

Live Biotherapeutics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (C.difficile, Crohns disease, IBS, Diabetes, Others), By Product (APIs, FDFs), By Type of Formulation (Solid Formulations, Oral Liquids, Injectables, Others), By Scale of Operation (Preclinical Scale Operations, Clinical Scale Operations, Commercial Scale Operations), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Live Biotherapeutics Market was valued at USD 112.34 Million in 2024 and is expected to reach USD 247.69 Million by 2030, growing at a CAGR of 14.06%. The market is witnessing strong growth as pharmaceutical and biotech companies increasingly invest in microbiome-based therapies to address chronic and infectious diseases. Live biotherapeutic products (LBPs)—defined as biological products containing live microorganisms for disease treatment or prevention—are showing promising applications in conditions like gastrointestinal disorders, metabolic diseases, and cancer. As scientific understanding of the gut microbiome's role in human health advances, research institutions and investors are showing increased interest. Additionally, regulatory agencies such as the U.S. FDA and the European Medicines Agency are introducing specific guidelines for LBP development, providing greater legitimacy and encouraging further innovation and investment in the field.

Key Market Drivers

Increasing Prevalence of Chronic Diseases

The rising global burden of chronic diseases is a major driver fueling the growth of the Live Biotherapeutics Market. Chronic conditions such as cardiovascular diseases, cancer, and diabetes are becoming more widespread due to risk factors like poor diet, alcohol use, smoking, and sedentary lifestyles. According to a 2019 report by the Pan American Health Organization (PAHO), ischemic heart disease caused 73.6 deaths per 100,000 population globally, followed by stroke (32.3), other circulatory diseases (14.8), hypertensive heart disease (10.6), and cancer as a leading secondary contributor to mortality. As these chronic diseases persist and increase in incidence, there is a growing need for innovative therapies that can address underlying causes and improve long-term outcomes. Live biotherapeutic products, by modulating the microbiome, offer potential as adjunct or standalone treatments in these chronic health areas, driving continued market expansion.

Key Market Challenges

Regulatory Uncertainty and Evolving Guidelines

One of the primary obstacles facing the Global Live Biotherapeutics Market is the ongoing uncertainty surrounding regulatory frameworks. Live biotherapeutic products involve complex and diverse microbial compositions that challenge traditional regulatory classifications. Agencies like the FDA and EMA are actively developing new guidelines, but the evolving nature of these regulations creates challenges for companies in terms of compliance, product approval, and commercialization timelines. This fluid regulatory environment can lead to increased development costs, extended approval periods, and complex multi-region compliance requirements. Moreover, the lack of harmonization across global regulatory bodies further complicates market entry, particularly for firms aiming to launch products internationally. Companies must constantly adapt to changing requirements, which demands significant time, financial resources, and regulatory expertise—slowing market penetration and increasing operational burden.

Key Market Trends

Rising Interest in Microbiome-Based Therapeutics

The increasing focus on microbiome-based therapeutics is shaping the trajectory of the Global Live Biotherapeutics Market. Scientific discoveries highlighting the microbiome's

role in regulating immunity, digestion, metabolism, and disease resistance have positioned it as a key target for drug development. Pharmaceutical and biotech firms are increasingly leveraging this understanding to create targeted therapies that restore microbiome balance, particularly in diseases such as inflammatory bowel disease (IBD), cancer, and autoimmune conditions. As research continues to demonstrate the therapeutic relevance of microbiota modulation, demand for live biotherapeutic products is expanding. This trend is also attracting investment from both public and private sectors, leading to greater innovation and pipeline growth within the LBP segment.

Key Market Players

Arrant Bio

4D Pharma

Cerbios

Biose Industrie

Assembly Biosciences, Inc.

Wacker Chemie AG

Quay Pharmaceuticals

NIZO

Lonza

Inpac Probiotics

Report Scope:

In this report, the Global Live Biotherapeutics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Live Biotherapeutics Market, By Application:

C. difficile

Crohn's Disease

IBS

Diabetes

Others

Live Biotherapeutics Market, By Product:

APIs

FDFs

Live Biotherapeutics Market, By Type of Formulation:

Solid Formulations

Oral Liquids

Injectables

Others

Live Biotherapeutics Market, By Scale of Operation:

Preclinical Scale Operations

Clinical Scale Operations

Commercial Scale Operations

Live Biotherapeutics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Live Biotherapeutics Market.

Available Customizations:

Global Live Biotherapeutics Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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