

Turf Grass Biocontrol Agents Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Agriculture & Agribusiness (Agriculture & Agribusiness)
> ****Source:**** <https://www.mordorintelligence.com/industry-reports/turf-grass-biocontrol-agents-market>
> ****Scraped Date:**** 2026-09-17

Executive Market Summary

Market Metric	Details
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Base Market Size	USD 9.29 billion
Projected Forecast (2031)	USD 9.29 billion
Growth Rate (CAGR)	6.80 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

![Major players in Turf Grass Biocontrol Agents industry](images/chart_2.png)

![Turf Grass Biocontrol Agents Market Size](images/chart_3.png)

![Turf Grass Biocontrol Agents Market Share by Turf Grass Biocontrol Agents Market, 2025](images/chart_4.png)

![Turf Grass Biocontrol Agents Market Share by Application, 2025](images/chart_5.png)

![Turf Grass Biocontrol Agents Market Growth Rate by Region](images/chart_6.png)

![Turf Grass Biocontrol Agents Market Concentration](images/chart_7.png)

![Icon](images/chart_8.png)

![footer background image](images/chart_10.png)

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![ESOMAR](images/chart_17.png)

![GPTW](images/chart_19.png)

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview

Study Period	2021 - 2031
Market Size (2026)	USD 9.29 Billion
Market Size (2031)	USD 12.91 Billion
Growth Rate (2026 - 2031)	6.80 %
Fastest Growing Market	Asia-Pacific
Largest Market	North America

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Market Overview

Turf Grass Biocontrol Agents Market Analysis by Mordor IntelligenceThe turf grass biocontrol agents market size was valued at USD 8.70 billion in 2025 and estimated to grow from USD 9.29 billion in 2026 to reach USD 12.91 billion by 2031, at a CAGR of 6.80% during the forecast period (2026-2031). The turfgrass biocontrol agents market is growing as managed turf operators are moving away from synthetic fungicide programs and toward preventive biological protocols that meet tighter residue and input rules. In the United States, the Environmental Protection Agency is streamlining review processes for several low-risk biopesticides, which supports a faster path for new biological actives in the turfgrass biocontrol agents market[1]Source: U.S. Environmental Protection Agency, “EPA Proposes Streamlined Registration Review Process for Several Low Risk Biopesticides,” U.S. Environmental Protection Agency, epa.gov. In Europe, Directive 2009/128/CE is reinforcing the shift by setting pesticide use and risk-reduction targets that favor biological alternatives on professional turf surfaces. The turfgrass biocontrol agents market is also benefiting from higher disease pressure linked to warmer nights, longer leaf-wet periods, and earlier seasonal activity of key turf pathogens, which make preventive use more practical for golf courses and sports fields.

Key Report Takeaways

- * By type of biocontrol agent, microbial biocontrol agents held the largest segment, 52.6% of the turf grass biocontrol agents market share in 2025, and the same segment is the fastest-growing segment, projected to grow at an 11.6% CAGR through 2026 to 2031.
- * By application, landscaping and residential lawns hold the largest segment, accounted for 58.4% of the turf grass biocontrol agents market size in 2025, while golf courses are the fastest-growing, forecast to expand at a 9.4% CAGR through 2026 to 2031.
- * By formulation, liquid formulations lead the market, accounted for 57.3% of the turf grass biocontrol agents market share in 2025, while encapsulated and suspension formulations identified as the fastest-growing, forecast to expand at a CAGR of 11.0% through 2026 to 2031.
- * By geography, North America held the largest region, 34.7% of the turf grass biocontrol agents market size in 2025, while Asia-Pacific recorded the fastest-growing region, projected CAGR at 8.3% through 2026 to 2031.

Key Market Trends

Global Turf Grass Biocontrol Agents Market Trends and InsightsDrivers Impact Analysis*

Driver	(~) % Impact on CAGR Forecast	Geographic Relevance	Impact Timeline
Rising regulatory preference for low-residue turf inputs	+1.8%	Global, highest intensity in Europe and North America	Medium term (2-4 years)
Replacement cycle from synthetic turf fungicides to biological programs	+1.5%	Global, strongest adoption in North America and Western Europe	Medium term (2-4 years)
Growth in golf course and sports field stewardship budgets	+1.2%	North America, Europe, Asia-Pacific core markets	Long term (≥ 4 years)
Rising disease pressure from climate volatility and heat stress	+1.4%	Global, particularly acute in Europe and Asia-Pacific	Short term (≤ 2 years)

Microbial strain innovation, shelf-life, and formulation advances | +0.9% | Global, with early adoption gains in North America | Long term (≥ 4 years) | Precision turf monitoring improves biological product timing | +0.6% | North America, Europe, Asia-Pacific core markets | Medium term (2-4 years) | Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The turf grass biocontrol agents market is moderately concentrated, with competition split between diversified crop science companies and specialist biological firms. Syngenta Group, Bayer AG, BASF SE, UPL Limited, and Corteva Agriscience benefit from broad channel access and established turf relationships. Koppert, Certis Biologicals, BioWorks, Valent Biosciences, and BioSafe Systems bring more specialized biological depth and a stronger focus on formulation and application fit. This structure gives the turf grass biocontrol agents market a mix of scale, product reach, and targeted innovation. It also means that market leadership depends as much on distribution and field confidence as it does on the active ingredient itself.

Large companies are using acquisitions and partnerships to strengthen their positions in the turfgrass biocontrol agents market. BASF completed the acquisition of AgBiTech in March 2026, expanding its biological crop protection footprint and reinforcing its interest in markets such as Brazil. These moves show that scale players and specialist firms both see room to deepen biological turf offerings through deals rather than only through internal development.

White-space opportunities remain open across warm-climate formulations, institutional grounds, and public-use turf settings within the turf grass biocontrol agents market. Smaller participants such as Bionema, Corebiologic, TeraGanix, and BioSafe Systems can still build share by offering turf-specific support and faster field feedback loops. Product registrations also matter because they give firms a usable bridge into broader integrated pest management programs, as seen in BioWorks' 2025 EPA registration for PRINCIPLE WP and Pro Farm Group's 2025 EPA registration for RinoTec Technology. Overall, the turf grass biocontrol agents market is competitive enough to stay innovative, but concentrated enough for scale, portfolio depth, and label coverage to matter.

Turf Grass Biocontrol Agents Industry Leaders* Syngenta Group

* Bayer AG

* BASF SE

* UPL Limited

* Corteva Agriscience

* *Disclaimer: Major Players sorted in no particular order

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Component 3 Scope Of The Report Bottom

Global Turf Grass Biocontrol Agents Market Report ScopeBiocontrol agents in turf grass are living organisms, including bacteria, fungi, insects, or nematodes, utilized to suppress, control, or prevent pests, diseases, and weeds in turf grass ecosystems. These agents operate through natural biological processes instead of relying on chemical pesticides. Turf grass biocontrol agents market report is segmented by type of biocontrol agent (microbial, macrobiological, biochemical, and plant extract), application (golf courses, sports fields, landscaping, sod farms, and public parks), formulation (liquid, granular, powder, and encapsulate

d and suspension), and geography (North America, South America, Europe, Asia-Pacific, and Middle East, and Africa). The report offers forecasts in terms of Value (USD).

By Type of Biocontrol Agent
Microbial Biocontrol Agents |
Macrobiological Control Agents |
Biochemical Biocontrol Agents |
Plant Extract and Natural Compound Biocontrols |

Segmentation Accordion Item

By Geography
North America | United States |
| Rest of North America |
South America | Brazil |
| Rest of South America |
Europe | Germany |
| United Kingdom |
| France |
| Russia |
| Rest of Europe |
Asia-Pacific | China |
| India |
| Japan |
| Australia |
| Rest of Asia-Pacific |
Middle East and Africa | Middle East | Saudi Arabia |
	United Arab Emirates
	Turkey
	Rest of Middle East
Africa	South Africa
	Nigeria
	Rest of Africa

Frequently Asked Questions

What is the 2031 outlook for turf grass biocontrol agents?

The market is forecast to reach USD 12.91 billion by 2031 from USD 9.29 billion in 2026, growing at a 6.8% CAGR.

Which product type leads demand in turf grass biocontrol agents?

Microbial biocontrol agents led with 52.6% share in 2025 and are also the fastest-growing type at an 11.6% CAGR through 2031.

Why are golf courses adopting more biological turf protection solutions?

Golf courses need consistent playing quality, lower residue programs, and better disease prevention, which is why they are projected to grow at a 9.4% CAGR through 2031.

Which region is growing fastest for turf grass biocontrol agents?

Asia-Pacific is the fastest-growing region, with an 8.3% CAGR projected through 2031.