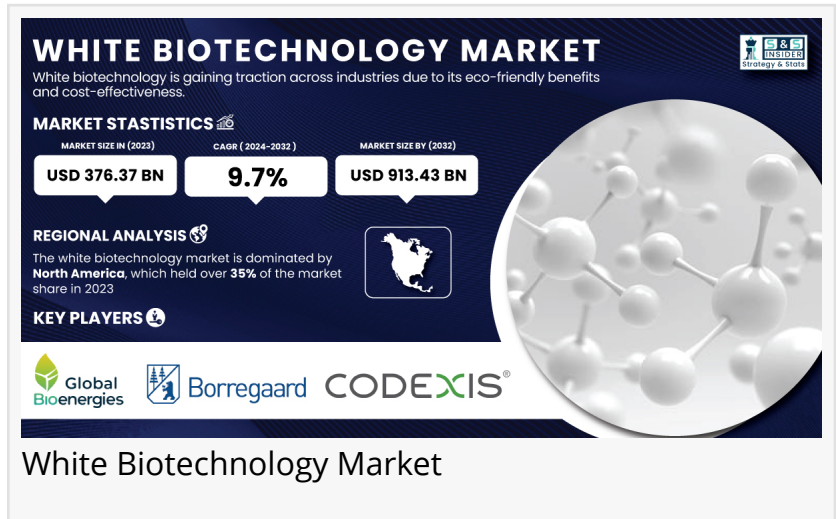


# White Biotechnology Market to Surpass USD 913.43 Billion by 2032, Revolutionizing Sustainable Solutions Worldwide

*Driven by Growing Demand for Eco-Friendly Products, White Biotechnology Leads the Transition Toward Sustainable Industrial Practices*

AUSTIN, TX, UNITED STATES, January 8, 2025 /EINPresswire.com/ -- According to SNS Insider, The [White Biotechnology Market](#) size was estimated at USD 376.37 billion in 2023 and is expected to reach USD 913.43 billion by 2032 at a CAGR of 9.7% during the forecast period of 2024-2032.



## White Biotechnology Market to Revolutionize Industries, Driving the Future of Sustainability

White biotechnology is poised to revolutionize industries with its eco-friendly and cost-effective benefits. It provides sustainable solutions by using novel raw materials, efficient production techniques, and minimizing waste. The growing global demand for green chemicals, particularly in North America and Europe, is shifting from traditional chemical processes toward white biotechnology. This approach is gathering momentum in the consumer goods and automotive sectors because companies are trying to meet sustainability requirements and also come in line with consumer demand for eco-friendly products. White biotechnology also conserves energy, reduces dependence on volatile oil/crop prices, and becomes increasingly economically viable as time passes. As industries attempt to balance profit and sustainability, white biotechnology will see an increasing demand during the next decade.

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Key White Biotechnology Market Players:

- Global Bioenergies

- Borregaard
- Codexis
- Deinove
- Solazyme
- Evolva
- Fermentalg
- Gevo
- Amyris
- Metabolic Explorer
- BioAmber

## Market Analysis

The growth of the white biotechnology market is driven by the increasing need for sustainable and eco-friendly approaches. Environmental impact has become a pressing global issue across many industries, which is where white biotechnology presents itself as a ground-breaking solution to create chemicals, fuels, and materials through biological processes. Bio-based products, including bioplastics and biofuels, are gaining more market space, they do mitigate carbon emissions and reliance on petrochemicals. Industries are taking an interest in innovations in white biotechnology due to government regulations and increasing consumer demand for green products. Microorganisms have also been used in the production of commercially relevant molecules for increased manufacturing efficiency, reduction of pollutant waste by-products, and production at a low cost. All these aspirations are in line with global sustainability goals.

## Key Market Segments

### By Product

- Biofuels
- Biomaterials
- Biochemicals
- Industrial enzymes

### By Application

- Bioenergy
- Food & feed additives
- Pharmaceutical ingredients
- Personal care & household products
- Others

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## Segment Analysis

## By Product

Biofuels segment dominated the market with a market share of 41% in 2023. Bioethanol and biodiesel are two key types of biofuels used in the automotive sector for lowering emissions and improving the efficiency of vehicles, particularly in North America and Europe. Biochemicals are experiencing unprecedented growth due to their extensive use in personal care, food, textiles, and coatings. Beyond this, the trend toward bio-economy initiatives is driving the demand for biochemicals because industries are looking forward to a fossil fuel-independent future.

## By Application

The pharmaceutical ingredients segment is expected the fastest CAGR of 14% during the forecast period. Enzymes and biopharmaceuticals produced using white biotechnology are pivotal in developing complex chiral compounds and active pharmaceutical ingredients (APIs). Meanwhile, bioenergy's largest segment is witnessing substantial investments in clean energy sources by developed economies to reduce reliance on oil imports and mitigate environmental impact.

## Regional Analysis

North America dominated the market and, accounted for 42% in 2023. Due to huge R&D investments and high demand on the part of consumers for greener chemicals as well as product lines. Its closest competitor comes from Europe whose chemical industry acts as a hotbed for a large number of biochemicals emanating from the renewable feedstocks. Nowadays, enzymes have found a prolific place in Europe and the United States, in which biomass used to produce biofuels, biopolymers, and biochemicals offsets dependency on petroleum.

Asia Pacific is expected the fastest CAGR during the forecast period. countries like China, India, and Japan are rapidly adopting white biotechnology solutions. This is because such nations are increasingly investing in sustainable industrial practices for the purpose of achieving global environmental goals and satisfying increasing consumer demands for eco-friendly products.

## Recent Developments

- March 2024: Novozymes announced a partnership with a prominent textile company to develop enzyme-based solutions for sustainable textile dyeing. This collaboration underscores the potential of white biotechnology to minimize environmental impact in industrial processes.
- January 2024: LanzaTech secured significant funding to scale up the production of sustainable ethanol using captured carbon emissions. This milestone highlights the role of white biotechnology in addressing climate change through innovative carbon capture and utilization technologies.

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Akash Anand

SNS Insider Pvt. Ltd

415-230-0044

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