

Global Microbial Fermentation Technology Market Report and Forecast 2024-2032

Market Report | 2023-09-29 | 140 pages | EMR Inc.

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Report description:

Global Microbial Fermentation Technology Market Report and Forecast 2024-2032

Global Microbial Fermentation Technology Market Outlook

The global microbial fermentation technology market was valued at USD 32.4 billion in 2023, driven by the increased adoption of sustainable manufacturing practices across the globe. The market size is anticipated to grow at a CAGR of 5.5% during the forecast period of 2024-2032 to achieve a value of USD 52.6 billion by 2032.

Microbial Fermentation Technology: Introduction

Microbial fermentation technology is a process that utilizes microorganisms to produce various products through the controlled cultivation and metabolic activities of microorganisms. It is a well-established and widely used technology in industries such as food and beverage, pharmaceuticals, agriculture, and biofuels. In microbial fermentation, microorganisms, such as bacteria, yeasts, or fungi, are grown in a nutrient-rich environment under controlled conditions. These microorganisms metabolize the nutrients and convert them into desired products through biochemical reactions. The fermentation process can be aerobic (requiring oxygen) or anaerobic (occurring in the absence of oxygen), depending on the specific microorganism and product being produced.

Microbial fermentation technology plays a crucial role in the production of a wide range of valuable products. Its versatility, cost-effectiveness, and potential for sustainable manufacturing make it a key area of interest in biotechnology and industrial production processes.

Key Trends in the Global Microbial Fermentation Technology Market

Key trends in the microbial fermentation technology market include:

- Growing Demand for Bio-based Products: There is an increasing demand for bio-based products in various industries, including pharmaceuticals, food and beverages, agriculture, and chemicals. Microbial fermentation technology offers a sustainable and environmentally friendly approach to produce these products, driving the market growth.

- Expansion of Industrial Biotechnology: Industrial biotechnology is experiencing significant growth, with microbial fermentation playing a central role. Advances in genetic engineering, metabolic engineering, and synthetic biology have expanded the possibilities of microbial fermentation, enabling the production of a wide range of high-value products.

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- Focus on Sustainable and Green Processes: With the rising awareness of environmental sustainability, there is a growing emphasis on green processes in manufacturing. Microbial fermentation technology aligns with this trend by utilizing renewable resources, reducing energy consumption, and minimizing waste generation compared to traditional chemical synthesis methods.
- Rise of Precision Fermentation: Precision fermentation involves the use of precision biotechnology tools, such as genetic engineering and synthetic biology, to optimize microbial strains for specific product synthesis. This approach enables the production of complex molecules, including pharmaceuticals, flavors, fragrances, and specialty chemicals, with improved yields and quality.

Global Microbial Fermentation Technology Market Segmentations

The market can be categorised into product type, end user, and region.

Market Breakup by Product Type

- Medical Products
 - Antibiotics
 - Probiotics
 - Monoclonal Antibodies
 - Recombinant Proteins
 - Others
- Industrial Products
 - Alcohol Beverages
 - Food and Feed Products
 - Others

Market Breakup by End user

- Bio-Pharmaceutical Companies
- Contract Research Organizations
- CMOs and CDMOs
- Academics and Research Institutes
- Food and Feed Institutes
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Microbial Fermentation Technology Market Overview

The microbial fermentation technology market has been experiencing significant growth in recent years. Factors driving this growth include the increasing demand for sustainable and eco-friendly production processes, the rise of bio-based products, advancements in genetic engineering and synthetic biology, and the expanding application areas of microbial fermentation. Ongoing technological advancements are driving the microbial fermentation technology market. This includes the integration of automation, robotics, artificial intelligence, and data analytics to optimize fermentation processes, monitor real-time data, and improve process control. These advancements enhance productivity, reduce costs, and improve the quality of fermentation-derived products. Collaboration between academic institutions, research organizations, and industrial players is common in the microbial fermentation technology market. These collaborations foster knowledge exchange, research and development activities, and facilitate the commercialization of innovative fermentation processes and products. The microbial fermentation technology market is subject to regulatory considerations. Regulatory bodies and agencies have established

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guidelines and standards to ensure the safety, quality, and compliance of fermentation-derived products. Compliance with these regulations is essential for market access and consumer confidence.

Key Players in the Global Microbial Fermentation Technology Market

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in Microbial Fermentation Technology market are as follows:

- Biocon Ltd.
- Bio Vectra Inc.
- Danone Ltd.
- F. Hoffmann-La Roche AG
- Koninklijke DSM NV
- Lonza
- Novozymes A/S
- TerraVia Holdings, Inc.
- Biozeen
- United Breweries Ltd.

We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

Table of Contents:

- 1Preface
- 1.1Objectives of the Study
- 1.2Key Assumptions
- 1.3Report Coverage - Key Segmentation and Scope
- 1.4Research Methodology
- 2Executive Summary
- 3Global Microbial Fermentation Technology Market Overview
- 3.1Global Microbial Fermentation Technology Market Historical Value (2017-2023)
- 3.2Global Microbial Fermentation Technology Market Forecast Value (2024-2032)
- 4Global Microbial Fermentation Technology Market Landscape
- 4.1Global Microbial Fermentation Technology Developers Landscape
- 4.1.1Analysis by Year of Establishment
- 4.1.2Analysis by Company Size
- 4.1.3Analysis by Region
- 4.2Global Microbial Fermentation Technology Product Landscape
- 4.2.1Analysis by Type
- 4.2.2Analysis by Technology
- 5Global Microbial Fermentation Technology Market Dynamics
- 5.1Market Drivers and Constraints
- 5.2SWOT Analysis
- 5.3Porter's Five Forces Model
- 5.4Key Demand Indicators
- 5.5Key Price Indicators
- 5.6Industry Events, Initiatives, and Trends
- 5.7Value Chain Analysis
- 6Global Microbial Fermentation Technology Market Segmentation

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6.1 Global Microbial Fermentation Technology Market by Product Type

6.1.1 Market Overview

6.1.2 Medical Products

6.1.2.1 Antibiotics

6.1.2.2 Probiotics

6.1.2.3 Monoclonal Antibodies

6.1.2.4 Recombinant Proteins

6.1.2.5 Others

6.1.3 Industrial Products

6.1.4 Alcohol Beverages

6.1.5 Food and Feed Products

6.1.6 Others

6.2 Global Microbial Fermentation Technology Market by End User

6.2.1 Market Overview

6.2.2 Bio-Pharmaceutical Companies

6.2.3 Contract Research Organizations

6.2.4 CMOs and CDMOs

6.2.5 Academics and Research Institutes

6.2.6 Food and Feed Institutes

6.2.7 Others

6.3 Global Microbial Fermentation Technology Market by Region

6.3.1 Market Overview

6.3.2 North America

6.3.3 Europe

6.3.4 Asia Pacific

6.3.5 Latin America

6.3.6 Middle East and Africa

7 North America Microbial Fermentation Technology Market

7.1 Market Share by Country

7.2 United States of America

7.3 Canada

8 Europe Microbial Fermentation Technology Market

8.1 Market Share by Country

8.2 United Kingdom

8.3 Germany

8.4 France

8.5 Italy

8.6 Others

9 Asia Pacific Microbial Fermentation Technology Market

9.1 Market Share by Country

9.2 China

9.3 Japan

9.4 India

9.5 ASEAN

9.6 Australia

9.7 Others

10 Latin America Microbial Fermentation Technology Market

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- 10.1Market Share by Country
- 10.2Brazil
- 10.3Argentina
- 10.4Mexico
- 10.5Others
- 11Middle East and Africa Microbial Fermentation Technology Market
- 11.1Market Share by Country
- 11.2Saudi Arabia
- 11.3United Arab Emirates
- 11.4Nigeria
- 11.5South Africa
- 11.6Others
- 12Patent Analysis
- 12.1Analysis by Type of Patent
- 12.2Analysis by Publication year
- 12.3Analysis by Issuing Authority
- 12.4Analysis by Patent Age
- 12.5Analysis by CPC Analysis
- 12.6Analysis by Patent Valuation
- 12.7Analysis by Key Players
- 13Grants Analysis
- 13.1Analysis by year
- 13.2Analysis by Amount Awarded
- 13.3Analysis by Issuing Authority
- 13.4Analysis by Grant Application
- 13.5Analysis by Funding Institute
- 13.6Analysis by NIH Departments
- 13.7Analysis by Recipient Organization
- 14Funding Analysis
- 14.1Analysis by Funding Instances
- 14.2Analysis by Type of Funding
- 14.3Analysis by Funding Amount
- 14.4Analysis by Leading Players
- 14.5Analysis by Leading Investors
- 14.6Analysis by Geography
- 15Partnership and Collaborations Analysis
- 15.1Analysis by Partnership Instances
- 15.2Analysis by Type of Partnership
- 15.3Analysis by Leading Players
- 15.4Analysis by Geography
- 16Regulatory Framework
- 16.1Regulatory Overview
- 16.1.1US FDA
- 16.1.2EU EMA
- 16.1.3INDIA CDSCO
- 16.1.4JAPAN PMDA
- 16.1.5Others

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- 17Supplier Landscape
 - 17.1Biocon Ltd.
 - 17.1.1Financial Analysis
 - 17.1.2Product Portfolio
 - 17.1.3Demographic Reach and Achievements
 - 17.1.4Mergers and Acquisition
 - 17.1.5Certifications
 - 17.2Bio Vectra Inc.
 - 17.2.1Financial Analysis
 - 17.2.2Product Portfolio
 - 17.2.3Demographic Reach and Achievements
 - 17.2.4Mergers and Acquisition
 - 17.2.5Certifications
 - 17.3Danone Ltd.
 - 17.3.1Financial Analysis
 - 17.3.2Product Portfolio
 - 17.3.3Demographic Reach and Achievements
 - 17.3.4Mergers and Acquisition
 - 17.3.5Certifications
 - 17.4F. Hoffmann-La Roche AG
 - 17.4.1Financial Analysis
 - 17.4.2Product Portfolio
 - 17.4.3Demographic Reach and Achievements
 - 17.4.4Mergers and Acquisition
 - 17.4.5Certifications
 - 17.5Koninklijke DSM NV
 - 17.5.1Financial Analysis
 - 17.5.2Product Portfolio
 - 17.5.3Demographic Reach and Achievements
 - 17.5.4Mergers and Acquisition
 - 17.5.5Certifications
 - 17.6Lonza
 - 17.6.1Financial Analysis
 - 17.6.2Product Portfolio
 - 17.6.3Demographic Reach and Achievements
 - 17.6.4Mergers and Acquisition
 - 17.6.5Certifications
 - 17.7Novozymes A/S
 - 17.7.1Financial Analysis
 - 17.7.2Product Portfolio
 - 17.7.3Demographic Reach and Achievements
 - 17.7.4Mergers and Acquisition
 - 17.7.5Certifications
 - 17.8TerraVia Holdings, Inc.
 - 17.8.1Financial Analysis
 - 17.8.2Product Portfolio
 - 17.8.3Demographic Reach and Achievements

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- 17.8.4Mergers and Acquisition
- 17.8.5Certifications
- 17.9Biozeen
 - 17.9.1Financial Analysis
 - 17.9.2Product Portfolio
 - 17.9.3Demographic Reach and Achievements
 - 17.9.4Mergers and Acquisition
 - 17.9.5Certifications
- 17.10United Breweries Ltd.
 - 17.10.1Financial Analysis
 - 17.10.2Product Portfolio
 - 17.10.3Demographic Reach and Achievements
 - 17.10.4Mergers and Acquisition
 - 17.10.5Certifications
- 18Global Microbial Fermentation Technology Market - Distribution Model (Additional Insight)
- 18.1Overview
- 18.2Potential Distributors
- 18.3Key Parameters for Distribution Partner Assessment
- 19Key Opinion Leaders (KOL) Insights (Additional Insight)
- 20Company Competitiveness Analysis (Additional Insight)
 - 20.1Very Small Companies
 - 20.2Small Companies
 - 20.3Mid-Sized Companies
 - 20.4Large Companies
 - 20.5Very Large Companies
- 21Payment Methods (Additional Insight)
 - 21.1Government Funded
 - 21.2Private Insurance
 - 21.3Out-of-Pocket

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