

Microbial Products: Technologies, Applications and Global Markets

Market Research Report | 2023-05-10 | 201 pages | BCC Research

AVAILABLE LICENSES:

- Single User License \$5500.00
- 2-5 Users License \$6600.00
- Site License \$7920.00
- Enterprise License \$9504.00

Report description:

Description

Report Scope:

This report addresses the global market for microbes and microbial products used in commercial applications from 2021 through 2027. This includes agricultural, healthcare, manufacturing, energy, and environmental applications.

Viruses are sometimes classified as microbes, but they are nonliving, and thus they are excluded from this report.

Major elements cited in this study include -

- Summary.
- Definitions.
- Description of microbes.
- Microbe end-uses and applications.
- Regulation.
- Recent technological developments.
- Market size and segmentation from 2021 to 2027.
- Company profiles.
- Key patents.

Report Includes:

- 27 tables
- An overview of the global market and technologies for microbial products with special focus on their applications

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Estimation of the market size and analyses of global market trends, with data from 2019-2021, estimates for 2022 and projections of compound annual growth rates (CAGRs) through 2027
- Highlights of the current and future market potential and quantification of microbial products market based on type, application, and region
- Detailed descriptions of probiotics, their types, and recent developments and information on microbial pesticides and biofertilizers and their potential uses
- Analysis of underlying technological, environmental, legal/regulatory, and political trends that may influence the size and nature of the market
- Market share analysis of the key companies of the industry and coverage of their proprietary technologies, strategic alliances, and other key market strategies
- Comprehensive company profiles of the leading players of the industry, including Seres Therapeutics, Enterome Biosciences, Ferring Pharmaceuticals, Evelo Biosciences, Finch Therapeutics, Microbiome Therapeutics, and Pylum Biosciences

Executive Summary

Summary:

A microbial product refers to any substance produced by microorganisms, such as bacteria, fungi, and algae, that has commercial value. These products have become increasingly popular in various industries due to their eco-friendly nature and ability to provide sustainable solutions.

One of the key drivers of the microbial product market is the increasing demand for sustainable and ecofriendly solutions in various industries, such as agriculture, healthcare, and food and beverage. Microbial products are also used in environmental remediation and biofuels, making them an attractive option for companies looking to reduce their carbon footprint.

Some examples of microbial products in the market include probiotics, enzymes, biopesticides and biofertilizers. Probiotics, for instance, are used in the food and beverage industry to promote gut health and improve digestion. Biopesticides are used in agriculture to control pests and diseases while reducing the use of harmful chemicals. Biofertilizers, on the other hand, enhance plant growth and productivity by providing essential nutrients to the soil.

Overall, the microbial product market is expected to continue to grow in the coming years as more industries adopt sustainable and eco-friendly practices. As the demand for these products increases, so will the research and development of new and innovative microbial products, making this a fascinating and dynamic field to watch.

The total global market for microbes and microbial products was worth \$REDACTED billion in 2021. The 2022 market is projected to exceed \$REDACTED billion, and the 2027 market is expected to approach \$REDACTED billion.

Table of Contents:

Table of Contents

Chapter 1 Introduction

1.1 What's New in This Report?

1.2 Study Goals and Objectives

1.3 Reasons for Doing This Study

1.4 Scope of Report

1.5 Information Sources

1.6 Methodology

1.7 Geographic Breakdown

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 1.8 Analyst's Credentials
- 1.9 BCC Custom Research
- 1.10 Related BCC Research Reports
- Chapter 2 Summary and Highlights
- Chapter 3 Market and Technology Background
- 3.1 General Description of Microbes
 - 3.1.1 Definitions
 - 3.1.2 Properties
 - 3.1.3 Occurrence and Production
 - 3.1.4 History
- 3.2 End Uses and Applications
 - 3.2.1 Agriculture
 - 3.2.2 Healthcare
 - 3.2.3 Manufacturing
 - 3.2.4 Energy
 - 3.2.5 Environment
- 3.3 Market Size and Segmentation
 - 3.3.1 Market Size and Growth
 - 3.3.2 Market by End Use
- Chapter 4 Market for Agricultural Microbes and Microbial Products
 - 4.1 Summary
 - 4.2 Microbial Pesticides
 - 4.2.1 Bacteria
 - 4.2.2 Fungi
 - 4.2.3 Protozoa
 - 4.2.4 Nematodes
 - 4.2.5 Markets
 - 4.3 Microbial Fertilizers
 - 4.3.1 Nitrogen Biofertilizers
 - 4.3.2 Phosphorus Biofertilizers
 - 4.3.3 Compost Treatment
 - 4.3.4 Markets
 - 4.4 Animal Feed Additives
 - 4.4.1 Microbial Animal Feed Additive Types
 - 4.4.2 Markets
- Chapter 5 Healthcare Market for Microbes and Microbial Products
 - 5.1 Summary
 - 5.2 Microbial Biopharmaceuticals
 - 5.2.1 Technology
 - 5.2.2 Markets
 - 5.3 Therapeutics
 - 5.3.1 Microbiome: Human and Non-human
 - 5.3.2 Probiotics
- Chapter 6 Manufacturing Market for Microbes and Microbial Products
 - 6.1 Summary
 - 6.2 Food Processing
 - 6.2.1 Technologies

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.3 Enzymes
 - 6.3.1 Technologies
 - 6.3.2 Applications
- 6.4 Commodity and Specialty Chemicals
 - 6.4.1 Technologies
- 6.5 Biopolymers
 - 6.5.1 Technologies
 - 6.5.2 Applications
 - 6.5.3 Markets
- Chapter 7 Energy Market for Microbes and Microbial Products
 - 7.1 Summary
 - 7.2 Biofuels
 - 7.2.1 Technology
 - 7.2.2 Applications
 - 7.3 Microbially Enhanced Oil Recovery
 - 7.3.1 Technology
 - 7.3.2 Applications
 - 7.4 Microbial Fuel Cells
 - 7.4.1 Technologies
 - 7.4.2 Applications
 - 7.5 Hydrogen Production
 - 7.5.1 Technologies
- Chapter 8 Environmental Market for Microbes and Microbial Products
 - 8.1 Summary
 - 8.2 Environmental Monitoring
 - 8.2.1 Technologies
 - 8.2.2 Applications
 - 8.3 Bioremediation
 - 8.3.1 Technologies
 - 8.4 Recycling
 - 8.4.1 Technologies
 - 8.5 Oil Spill and Residue Cleanup
 - 8.5.1 Technologies
 - 8.5.2 Applications
 - 8.6 Wastewater and Sewage Treatment
 - 8.6.1 Technologies
 - 8.6.2 Applications
- Chapter 9 Regulation
 - 9.1 U.S.
 - 9.1.1 Department of Agriculture
 - 9.1.2 Environmental Protection Agency
 - 9.1.3 Food and Drug Administration
 - 9.1.4 State-Level Regulations
 - 9.2 European Union
 - 9.2.1 Directive 98/81/EC on the Contained Use of Genetically Modified Microorganisms
 - 9.2.2 Directive 2001/18/EC on the Deliberate Release into the Environment of GMOs
 - 9.2.3 Regulation (EC) No. 1107/2009 on the Placing of Plant Protection Products on the Market

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

9.2.4 Regulation (EC) No 726/2004 on Procedures for the Authorization and Supervision of Medicinal Products for Human and Veterinary Use

9.2.5 Regulation 2015/2283 on Microorganisms Intentionally Added to Food

9.3 Japan

9.3.1 Food Sanitation Law

9.3.2 Feed Safety Law

9.4 Other Countries

9.4.1 Brazil

9.4.2 China

9.4.3 India

9.4.4 Russia

9.4.5 African Countries

Chapter 10 Emerging/ Upcoming Technologies

10.1 Synthetic Biology

10.2 CRISPR-Cas Technology

10.3 Metabolic Engineering

10.4 High-throughput Screening

10.5 Nanoparticle Technology

10.6 Microfluidics

10.7 Omics Technologies

Chapter 11 Patent Analysis

Chapter 12 Competitive Landscape

12.1 Overview

12.1.1 Top 5 Companies

12.1.2 Global Company Ranking

Chapter 13 Company Profiles

13.1 Agricultural Applications

13.1.1 Biopesticides

13.1.2 Biofertilizers

13.2 Animal Feed Additives

EARTHRISE NUTRITIONALS LLC

METABOLIC EXPLORER S.A.

TAIWAN CHLORELLA MANUFACTURING CO LTD.

13.3 Healthcare Applications

13.3.1 Microbial Biopharmaceuticals

13.3.2 Probiotics

13.4 Manufacturing Applications

13.4.1 Food Processing

13.4.2 Industrial Enzymes

13.4.3 Bulk Chemicals

13.4.4 Microbial Bioplastics

13.5 Energy Applications

13.5.1 Biofuels

13.5.2 Microbial-enhanced Oil Recovery

13.5.3 Hydrogen Production

13.5.4 Microbial Fuel Cells

13.6 Environmental Applications

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 13.6.1 Microbial Assays
- 13.6.2 Oil Eating Microbes
- 13.6.3 Wastewater/Sewage Treatment

Microbial Products: Technologies, Applications and Global Markets

Market Research Report | 2023-05-10 | 201 pages | BCC Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$5500.00
	2-5 Users License	\$6600.00
	Site License	\$7920.00
	Enterprise License	\$9504.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-04"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com