

# **Global Biorational Pesticides Market Size study, by Product Type (Biorational Fungicides, Biorational Insecticides, Biorational Nematicides), by Formulation (Dry, Liquid), by Source (Botanical, Microbial, Non-Organic), by Mode of Application (Foliar Spray, Seed Treatment, Soil Treatment), by Crop (Cereals & Grains, Fruits & Vegetables, Oilseeds & Pulses) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Biorational Pesticides Market is valued at approximately USD 7.17 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 10.45% over the forecast period 2024-2032. Biorational pesticides, derived from natural or biological origins, represent an innovative approach to pest control that minimizes environmental impact. These substances, which include microbial pesticides, plant growth regulators, pheromones, and natural insecticides, are designed to target specific pests with minimal non-target consequences. The rising demand for residue-free organic crops, coupled with the expansion of the agriculture sector and increasing investments, is driving the growth of the biorational pesticides market. However, challenges such as low shelf life, limited availability, consumer awareness, and higher costs compared to conventional pesticides may hinder market growth. Nevertheless, advancements in biorational pesticide formulations and government initiatives are expected to create substantial growth prospects in the market.

Technological advancements have significantly improved DNA diagnostic platforms, with the introduction of various products that exploit naturally occurring compounds or organisms. The increasing adoption of these innovative solutions is driven by the

growing demand for environmentally friendly and targeted pest control methods. Market players are focusing on research and development to diversify their product portfolios, enhancing the efficacy and cost-effectiveness of biorational products.

Key regions considered for the global biorational pesticides market study include North America, Europe, Asia Pacific, Latin America, and Rest of the World. North America holds the largest market share due to stringent environmental regulations and a robust organic food industry. In Europe, the market is propelled by stringent regulations and a strong focus on organic farming. The Asia-Pacific region is expected to witness the fastest growth, driven by the increasing adoption of sustainable agriculture practices and government initiatives. Meanwhile, Latin America and the Middle East & Africa are emerging markets with significant growth potential.

Major market players included in this report are:

AgriLife (India) Private Limited

Andermatt Group AG

BASF SE

Bayer AG

Biobest Group NV

Bionema Limited

BioSafe Systems, LLC

Certis Biologicals by Mitsui & Co., Ltd.

Corteva, Inc.

Emery Oleochemicals LLC

The detailed segments and sub-segment of the market are explained below:

By Product Type:

Biorational Fungicides

Biorational Insecticides

Biorational Nematicides

By Formulation:

Dry

Liquid

By Source:

Botanical

Microbial

Non-Organic

By Mode of Application:

Foliar Spray

Seed Treatment

Soil Treatment

By Crop:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

**By Region:****North America**

U.S.

Canada

**Europe**

UK

Germany

France

Spain

Italy

ROE

**Asia Pacific**

China

India

Japan

Australia

South Korea

RoAPAC

## Latin America

Brazil

Mexico

RoLA

## Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

## Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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