

Biorationals Market Report by Source (Botanicals, Semiochemicals, and Others), Type (Pesticides, Insecticides, Fungicides, Nematicides, Herbicides, Plant Growth Regulators, and Others), Crop Type (Cereals and Grains, Fruits and Vegetables, and Others), Formulation (Liquid, Dry), Application (Foliar Spray, Soil Treatment, Trunk Injection, and Others), End User (Forestry, Agriculture, Public Health, Aquaculture, and Others), and Region 2025-2033

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Report description:

The global biorationals market size reached USD 5.1 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 8.9 Billion by 2033, exhibiting a growth rate (CAGR) of 6.24% during 2025-2033.

Biorationals are low environmental impact substances or products, such as botanicals, microbials, minerals, synthetics, biostimulants, and soil conditioners, which are derived from natural or biological origins. They are widely used in agriculture, public health, forest health, aquaculture, turf, structural pest control, and home and garden applications for enhancing plant physiology and managing crop stress and root growth. They are also utilized as an alternative control agent to pesticides and antimicrobials for maximizing productivity, quality, and sustainability in agricultural production systems, disease vector management systems, and industrial and residential settings.

Biorationals Market Trends:

The increasing shortage of food across the globe on account of the growing global population, altering climatic conditions, and the declining arable land area represents one of the key factors driving the demand for biorationals to minimize crop loss and

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enhance the overall crop yield. In addition, the rising awareness among individuals about the adverse effects of chemical pesticides on the food chain and environment is encouraging the adoption of biopesticides. Apart from this, government agencies of numerous countries are promoting the utilization of integrated pest management strategies, which include early detection of pests using selective products that provide control while preserving the ecological health of the farm and minimizing adverse effects on beneficial insects. This, in turn, is presenting lucrative opportunities to manufacturers, investors, and end users and contributing to the growth of the market. Besides this, the growing preferences for sustainable farming practices, increasing adoption of the green crop protection concept, and stringent regulations for lowering maximum residue limit (MRLs) are some of the other significant factors anticipated to influence the market positively in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global biorationals market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on source, type, crop type, formulation, application and end user.

Breakup by Source:

- Botanicals
- Semiochemicals
- Others

Breakup by Type:

- Pesticides
- Insecticides
- Fungicides
- Nematicides
- Herbicides
- Plant Growth Regulators
- Others

Breakup by Crop Type:

- Cereals and Grains
- Fruits and Vegetables
- Others

Breakup by Formulation:

- Liquid
- Dry

Breakup by Application:

- Foliar Spray
- Soil Treatment
- Trunk Injection
- Others

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Breakup by End User:

- Forestry
- Agriculture
- Public Health
- Aquaculture
- 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
- Others
- Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BASF SE, Bayer AG, Gowan Company LLC, Institute of Natural Organic Agriculture (INORA), Isagro S.p.A., Koppert B.V., Marrone Bio Innovations Inc., Rentokil Initial plc, Russell IPM Ltd., Sumitomo Chemical Co. Ltd., Summit Chemical Company and The Wonderful Company LLC.

Key Questions Answered in This Report

- 1.What was the size of the global biorationals market in 2024?
- 2.What is the expected growth rate of the global biorationals market during 2025-2033?
- 3.What are the key factors driving the global biorationals market?
- 4.What has been the impact of COVID-19 on the global biorationals market?

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5. What is the breakup of the global biorationals market based on the source?
6. What is the breakup of the global biorationals market based on the type?
7. What is the breakup of the global biorationals market based on crop type?
8. What are the key regions in the global biorationals market?
9. Who are the key players/companies in the global biorationals market?

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