

# Global Microbial Strain Engineering Services Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Microbial Strain Engineering Services market size was valued at US\$ 1168 million in 2025 and is forecast to a readjusted size of US\$ 1659 million by 2032 with a CAGR of 5.1% during review period.

Microbial strain engineering services utilize synthetic biology, gene editing, and systems metabolic engineering technologies to provide clients with a one-stop R&D and solution, from strain screening and gene modification to functional verification. The core of this service lies in the targeted design of microbial genetic information to precisely optimize their metabolic pathways, thereby achieving the efficient synthesis of specific target products or the enhancement of specific functions. It is widely used in biomedicine, food fermentation, environmental protection, and agriculture, aiming to solve problems such as low yields, impure products, or limited functionality of natural strains. This service is a core driving force of the modern biomanufacturing industry, contributing to the realization of green, efficient, and sustainable biomanufacturing.

The global Microbial Strain Engineering Services market is currently experiencing rapid growth driven by both technological breakthroughs and industrial explosion. With the synthetic biology wave sweeping the industry, North America, Europe, and China have become core innovation hubs, and the industry focus has shifted from traditional mutagenesis screening to rational design based on gene editing and metabolic remodeling. Market application scenarios continue to expand, with strong demand in biopharmaceuticals (such as synthetic biology pharmaceuticals), food ingredients (such as alternative proteins), agriculture, and environmental remediation. As the cost of DNA synthesis decreases and high-throughput automated platforms become more

widespread, the industry is evolving from single-strain modification to platform-based 'design-build-test-learn' services, presenting a situation where both technological barriers and commercial value are increasing simultaneously.

This report is a detailed and comprehensive analysis for global Microbial Strain Engineering Services market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Microbial Strain Engineering Services market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Microbial Strain Engineering Services market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Microbial Strain Engineering Services market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Microbial Strain Engineering Services market shares of main players, in revenue (\$ Million), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Microbial Strain Engineering Services

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Microbial Strain Engineering Services market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Acies Bio, Biocatalysts, Biosynsis, Bio-Technical Resources, BRAIN Biotech, Colorifix, Creative Biogene, Creative Enzymes, Esco Aster, Novozymes, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

## Market segmentation

Microbial Strain Engineering Services market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Strains Screening and Domestication Services

Gene Editing and Synthesis Services

Metabolic Pathway Reconstruction Services

Others

### Market segment by Target

Yield-Enhancing

Substrate-Expanding

Tolerance-Enhancing

Others

### Market segment by Application

Biopharmaceuticals

Food and Ingredients

Agriculture and Environment

Energy and Materials

Others

Market segment by players, this report covers

Acies Bio

Biocatalysts

Biosynsis

Bio-Technical Resources

BRAIN Biotech

Colorifix

Creative Biogene

Creative Enzymes

Esco Aster

Novozymes

Explogen

NCIMB

Hamilton Company

Isomerase

LIVZYM Biotechnology

Lonza

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Microbial Strain Engineering Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Microbial Strain Engineering Services, with revenue, gross margin, and global market share of Microbial Strain Engineering Services from 2021 to 2026.

Chapter 3, the Microbial Strain Engineering Services competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Microbial Strain Engineering Services market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Microbial Strain Engineering Services.

Chapter 13, to describe Microbial Strain Engineering Services research findings and conclusion.

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