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Humic-based Biostimulants Market: Current Analysis and Forecast (2025-2033)

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Abstracts

The Humic-based Biostimulants Market is witnessing a robust growth rate of 11.19% within the forecast period (2025- 2033F). The biostimulants market is driven by the increasing demand for sustainable agriculture, crop production, and soil health, resulting in constant growth in the humic-based market. Biostimulants based on humic are organic compounds obtained mainly from leonardite, peat, or composted materials and are a mixture of humic acid, fulvic acid, and potassium humate. These compounds are essential for enhancing the uptake of nutrients, promoting root growth, and increasing microbial activity in the rhizosphere, which in turn promotes plant growth despite stressful conditions. As farmers increasingly abandon the use of synthetic agrochemicals, humic-based biostimulants are being identified as crucial inputs that foster sustainable agricultural practices. These products have gained momentum due to the global trend in organic and regenerative agriculture. Their advantages are that they allow more nutrient efficiency, greater soil structure and moisture retention, and resistance to abiotic stress such as drought or salinity. The development of more formulations, compatibility with the fertigation systems, and combinations with precision agriculture tools of these biostimulants are making these more adaptable, cost-efficient, and effective in all crop varieties and geographies.

Based on product type, the humic-based biostimulants market is segmented into Humic Acid, Fulvic Acid, and Potassium Humate. In 2024, the Humic Acid segment dominated the market and is expected to maintain its lead through the forecast period. Products based on humic acid have also experienced enormous growth because of their high molecular weight and good chelating traits, and better results when used in enhancing soil structure and retention of nutrients. This is because it promotes microbial activity, increases root growth and nutrient absorption; therefore, it is most effective in various crops as well as soil types.

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Although the use of fulvic and potassium humate products is increasing in interest, humic acid is the most popular one, especially in broad-acre production systems and organic production systems. This has made it remain the preferred option due to its cost-effectiveness, empirical effects on crop productivity, and ability to be deployed using both the traditional and modernized application processes. Moreover, further proliferation in the use of sustainable farm methods, state-paid subsidies, and widening organic acreage across the globe further spurs the expansion of this division.

Based on form, the humic-based biostimulants market is segmented into Liquid, Water-Soluble Granules, and Water-Soluble Powders. In 2024, the liquid segment held the largest share and is expected to remain at the top for the next few years. Liquid formulations are also commonly used as they are portable, and they absorb faster in plants, with the ability to be channeled through the already existing irrigation and fertigation channels. This makes them very convenient in large row crop production, greenhouse farming, and use in precision farming. Liquid formulation is in a stable and uniform detention where performance can be largely constant under varying soil and environmental conditions. Besides, the increased application of drip and sprinkler irrigation systems in contemporary agriculture increases the need to use liquid biostimulants, initiating their delivery onto the root zone effectively. Since farmers are demanding more convenience in storage, mixing, and application of products, liquid humic biostimulants present an asset in terms of time efficiencies, flexibility, and affordability in the application, which places the liquid format as the format of choice worldwide.

Based on application, the humic-based biostimulants market is segmented into Soil Treatment, Seed Treatment, and Foliar Spray. In 2024, the soil treatment segment commanded the largest market share and is forecast to retain this lead in the forecast period. Humic-based biostimulants are important in the improvement of soil fertility through better soil structure, higher microbial activity, better retention, and availability of nutrients. With the changing agricultural practices based on sustainability as well as regenerative farming, much weight has been placed on the restoration of soil health, and, consequently, the use of humic products to treat soils has been on the rise. Moreover, the groundwater rising fears of soil degradation and loss of nutrition and lowered productivity in the traditional farming systems have quickened the adoption of soil-applied biostimulants. Their flexibility in the use of crop types and adaptability to organic and conventional farming make them widely used. As more people in the world

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take seriously the importance of soil as a basis of agriculture, we would find that this segment will continue to be central to considerations by farmers, agribusinesses, and policymakers.

For a better understanding of the market of the humic-based biostimulants market, the market is analyzed based on its worldwide presence in countries such as North America (The US, Canada, and Rest of North America), Europe (Germany, The UK, France, Italy, Spain, Rest of Europe), Asia-Pacific (China, Japan, India, Rest of Asia-Pacific), Rest of World. North America leads the market presently in humic-based biostimulants, and it is also likely to dominate the market in the forecast period. This can be largely explained by the developed farming methods, substantial amounts of organic agriculture, and widely used sustainable inputs by large-scale farmers in the region. The existence of large biostimulant producers and the growing interest in studying regenerative agriculture and soil health also promote regional development. Also, North America is experiencing an upsurge in government support and regulatory transparency of organic and biobased ancillaries, which enhances adoption. The emphasis on the optimization of crop productivity and the minimization of the effects on the environment in the region has guaranteed the ever-increasing demand for products using humic material. Moreover, the wider adoption of precision farming technology and increased knowledge of the farmers regarding soil degradation would also tend to boost the adoption of humic-based biostimulants in the future years.

Some of the major players operating in the market include Syngenta, Biolchim SPA, FMC Corporation, Haifa Negev technologies LTD, UPL, Bayer AG, Sikko Industries Ltd., Humintech, PROMISOL S.A., and Borregaard AS.

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Contents

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6 GLOBAL HUMIC-BASED BIOSTIMULANTS MARKET REVENUE (USD MN), 2023-2033F

7 MARKET INSIGHTS BY PRODUCT TYPE

7.1. Humic Acid
7.2. Fulvic Acid
7.3. Potassium Humate

8 MARKET INSIGHTS BY FORM

8.1. Liquid
8.2. Water-Soluble Granules
8.3. Water-Soluble Powders

9 MARKET INSIGHTS BY APPLICATION

9.1. Soil Treatment
9.2. Seed Treatment
9.3. Foliar Spray

10 MARKET INSIGHTS BY REGION

10.1. North America
  10.1.1. The US
  10.1.2. Canada
  10.1.3. Rest of North America
10.2. Europe
  10.2.1. Germany
  10.2.2. The UK
  10.2.3. France
  10.2.4. Italy
  10.2.5. Spain
  10.2.6. Rest of Europe
10.3. Asia-Pacific
  10.3.1. China
  10.3.2. Japan
  10.3.3. India

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