

White Biotechnology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

<https://marketpublishers.com/r/W0ABB1D2257EEN.html>

Date: July 2022

Pages: 143

Price: US\$ 2,499.00 (Single User License)

ID: W0ABB1D2257EEN

Abstracts

The global white biotechnology market reached a value of US\$ 257.7 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 479.9 Billion by 2027, exhibiting a CAGR of 11.5% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

White biotechnology, or industrial biotechnology, involves the use of biocatalysts, such as enzymes and microorganisms, for developing degradable and bio-based products by implementing the scientific principles of biotechnology in industrial settings. It is commonly used to produce various essential bioactive compounds, secondary metabolites, pigments, organic substances, such as citric acid, acetic acid, glycerin and acetone, and antibiotics, such as penicillin, streptomycin and mitomycin. It is also used for the manufacturing of metabolites, biodegradable plastics, biocontrol agents, bio-based fuel, sustainable energy and waste treatment. As a result, white biotechnology finds extensive applications across various industries, including bioenergy, textile, construction, chemical, food and beverage and pharmaceutical.

White Biotechnology Market Trends:

The increasing demand for green chemicals and biofuels, such as bioethanol and biodiesel, across the globe, is one of the key factors driving the growth of the market. With the rising environmental consciousness among the masses, consumers are increasingly demanding premium green renewable products for personal and industrial consumption, especially in the developed economies. Moreover, the utilization of bacteria and microalgae for the biosynthesis of nanomaterials and structures, including

bacterial nanocellulose, exopolysaccharides and nanowires, is providing a thrust to the market growth. As the coronavirus disease (COVID-19) continues to spread, there has been a significant increase in the demand for natural alcohol for manufacturing skin-friendly hand sanitizers across the globe. Additionally, various innovations, such as the development of bioinspired calcium phosphate cement to glue tissues to metallic and polymeric biomaterials, are also contributing to the market growth. Other factors, including extensive research and development (R&D) activities in the field of biotechnology, along with the implementation of favorable government policies, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global white biotechnology market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on product and application.

Breakup by Product:

- Biofuels
- Biochemicals
- Biopolymers

Breakup by Application:

- Bioenergy
- Food and Feed Additives
- Pharmaceutical Ingredients
- Personal Care and Household Products
- 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 Archer Daniels Midland Company, BASF SE, Cargill Inc., DuPont de Nemours Inc., Fujifilm Holdings Corporation, General Electric Company, Henkel AG & Co. KGaA, Kaneka Corporation, Koninklijke DSM N.V., Lonza Group AG, Mitsubishi Corporation and Novozymes A/S.

Key Questions Answered in This Report:

How has the global white biotechnology market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global white biotechnology market?
What are the key regional markets?
What is the breakup of the market based on the product?
What is the breakup of the market based on the application?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global white biotechnology market and who are the key players?
What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL WHITE BIOTECHNOLOGY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 Biofuels
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Biochemicals
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Biopolymers

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Bioenergy

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Food and Feed Additives

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Pharmaceutical Ingredients

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Personal Care and Household Products

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

- 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 SWOT ANALYSIS

9.1 Overview

9.2 Strengths

9.3 Weaknesses

9.4 Opportunities

9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Archer Daniels Midland Company

13.3.1.1 Company Overview

- 13.3.1.2 Product Portfolio
- 13.3.1.3 Financials
- 13.3.1.4 SWOT Analysis
- 13.3.2 BASF SE
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
- 13.3.3 Cargill Inc.
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 SWOT Analysis
- 13.3.4 DuPont de Nemours Inc.
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
- 13.3.5 Fujifilm Holdings Corporation
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis
- 13.3.6 General Electric Company
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 Financials
- 13.3.7 Henkel AG & Co. KGaA
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 Kaneka Corporation
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9 Koninklijke DSM N.V.
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio

- 13.3.9.3 Financials
- 13.3.9.4 SWOT Analysis
- 13.3.10 Lonza Group AG
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
 - 13.3.10.4 SWOT Analysis
- 13.3.11 Mitsubishi Corporation
 - 13.3.11.1 Company Overview
 - 13.3.11.2 Product Portfolio
 - 13.3.11.3 Financials
 - 13.3.11.4 SWOT Analysis
- 13.3.12 Novozymes A/S
 - 13.3.12.1 Company Overview
 - 13.3.12.2 Product Portfolio
 - 13.3.12.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: White Biotechnology Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: White Biotechnology Market Forecast: Breakup by Product (in Million US\$), 2022-2027

Table 3: Global: White Biotechnology Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 4: Global: White Biotechnology Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 5: Global: White Biotechnology Market: Competitive Structure

Table 6: Global: White Biotechnology Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: White Biotechnology Market: Major Drivers and Challenges
- Figure 2: Global: White Biotechnology Market: Sales Value (in Billion US\$), 2016-2021
- Figure 3: Global: White Biotechnology Market Forecast: Sales Value (in Billion US\$), 2022-2027
- Figure 4: Global: White Biotechnology Market: Breakup by Product (in %), 2021
- Figure 5: Global: White Biotechnology Market: Breakup by Application (in %), 2021
- Figure 6: Global: White Biotechnology Market: Breakup by Region (in %), 2021
- Figure 7: Global: White Biotechnology (Biofuels) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 8: Global: White Biotechnology (Biofuels) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 9: Global: White Biotechnology (Biochemicals) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 10: Global: White Biotechnology (Biochemicals) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 11: Global: White Biotechnology (Biopolymers) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 12: Global: White Biotechnology (Biopolymers) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 13: Global: White Biotechnology (Bioenergy) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 14: Global: White Biotechnology (Bioenergy) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 15: Global: White Biotechnology (Food and Feed Additives) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 16: Global: White Biotechnology (Food and Feed Additives) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 17: Global: White Biotechnology (Pharmaceutical Ingredients) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 18: Global: White Biotechnology (Pharmaceutical Ingredients) Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 19: Global: White Biotechnology (Personal Care and Household Products) Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 20: Global: White Biotechnology (Personal Care and Household Products) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: White Biotechnology (Other Applications) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: White Biotechnology (Other Applications) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: North America: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: North America: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: United States: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: United States: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Canada: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Canada: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Asia-Pacific: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Asia-Pacific: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: China: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: China: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Japan: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Japan: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: India: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: India: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: South Korea: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: South Korea: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Australia: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Australia: White Biotechnology Market Forecast: Sales Value (in Million

US\$), 2022-2027

Figure 41: Indonesia: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: Indonesia: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: Others: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Others: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Europe: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Europe: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Germany: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Germany: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: France: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: France: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: United Kingdom: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: United Kingdom: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Italy: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Italy: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Spain: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Spain: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Russia: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Russia: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Others: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Others: White Biotechnology Market Forecast: Sales Value (in Million US\$),

2022-2027

Figure 61: Latin America: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Latin America: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Brazil: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Brazil: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Mexico: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Mexico: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Others: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Others: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Middle East and Africa: White Biotechnology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Middle East and Africa: White Biotechnology Market: Breakup by Country (in %), 2021

Figure 71: Middle East and Africa: White Biotechnology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 72: Global: White Biotechnology Industry: SWOT Analysis

Figure 73: Global: White Biotechnology Industry: Value Chain Analysis

Figure 74: Global: White Biotechnology Industry: Porter's Five Forces Analysis

I would like to order

Product name: White Biotechnology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

Product link: <https://marketpublishers.com/r/W0ABB1D2257EEN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/W0ABB1D2257EEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

