTEREST AS POST-HARVEST PROTECTION FOR FRUITS & VEGETABLES

7.3 BEAUVERIA BASSIANA

7.3.1 B.BASSIANA IS USED TO CONTROL WHITEFLY, YELLOW STEM BORER, AND BROWN PLANT HOPPER

7.4 METARHIZIUM ANISOPLIAE

7.4.1 M.ANISOPLIAE MAKE AN EFFECTIVE TOOL TO CONTROL SPITTLE BUG IN

SUGARCANE

7.5 VERTICILLIUM LECANII

7.5.1 THE FUNGUS HAS A WIDE RANGE OF APPLICATIONS ON VARIOUS CROPS

7.6 BACULOVIRUS

7.6.1 BACULOVIRUSES ARE EFFECTIVE IN IPM PROGRAMS

7.7 OTHER ORGANISM TYPE

7.7.1 NEMATODES ARE BEING RESEARCHED ON TO DEVELOP BIOINSECTICIDES

8 BIOINSECTICIDES MARKET, BY CROP TYPE

8.1 INTRODUCTION

8.2 CEREALS & GRAINS

8.2.1 BIOINSECTICIDES REDUCE CHEMICAL APPLICATION ON CEREAL CROPS BOTH DURING CULTIVATION AND STORAGE

8.3 OILSEEDS & PULSES

8.3.1 ADOPTION OF BEAUVERIA BASSIANA AND METARHIZIUM ANISOPLIAE HAS BEEN INCREASING FOR OILSEED CROPS IN CERTAIN REGIONS

8.4 FRUITS & VEGETABLES

8.4.1 ORGANIC FARMING OF HIGH-VALUE CROPS IS GAINING HIGH DEMAND

8.5 OTHER CROP TYPES

8.5.1 INCREASE IN THE TURF GROUNDS HAVE LATELY CREATED A MARKET FOR BIOLOGICAL INPUTS

9 BIOINSECTICIDES MARKET, BY TYPE

9.1 INTRODUCTION

9.2 MACROBIALS

9.2.1 LIMITED SHELF LIFE HINDERS THE GROWTH OF MACROBIALS

9.3 MICROBIALS

9.3.1 TARGET-SPECIFIC ACTION ON CROP-DAMAGING PESTS HAS BEEN A MAJOR ATTRIBUTE FOR MICROBIAL APPLICATION

9.4 OTHER TYPES

9.4.1 COLLECTIVE BENEFITS OF PROTECTION THROUGH PLANT EXTRACTS IS A SIGNIFICANT FACTOR FOR PRODUCT RESEARCH AMONG MANUFACTURERS

10 BIOINSECTICIDES MARKET, BY FORMULATION

10.1 INTRODUCTION

10.2 DRY

10.2.1 DRY FORMULATIONS ARE SUITABLE FOR SOIL OR SEED TREATMENT

10.3 LIQUID

10.3.1 LIQUID FORMULATIONS REDUCE OCCUPATIONAL RISK AND ARE PREFERRED FOR BIOINSECTICIDES THAT ARE HOST-SPECIFIC

11 BIOINSECTICIDES MARKET, BY REGION

11.1 INTRODUCTION

11.2 NORTH AMERICA

11.2.1 US

11.2.1.1 Change in food habits is paving the way for organic products in the US

11.2.2 CANADA

11.2.2.1 Production of greenhouse ornamentals to drive the market in Canada

11.2.3 MEXICO

11.2.3.1 Bacillus and Beauveria species gaining demand among corn and vegetable growers in Mexico

11.3 EUROPE

11.3.1 FRANCE

11.3.1.1 Investment in biological control is driving the market in France

11.3.2 GERMANY

11.3.2.1 Public and private funds aid the growth of the biological segment in Germany

11.3.3 SPAIN

11.3.3.1 A positive trend of bioinsecticide application in controlling pest attacks on crops in Spain

11.3.4 ITALY

11.3.4.1 Ban of toxic pesticides in Italy has paved the way for bioinsecticides

11.3.5 UK

11.3.5.1 Changing consumer preferences is driving the bioinsecticides market

11.3.6 REST OF EUROPE

11.3.6.1 Favorable regulations drive the use of bioinsecticides in Rest of Europe

11.4 ASIA PACIFIC

11.4.1 CHINA

11.4.1.1 Food safety concerns have paved the way for subsidized biological products in China

11.4.2 INDIA

11.4.2.1 To minimize the toxic levels in the food chain, eco-friendly products are on

the rise in India

11.4.3 JAPAN

11.4.3.1 Strong IPM involving biologicals has played an important role in the significant production of residue-free food in Japan

11.4.4 AUSTRALIA

11.4.4.1 Investment programs have boosted the introduction of advanced agricultural inputs in Australia

11.4.5 THAILAND

11.4.5.1 Global demand for crops such as rice has driven changes in agricultural policies in Thailand

11.4.6 INDONESIA

11.4.6.1 Adoption of IPM solutions created a strong demand base for pest control in Indonesia

11.4.7 REST OF ASIA PACIFIC

11.4.7.1 Agriculture, being the main source of income, has boosted the demand for innovative agricultural products in Rest of Asia Pacific

11.5 SOUTH AMERICA

11.5.1 BRAZIL

11.5.1.1 The favorable regulatory mechanism is pushing the adoption of biocontrol products in Brazil

11.5.2 ARGENTINA

11.5.2.1 To maintain international export quality of produce in Argentina, the bioinsecticides market is booming

11.5.3 CHILE

11.5.3.1 Technological innovations to aid the control of crop pests in Chile

11.5.4 REST OF SOUTH AMERICA

11.5.4.1 Favorable market opportunities accelerate the growth in Rest of South America

11.6 REST OF THE WORLD

11.6.1 SOUTH AFRICA

11.6.1.1 Economic losses due to pest attack on crops are driving the South African bioinsecticides market

11.6.2 OTHERS IN ROW

11.6.2.1 Export of residue-free agricultural produce is gaining demand

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

12.2 COMPANY RANKING

12.3 COMPETITIVE LEADERSHIP MAPPING

12.3.1 VISIONARY LEADERS

12.3.2 INNOVATORS

12.3.3 DYNAMIC DIFFERENTIATORS

12.3.4 EMERGING COMPANIES

12.4 COMPETITIVE SCENARIO

12.4.1 NEW PRODUCT LAUNCHES

12.4.2 EXPANSIONS & INVESTMENTS

12.4.3 ACQUISITIONS

12.4.4 AGREEMENTS & COLLABORATIONS

13 COMPANY PROFILES

(Business overview, Products offered, Recent Developments, SWOT analysis, Right to win)*

13.1 BASF SE

13.2 BAYER AG

13.3 SYNGENTA AG

13.4 MARRONE BIO INNOVATIONS

13.5 NOVOZYMES A/S

13.6 NUFARM

13.7 BIOBEST GROUP NV

13.8 SOM PHYTOPHARMA INDIA LTD

13.9 VALENT BIOSCIENCES LLC

13.10 KILPEST INDIA LTD

13.11 ANDERMATT BIOCONTROL AG

13.12 INTERNATIONAL PANACEA LTD

13.13 BIOWORKS INC.

13.14 KAN BIOSYS

13.15 FUTURECO BIOSCIENCE S.A.

13.16 BIOSAFE SYSTEMS

13.17 CERTIS USA LLC

13.18 VESTARON CORPORATION

13.19 SDS BIOTECH K.K

13.20 CAMSON BIOTECHNOLOGIES LTD

*Details on Business overview, Products offered, Recent Developments, SWOT analysis, Right to win might not be captured in case of unlisted companies.

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

14.3 RELATED REPORTS

14.4 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 USD EXCHANGE RATES, 2015–2019

TABLE 2 RECENT PATENTS GRANTED WITH RESPECT TO BIOINSECTICIDES

TABLE 3 BIOINSECTICIDES MARKET SIZE, BY MODE OF APPLICATION,
2020–2025 (USD MILLION)

TABLE 4 BIOINSECTICIDE SEED TREATMENT MARKET SIZE, BY REGION,
2018–2025 (USD MILLION)

TABLE 5 BIOINSECTICIDE SOIL TREATMENT MARKET SIZE, BY REGION,
2018–2025 (USD MILLION)

TABLE 6 BIOINSECTICIDE FOLIAR SPRAY MARKET SIZE, BY REGION, 2018–2025
(USD MILLION)

TABLE 7 OTHER MODES OF BIOINSECTICIDE APPLICATION MARKET SIZE, BY
REGION, 2018–2025 (USD MILLION)

TABLE 8 BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD
MILLION)

TABLE 9 BACILLUS THURINGIENSIS BIOINSECTICIDE MARKET SIZE, BY REGION,
2018–2025 (USD MILLION)

TABLE 10 BEAUVERIA BASSIANA: BIOINSECTICIDE MARKET SIZE, BY REGION,
2018–2025 (USD MILLION)

TABLE 11 METARHIZIUM ANISOPLIAE: BIOINSECTICIDE MARKET SIZE, BY
REGION, 2018–2025 (USD MILLION)

TABLE 12 VERTICILLIUM LECANII BIOINSECTICIDE MARKET SIZE, BY REGION,
2018–2025 (USD MILLION)

TABLE 13 BACULOVIRUS BIOINSECTICIDE MARKET SIZE, BY REGION, 2018–2025
(USD MILLION)

TABLE 14 OTHER BIOINSECTICIDAL ORGANISM TYPES MARKET SIZE, BY
REGION, 2018–2025 (USD MILLION)

TABLE 15 BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD
MILLION)

TABLE 16 BIOINSECTICIDES MARKET SIZE IN CEREALS & GRAINS, BY REGION,
2018–2025 (USD MILLION)

TABLE 17 BIOINSECTICIDES MARKET SIZE IN OILSEEDS & PULSES, BY REGION,
2018–2025 (USD MILLION)

TABLE 18 BIOINSECTICIDES MARKET SIZE IN FRUITS & VEGETABLES, BY
REGION, 2018–2025 (USD MILLION)

TABLE 19 BIOINSECTICIDES MARKET SIZE IN OTHER CROP TYPES, BY REGION,

2018–2025 (USD MILLION)

TABLE 20 BIOINSECTICIDES MARKET SIZE, BY TYPE, 2018–2025 (USD MILLION)

TABLE 21 BIOINSECTICIDAL MACROBIALS MARKET SIZE, BY REGION, 2018–2025 (USD MILLION)

TABLE 22 BIOINSECTICIDAL MICROBIALS MARKET SIZE, BY REGION, 2018–2025 (USD MILLION)

TABLE 23 OTHER BIOINSECTICIDE TYPES MARKET SIZE, BY REGION, 2018–2025 (USD MILLION)

TABLE 24 BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2018–2025 (USD MILLION)

TABLE 25 DRY FORMULATION MARKET SIZE, BY REGION, 2018–2025 (USD MILLION)

TABLE 26 LIQUID FORMULATIONS MARKET SIZE, BY REGION, 2018–2025 (USD MILLION)

TABLE 27 BIOINSECTICIDES MARKET SIZE, BY REGION, 2018–2025 (USD MILLION)

TABLE 28 NORTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 29 NORTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY MODE OF APPLICATION, 2018–2025 (USD MILLION)

TABLE 30 NORTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY TYPE, 2018–2025 (USD MILLION)

TABLE 31 NORTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 32 NORTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 33 NORTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2018–2025 (USD MILLION)

TABLE 34 US: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 35 US: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 36 CANADA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 37 CANADA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 38 MEXICO: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 39 MEXICO: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025

(USD MILLION)

TABLE 40 EUROPE: BIOINSECTICIDES MARKET SIZE, BY COUNTRY, 2018–2025

(USD MILLION)

TABLE 41 EUROPE: BIOINSECTICIDES MARKET SIZE, BY MODE OF APPLICATION, 2018–2025 (USD MILLION)

TABLE 42 EUROPE: BIOINSECTICIDES MARKET SIZE, BY TYPE, 2018–2025 (USD MILLION)

TABLE 43 EUROPE: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 44 EUROPE: BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2018–2025 (USD MILLION)

TABLE 45 FRANCE: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 46 FRANCE: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 47 GERMANY: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 48 GERMANY: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 49 SPAIN: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 50 SPAIN: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 51 ITALY: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 52 ITALY: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 53 UK: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 54 UK: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 55 REST OF EUROPE: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 56 REST OF EUROPE: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 57 ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 58 ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY MODE OF APPLICATION, 2018–2025 (USD MILLION)

TABLE 59 ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY TYPE, 2018–2025 (USD MILLION)

TABLE 60 ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 61 ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 62 ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2018–2025 (USD MILLION)

TABLE 63 CHINA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 64 CHINA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 65 INDIA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 66 INDIA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 67 JAPAN: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 68 JAPAN: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 69 AUSTRALIA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 70 AUSTRALIA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 71 THAILAND: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 72 THAILAND: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 73 INDONESIA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 74 INDONESIA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 75 REST OF ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 76 REST OF ASIA PACIFIC: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 77 SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 78 SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY MODE OF

APPLICATION, 2018–2025 (USD MILLION)

TABLE 79 SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY TYPE, 2018–2025 (USD MILLION)

TABLE 80 SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 81 SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2018–2025 (USD MILLION)

TABLE 82 SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 83 BRAZIL: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 84 BRAZIL: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 85 ARGENTINA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 86 ARGENTINA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 87 CHILE: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 88 CHILE: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 89 REST OF SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 90 REST OF SOUTH AMERICA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 91 ROW: BIOINSECTICIDES MARKET SIZE, BY COUNTRY, 2018–2025 (USD MILLION)

TABLE 92 ROW: BIOINSECTICIDES MARKET SIZE, BY MODE OF APPLICATION, 2018–2025 (USD MILLION)

TABLE 93 ROW: BIOINSECTICIDES MARKET SIZE, BY TYPE, 2018–2025 (USD MILLION)

TABLE 94 ROW: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 95 ROW: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 96 ROW: BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2018–2025 (USD MILLION)

TABLE 97 SOUTH AFRICA: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 98 SOUTH AFRICA: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 99 OTHERS IN ROW: BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2018–2025 (USD MILLION)

TABLE 100 OTHERS IN ROW: BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2018–2025 (USD MILLION)

TABLE 101 NEW PRODUCT LAUNCHES, 2018–2020

TABLE 102 EXPANSIONS & INVESTMENTS, 2019–2020

TABLE 103 ACQUISITIONS, 2018–2019

TABLE 104 AGREEMENTS & COLLABORATIONS, 2019–2020

List Of Figures

LIST OF FIGURES

FIGURE 1 BIOINSECTICIDES MARKET SEGMENTATION

FIGURE 2 REGIONAL SEGMENTATION

FIGURE 3 RESEARCH DESIGN: BIOINSECTICIDES MARKET

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 6 DATA TRIANGULATION METHODOLOGY

FIGURE 7 BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2020 VS. 2025 (USD MILLION)

FIGURE 8 LIQUID FORMULATION IS PROJECTED TO DOMINATE BY 2025

FIGURE 9 FRUIT & VEGETABLE CULTIVATION IS ESTIMATED TO DOMINATE THE BIOINSECTICIDES MARKET IN 2020

FIGURE 10 NORTH AMERICA AND EUROPE WERE THE LARGEST MARKETS IN TERMS OF VALUE IN 2019

FIGURE 11 GRADUAL PHASE OUT OF KEY ACTIVE INGREDIENTS TO DRIVE THE GROWTH OF THE BIOINSECTICIDES MARKET

FIGURE 12 MICROBIALS BIOINSECTICIDES WERE PREFERRED IN THE MARKET IN 2019

FIGURE 13 BRAZIL WAS A MAJOR CONSUMER OF BIOINSECTICIDES IN THE SOUTH AMERICAN REGION IN 2019

FIGURE 14 NORTH AMERICA ACCOUNTED FOR THE LARGEST MARKET SHARE FOR BACILLUS THURINGIENSIS IN 2019

FIGURE 15 THE US ACCOUNTED FOR THE LARGEST MARKET SHARE IN 2019

FIGURE 16 GLOBAL ORGANIC AGRICULTURE SHARE, BY REGION, 2017

FIGURE 17 ORGANIC FARM AREA GROWTH TREND, 2015–2017

FIGURE 18 HIGH COSTS IN THE DEVELOPMENT OF SYNTHETIC CROP PROTECTION PRODUCTS TO DRIVE THE GROWTH OF THE MARKET

FIGURE 19 GLOBAL ORGANIC AREA FARMLAND, 2007–2018 ('000 HA)

FIGURE 20 REDUCED INTRODUCTION OF NEW ACTIVE INGREDIENTS

FIGURE 21 PESTICIDE USAGE IN AGRICULTURE, BY REGION, 2015–2017 (TONNE)

FIGURE 22 SUPPLY CHAIN ANALYSIS

FIGURE 23 VALUE CHAIN ANALYSIS

FIGURE 24 BIOINSECTICIDE PATENTS, 2013–2020

FIGURE 25 BIOINSECTICIDES MARKET PATENT ANALYSIS, BY REGION, 2013–2020

FIGURE 26 BIOINSECTICIDES MARKET SIZE, BY MODE OF APPLICATION, 2020 VS. 2025 (USD MILLION)

FIGURE 27 BIOINSECTICIDES MARKET SIZE, BY ORGANISM TYPE, 2020 VS. 2025 (USD MILLION)

FIGURE 28 BIOINSECTICIDES MARKET SIZE, BY CROP TYPE, 2020 VS. 2025 (USD MILLION)

FIGURE 29 BIOINSECTICIDES MARKET SIZE, BY TYPE, 2020 VS. 2025 (USD MILLION)

FIGURE 30 BIOINSECTICIDES MARKET SIZE, BY FORMULATION, 2020 VS. 2025 (USD MILLION)

FIGURE 31 CHILE TO BE THE MOST ATTRACTIVE MARKET FOR BIOINSECTICIDE MANUFACTURERS (2018–2025)

FIGURE 32 NORTH AMERICA: BIOINSECTICIDES MARKET SNAPSHOT

FIGURE 33 SOUTH AMERICA: BIOINSECTICIDES MARKET SNAPSHOT

FIGURE 34 KEY DEVELOPMENTS OF THE LEADING PLAYERS IN THE BIOINSECTICIDES MARKET, 2016–2020

FIGURE 35 BIOINSECTICIDES MARKET COMPANY RANKINGS, 2019

FIGURE 36 BIOINSECTICIDES MARKET: COMPETITIVE LEADERSHIP MAPPING, 2019

FIGURE 37 BASF SE: COMPANY SNAPSHOT

FIGURE 38 BASF SE: SWOT ANALYSIS

FIGURE 39 BAYER AG: COMPANY SNAPSHOT

FIGURE 40 BAYER AG: SWOT ANALYSIS

FIGURE 41 SYNGENTA AG: COMPANY SNAPSHOT

FIGURE 42 SYNGENTA AG: SWOT ANALYSIS

FIGURE 43 MARRONE BIO INNOVATIONS: COMPANY SNAPSHOT

FIGURE 44 MARRONE BIO INNOVATIONS: SWOT ANALYSIS

FIGURE 45 NOVOZYMES A/S: COMPANY SNAPSHOT

FIGURE 46 NOVOZYMES A/S: SWOT ANALYSIS

FIGURE 47 NUFARM: COMPANY SNAPSHOT

I would like to order

Product name: Bioinsecticides Market by Organism Type (Bacteria Thuringiensis, Beauveria Bassiana, and Metarhizium Anisopliae), Type (Microbials and Macrobiales), Mode of Application, Formulation, Crop Type, and Region - Global Trends & Forecast to 2025

Product link: <https://marketpublishers.com/r/BA8C8FB64B2EN.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/BA8C8FB64B2EN.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