

Global Microbial Strain Engineering Services Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Microbial Strain Engineering Services market size is predicted to grow from US\$ 1110 million in 2025 to US\$ 1606 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

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.

United States market for Microbial Strain Engineering Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Microbial Strain Engineering Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Microbial Strain Engineering Services is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Microbial Strain Engineering Services players cover Acies Bio, Biocatalysts, Biosynsis, Bio-Technical Resources, BRAIN Biotech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Microbial Strain Engineering Services Industry Forecast' looks at past sales and reviews total world Microbial Strain Engineering Services sales in 2025, providing a comprehensive analysis by region and market sector of projected Microbial Strain Engineering Services sales for 2026 through 2032. With Microbial Strain Engineering Services sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microbial Strain Engineering Services industry.

This Insight Report provides a comprehensive analysis of the global Microbial Strain Engineering Services landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Microbial Strain Engineering Services portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Microbial Strain Engineering Services market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microbial Strain Engineering Services and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Microbial Strain Engineering

Services.

This report presents a comprehensive overview, market shares, and growth opportunities of Microbial Strain Engineering Services market by product type, application, key players and key regions and countries.

Segmentation by Type:

Strains Screening and Domestication Services

Gene Editing and Synthesis Services

Metabolic Pathway Reconstruction Services

Others

Segmentation by Target:

Yield-Enhancing

Substrate-Expanding

Tolerance-Enhancing

Others

Segmentation by Application:

Biopharmaceuticals

Food and Ingredients

Agriculture and Environment

Energy and Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Microbial Strain Engineering Services Market Size (2021-2032)

- 2.1.2 Microbial Strain Engineering Services Market Size CAGR by Region (2021 VS 2025 VS 2032)

- 2.1.3 World Current & Future Analysis for Microbial Strain Engineering Services by Country/Region (2021, 2025 & 2032)

2.2 Microbial Strain Engineering Services Segment by Type

- 2.2.1 Strains Screening and Domestication Services

- 2.2.2 Gene Editing and Synthesis Services

- 2.2.3 Metabolic Pathway Reconstruction Services

- 2.2.4 Others

- 2.2.5 Microbial Strain Engineering Services Market Size by Type

- 2.2.5.1 Microbial Strain Engineering Services Market Size CAGR by Type (2021 VS 2025 VS 2032)

- 2.2.5.2 Global Microbial Strain Engineering Services Market Size Market Share by Type (2021-2026)

2.3 Microbial Strain Engineering Services Segment by Target

- 2.3.1 Yield-Enhancing

- 2.3.2 Substrate-Expanding

- 2.3.3 Tolerance-Enhancing

- 2.3.4 Others

- 2.3.5 Microbial Strain Engineering Services Market Size by Target

- 2.3.5.1 Microbial Strain Engineering Services Market Size CAGR by Target (2021 VS 2025 VS 2032)

2.3.5.2 Global Microbial Strain Engineering Services Market Size Market Share by Target (2021-2026)

2.4 Microbial Strain Engineering Services Segment by Application

2.4.1 Biopharmaceuticals

2.4.2 Food and Ingredients

2.4.3 Agriculture and Environment

2.4.4 Energy and Materials

2.4.5 Others

2.4.6 Microbial Strain Engineering Services Market Size by Application

2.4.6.1 Microbial Strain Engineering Services Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.4.6.2 Global Microbial Strain Engineering Services Market Size Market Share by Application (2021-2026)

3 MICROBIAL STRAIN ENGINEERING SERVICES MARKET SIZE BY PLAYER

3.1 Microbial Strain Engineering Services Market Size Market Share by Player

3.1.1 Global Microbial Strain Engineering Services Revenue by Player (2021-2026)

3.1.2 Global Microbial Strain Engineering Services Revenue Market Share by Player (2021-2026)

3.2 Global Microbial Strain Engineering Services Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 MICROBIAL STRAIN ENGINEERING SERVICES BY REGION

4.1 Microbial Strain Engineering Services Market Size by Region (2021-2026)

4.2 Global Microbial Strain Engineering Services Annual Revenue by Country/Region (2021-2026)

4.3 Americas Microbial Strain Engineering Services Market Size Growth (2021-2026)

4.4 APAC Microbial Strain Engineering Services Market Size Growth (2021-2026)

4.5 Europe Microbial Strain Engineering Services Market Size Growth (2021-2026)

4.6 Middle East & Africa Microbial Strain Engineering Services Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Microbial Strain Engineering Services Market Size by Country
(2021-2026)

5.2 Americas Microbial Strain Engineering Services Market Size by Type (2021-2026)

5.3 Americas Microbial Strain Engineering Services Market Size by Application
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Microbial Strain Engineering Services Market Size by Region (2021-2026)

6.2 APAC Microbial Strain Engineering Services Market Size by Type (2021-2026)

6.3 APAC Microbial Strain Engineering Services Market Size by Application
(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Microbial Strain Engineering Services Market Size by Country (2021-2026)

7.2 Europe Microbial Strain Engineering Services Market Size by Type (2021-2026)

7.3 Europe Microbial Strain Engineering Services Market Size by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Microbial Strain Engineering Services by Region (2021-2026)
- 8.2 Middle East & Africa Microbial Strain Engineering Services Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Microbial Strain Engineering Services Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 GLOBAL MICROBIAL STRAIN ENGINEERING SERVICES MARKET FORECAST

- 10.1 Global Microbial Strain Engineering Services Forecast by Region (2027-2032)
 - 10.1.1 Global Microbial Strain Engineering Services Forecast by Region (2027-2032)
 - 10.1.2 Americas Microbial Strain Engineering Services Forecast
 - 10.1.3 APAC Microbial Strain Engineering Services Forecast
 - 10.1.4 Europe Microbial Strain Engineering Services Forecast
 - 10.1.5 Middle East & Africa Microbial Strain Engineering Services Forecast
- 10.2 Americas Microbial Strain Engineering Services Forecast by Country (2027-2032)
 - 10.2.1 United States Market Microbial Strain Engineering Services Forecast
 - 10.2.2 Canada Market Microbial Strain Engineering Services Forecast
 - 10.2.3 Mexico Market Microbial Strain Engineering Services Forecast
 - 10.2.4 Brazil Market Microbial Strain Engineering Services Forecast
- 10.3 APAC Microbial Strain Engineering Services Forecast by Region (2027-2032)
 - 10.3.1 China Microbial Strain Engineering Services Market Forecast
 - 10.3.2 Japan Market Microbial Strain Engineering Services Forecast
 - 10.3.3 Korea Market Microbial Strain Engineering Services Forecast
 - 10.3.4 Southeast Asia Market Microbial Strain Engineering Services Forecast
 - 10.3.5 India Market Microbial Strain Engineering Services Forecast
 - 10.3.6 Australia Market Microbial Strain Engineering Services Forecast
- 10.4 Europe Microbial Strain Engineering Services Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Microbial Strain Engineering Services Forecast

- 10.4.2 France Market Microbial Strain Engineering Services Forecast
- 10.4.3 UK Market Microbial Strain Engineering Services Forecast
- 10.4.4 Italy Market Microbial Strain Engineering Services Forecast
- 10.4.5 Russia Market Microbial Strain Engineering Services Forecast
- 10.5 Middle East & Africa Microbial Strain Engineering Services Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Microbial Strain Engineering Services Forecast
 - 10.5.2 South Africa Market Microbial Strain Engineering Services Forecast
 - 10.5.3 Israel Market Microbial Strain Engineering Services Forecast
 - 10.5.4 Turkey Market Microbial Strain Engineering Services Forecast
- 10.6 Global Microbial Strain Engineering Services Forecast by Type (2027-2032)
- 10.7 Global Microbial Strain Engineering Services Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Microbial Strain Engineering Services Forecast

11 KEY PLAYERS ANALYSIS

11.1 Acies Bio

- 11.1.1 Acies Bio Company Information
- 11.1.2 Acies Bio Microbial Strain Engineering Services Product Offered
- 11.1.3 Acies Bio Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 Acies Bio Main Business Overview
- 11.1.5 Acies Bio Latest Developments

11.2 Biocatalysts

- 11.2.1 Biocatalysts Company Information
- 11.2.2 Biocatalysts Microbial Strain Engineering Services Product Offered
- 11.2.3 Biocatalysts Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 Biocatalysts Main Business Overview
- 11.2.5 Biocatalysts Latest Developments

11.3 Biosynsis

- 11.3.1 Biosynsis Company Information
- 11.3.2 Biosynsis Microbial Strain Engineering Services Product Offered
- 11.3.3 Biosynsis Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 Biosynsis Main Business Overview
- 11.3.5 Biosynsis Latest Developments

11.4 Bio-Technical Resources

- 11.4.1 Bio-Technical Resources Company Information

- 11.4.2 Bio-Technical Resources Microbial Strain Engineering Services Product Offered
- 11.4.3 Bio-Technical Resources Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
- 11.4.4 Bio-Technical Resources Main Business Overview
- 11.4.5 Bio-Technical Resources Latest Developments
- 11.5 BRAIN Biotech
 - 11.5.1 BRAIN Biotech Company Information
 - 11.5.2 BRAIN Biotech Microbial Strain Engineering Services Product Offered
 - 11.5.3 BRAIN Biotech Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 BRAIN Biotech Main Business Overview
 - 11.5.5 BRAIN Biotech Latest Developments
- 11.6 Colorifix
 - 11.6.1 Colorifix Company Information
 - 11.6.2 Colorifix Microbial Strain Engineering Services Product Offered
 - 11.6.3 Colorifix Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 Colorifix Main Business Overview
 - 11.6.5 Colorifix Latest Developments
- 11.7 Creative Biogene
 - 11.7.1 Creative Biogene Company Information
 - 11.7.2 Creative Biogene Microbial Strain Engineering Services Product Offered
 - 11.7.3 Creative Biogene Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Creative Biogene Main Business Overview
 - 11.7.5 Creative Biogene Latest Developments
- 11.8 Creative Enzymes
 - 11.8.1 Creative Enzymes Company Information
 - 11.8.2 Creative Enzymes Microbial Strain Engineering Services Product Offered
 - 11.8.3 Creative Enzymes Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 Creative Enzymes Main Business Overview
 - 11.8.5 Creative Enzymes Latest Developments
- 11.9 Esco Aster
 - 11.9.1 Esco Aster Company Information
 - 11.9.2 Esco Aster Microbial Strain Engineering Services Product Offered
 - 11.9.3 Esco Aster Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 Esco Aster Main Business Overview

- 11.9.5 Esco Aster Latest Developments
- 11.10 Novozymes
 - 11.10.1 Novozymes Company Information
 - 11.10.2 Novozymes Microbial Strain Engineering Services Product Offered
 - 11.10.3 Novozymes Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Novozymes Main Business Overview
 - 11.10.5 Novozymes Latest Developments
- 11.11 Explogen
 - 11.11.1 Explogen Company Information
 - 11.11.2 Explogen Microbial Strain Engineering Services Product Offered
 - 11.11.3 Explogen Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Explogen Main Business Overview
 - 11.11.5 Explogen Latest Developments
- 11.12 NCIMB
 - 11.12.1 NCIMB Company Information
 - 11.12.2 NCIMB Microbial Strain Engineering Services Product Offered
 - 11.12.3 NCIMB Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 NCIMB Main Business Overview
 - 11.12.5 NCIMB Latest Developments
- 11.13 Hamilton Company
 - 11.13.1 Hamilton Company Company Information
 - 11.13.2 Hamilton Company Microbial Strain Engineering Services Product Offered
 - 11.13.3 Hamilton Company Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 Hamilton Company Main Business Overview
 - 11.13.5 Hamilton Company Latest Developments
- 11.14 Isomerase
 - 11.14.1 Isomerase Company Information
 - 11.14.2 Isomerase Microbial Strain Engineering Services Product Offered
 - 11.14.3 Isomerase Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 11.14.4 Isomerase Main Business Overview
 - 11.14.5 Isomerase Latest Developments
- 11.15 LIVZYM Biotechnology
 - 11.15.1 LIVZYM Biotechnology Company Information
 - 11.15.2 LIVZYM Biotechnology Microbial Strain Engineering Services Product Offered

11.15.3 LIVZYM Biotechnology Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)

11.15.4 LIVZYM Biotechnology Main Business Overview

11.15.5 LIVZYM Biotechnology Latest Developments

11.16 Lonza

11.16.1 Lonza Company Information

11.16.2 Lonza Microbial Strain Engineering Services Product Offered

11.16.3 Lonza Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)

11.16.4 Lonza Main Business Overview

11.16.5 Lonza Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Microbial Strain Engineering Services Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)
- Table 2. Microbial Strain Engineering Services Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Strains Screening and Domestication Services
- Table 4. Major Players of Gene Editing and Synthesis Services
- Table 5. Major Players of Metabolic Pathway Reconstruction Services
- Table 6. Major Players of Others
- Table 7. Microbial Strain Engineering Services Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)
- Table 8. Global Microbial Strain Engineering Services Market Size by Type (2021-2026) & (\$ millions)
- Table 9. Global Microbial Strain Engineering Services Market Size Market Share by Type (2021-2026)
- Table 10. Major Players of Yield-Enhancing
- Table 11. Major Players of Substrate-Expanding
- Table 12. Major Players of Tolerance-Enhancing
- Table 13. Major Players of Others
- Table 14. Microbial Strain Engineering Services Market Size CAGR by Target (2021 VS 2025 VS 2032) & (\$ millions)
- Table 15. Global Microbial Strain Engineering Services Market Size by Target (2021-2026) & (\$ millions)
- Table 16. Global Microbial Strain Engineering Services Market Size Market Share by Target (2021-2026)
- Table 17. Microbial Strain Engineering Services Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)
- Table 18. Global Microbial Strain Engineering Services Market Size by Application (2021-2026) & (\$ millions)
- Table 19. Global Microbial Strain Engineering Services Market Size Market Share by Application (2021-2026)
- Table 20. Global Microbial Strain Engineering Services Revenue by Player (2021-2026) & (\$ millions)
- Table 21. Global Microbial Strain Engineering Services Revenue Market Share by Player (2021-2026)
- Table 22. Microbial Strain Engineering Services Key Players Head office and Products

Offered

Table 23. Microbial Strain Engineering Services Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Mergers & Acquisitions, Expansion

Table 26. Global Microbial Strain Engineering Services Market Size by Region (2021-2026) & (\$ millions)

Table 27. Global Microbial Strain Engineering Services Market Size Market Share by Region (2021-2026)

Table 28. Global Microbial Strain Engineering Services Revenue by Country/Region (2021-2026) & (\$ millions)

Table 29. Global Microbial Strain Engineering Services Revenue Market Share by Country/Region (2021-2026)

Table 30. Americas Microbial Strain Engineering Services Market Size by Country (2021-2026) & (\$ millions)

Table 31. Americas Microbial Strain Engineering Services Market Size Market Share by Country (2021-2026)

Table 32. Americas Microbial Strain Engineering Services Market Size by Type (2021-2026) & (\$ millions)

Table 33. Americas Microbial Strain Engineering Services Market Size Market Share by Type (2021-2026)

Table 34. Americas Microbial Strain Engineering Services Market Size by Application (2021-2026) & (\$ millions)

Table 35. Americas Microbial Strain Engineering Services Market Size Market Share by Application (2021-2026)

Table 36. APAC Microbial Strain Engineering Services Market Size by Region (2021-2026) & (\$ millions)

Table 37. APAC Microbial Strain Engineering Services Market Size Market Share by Region (2021-2026)

Table 38. APAC Microbial Strain Engineering Services Market Size by Type (2021-2026) & (\$ millions)

Table 39. APAC Microbial Strain Engineering Services Market Size by Application (2021-2026) & (\$ millions)

Table 40. Europe Microbial Strain Engineering Services Market Size by Country (2021-2026) & (\$ millions)

Table 41. Europe Microbial Strain Engineering Services Market Size Market Share by Country (2021-2026)

Table 42. Europe Microbial Strain Engineering Services Market Size by Type (2021-2026) & (\$ millions)

Table 43. Europe Microbial Strain Engineering Services Market Size by Application (2021-2026) & (\$ millions)

Table 44. Middle East & Africa Microbial Strain Engineering Services Market Size by Region (2021-2026) & (\$ millions)

Table 45. Middle East & Africa Microbial Strain Engineering Services Market Size by Type (2021-2026) & (\$ millions)

Table 46. Middle East & Africa Microbial Strain Engineering Services Market Size by Application (2021-2026) & (\$ millions)

Table 47. Key Market Drivers & Growth Opportunities of Microbial Strain Engineering Services

Table 48. Key Market Challenges & Risks of Microbial Strain Engineering Services

Table 49. Key Industry Trends of Microbial Strain Engineering Services

Table 50. Global Microbial Strain Engineering Services Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 51. Global Microbial Strain Engineering Services Market Size Market Share Forecast by Region (2027-2032)

Table 52. Global Microbial Strain Engineering Services Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 53. Global Microbial Strain Engineering Services Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 54. Acies Bio Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 55. Acies Bio Microbial Strain Engineering Services Product Offered

Table 56. Acies Bio Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 57. Acies Bio Main Business

Table 58. Acies Bio Latest Developments

Table 59. Biocatalysts Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 60. Biocatalysts Microbial Strain Engineering Services Product Offered

Table 61. Biocatalysts Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 62. Biocatalysts Main Business

Table 63. Biocatalysts Latest Developments

Table 64. Biosynsis Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 65. Biosynsis Microbial Strain Engineering Services Product Offered

Table 66. Biosynsis Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 67. Biosynsis Main Business

Table 68. Biosynsis Latest Developments

Table 69. Bio-Technical Resources Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 70. Bio-Technical Resources Microbial Strain Engineering Services Product Offered

Table 71. Bio-Technical Resources Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 72. Bio-Technical Resources Main Business

Table 73. Bio-Technical Resources Latest Developments

Table 74. BRAIN Biotech Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 75. BRAIN Biotech Microbial Strain Engineering Services Product Offered

Table 76. BRAIN Biotech Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 77. BRAIN Biotech Main Business

Table 78. BRAIN Biotech Latest Developments

Table 79. Colorifix Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 80. Colorifix Microbial Strain Engineering Services Product Offered

Table 81. Colorifix Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 82. Colorifix Main Business

Table 83. Colorifix Latest Developments

Table 84. Creative Biogene Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 85. Creative Biogene Microbial Strain Engineering Services Product Offered

Table 86. Creative Biogene Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 87. Creative Biogene Main Business

Table 88. Creative Biogene Latest Developments

Table 89. Creative Enzymes Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 90. Creative Enzymes Microbial Strain Engineering Services Product Offered

Table 91. Creative Enzymes Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 92. Creative Enzymes Main Business

Table 93. Creative Enzymes Latest Developments

Table 94. Esco Aster Details, Company Type, Microbial Strain Engineering Services

Area Served and Its Competitors

Table 95. Esco Aster Microbial Strain Engineering Services Product Offered

Table 96. Esco Aster Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 97. Esco Aster Main Business

Table 98. Esco Aster Latest Developments

Table 99. Novozymes Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 100. Novozymes Microbial Strain Engineering Services Product Offered

Table 101. Novozymes Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 102. Novozymes Main Business

Table 103. Novozymes Latest Developments

Table 104. Explogen Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 105. Explogen Microbial Strain Engineering Services Product Offered

Table 106. Explogen Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 107. Explogen Main Business

Table 108. Explogen Latest Developments

Table 109. NCIMB Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 110. NCIMB Microbial Strain Engineering Services Product Offered

Table 111. NCIMB Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 112. NCIMB Main Business

Table 113. NCIMB Latest Developments

Table 114. Hamilton Company Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 115. Hamilton Company Microbial Strain Engineering Services Product Offered

Table 116. Hamilton Company Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 117. Hamilton Company Main Business

Table 118. Hamilton Company Latest Developments

Table 119. Isomerase Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 120. Isomerase Microbial Strain Engineering Services Product Offered

Table 121. Isomerase Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 122. Isomerase Main Business

Table 123. Isomerase Latest Developments

Table 124. LIVZYM Biotechnology Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 125. LIVZYM Biotechnology Microbial Strain Engineering Services Product Offered

Table 126. LIVZYM Biotechnology Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 127. LIVZYM Biotechnology Main Business

Table 128. LIVZYM Biotechnology Latest Developments

Table 129. Lonza Details, Company Type, Microbial Strain Engineering Services Area Served and Its Competitors

Table 130. Lonza Microbial Strain Engineering Services Product Offered

Table 131. Lonza Microbial Strain Engineering Services Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 132. Lonza Main Business

Table 133. Lonza Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Microbial Strain Engineering Services Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Microbial Strain Engineering Services Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Microbial Strain Engineering Services Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Microbial Strain Engineering Services Sales Market Share by Country/Region (2025)

Figure 8. Microbial Strain Engineering Services Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Microbial Strain Engineering Services Market Size Market Share by Type in 2025

Figure 10. Global Microbial Strain Engineering Services Market Size Market Share by Target in 2025

Figure 11. Microbial Strain Engineering Services in Biopharmaceuticals

Figure 12. Global Microbial Strain Engineering Services Market: Biopharmaceuticals (2021-2026) & (\$ millions)

Figure 13. Microbial Strain Engineering Services in Food and Ingredients

Figure 14. Global Microbial Strain Engineering Services Market: Food and Ingredients (2021-2026) & (\$ millions)

Figure 15. Microbial Strain Engineering Services in Agriculture and Environment

Figure 16. Global Microbial Strain Engineering Services Market: Agriculture and Environment (2021-2026) & (\$ millions)

Figure 17. Microbial Strain Engineering Services in Energy and Materials

Figure 18. Global Microbial Strain Engineering Services Market: Energy and Materials (2021-2026) & (\$ millions)

Figure 19. Microbial Strain Engineering Services in Others

Figure 20. Global Microbial Strain Engineering Services Market: Others (2021-2026) & (\$ millions)

Figure 21. Global Microbial Strain Engineering Services Market Size Market Share by Application in 2025

Figure 22. Global Microbial Strain Engineering Services Revenue Market Share by Player in 2025

Figure 23. Global Microbial Strain Engineering Services Market Size Market Share by Region (2021-2026)

Figure 24. Americas Microbial Strain Engineering Services Market Size 2021-2026 (\$ millions)

Figure 25. APAC Microbial Strain Engineering Services Market Size 2021-2026 (\$ millions)

Figure 26. Europe Microbial Strain Engineering Services Market Size 2021-2026 (\$ millions)

Figure 27. Middle East & Africa Microbial Strain Engineering Services Market Size 2021-2026 (\$ millions)

Figure 28. Americas Microbial Strain Engineering Services Value Market Share by Country in 2025

Figure 29. United States Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 30. Canada Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 31. Mexico Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 32. Brazil Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 33. APAC Microbial Strain Engineering Services Market Size Market Share by Region in 2025

Figure 34. APAC Microbial Strain Engineering Services Market Size Market Share by Type (2021-2026)

Figure 35. APAC Microbial Strain Engineering Services Market Size Market Share by Application (2021-2026)

Figure 36. China Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 37. Japan Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 38. South Korea Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 39. Southeast Asia Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 40. India Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 41. Australia Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 42. Europe Microbial Strain Engineering Services Market Size Market Share by

Country in 2025

Figure 43. Europe Microbial Strain Engineering Services Market Size Market Share by Type (2021-2026)

Figure 44. Europe Microbial Strain Engineering Services Market Size Market Share by Application (2021-2026)

Figure 45. Germany Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 46. France Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 47. UK Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 48. Italy Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 49. Russia Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Microbial Strain Engineering Services Market Size Market Share by Region (2021-2026)

Figure 51. Middle East & Africa Microbial Strain Engineering Services Market Size Market Share by Type (2021-2026)

Figure 52. Middle East & Africa Microbial Strain Engineering Services Market Size Market Share by Application (2021-2026)

Figure 53. Egypt Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 54. South Africa Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 55. Israel Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 56. Turkey Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 57. GCC Countries Microbial Strain Engineering Services Market Size Growth 2021-2026 (\$ millions)

Figure 58. Americas Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 59. APAC Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 60. Europe Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 61. Middle East & Africa Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 62. United States Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 63. Canada Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 64. Mexico Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 65. Brazil Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 66. China Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 67. Japan Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 68. Korea Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 69. Southeast Asia Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 70. India Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 71. Australia Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 72. Germany Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 73. France Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 74. UK Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 75. Italy Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 76. Russia Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 77. Egypt Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 78. South Africa Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 79. Israel Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 80. Turkey Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

Figure 81. Global Microbial Strain Engineering Services Market Size Market Share Forecast by Type (2027-2032)

Figure 82. Global Microbial Strain Engineering Services Market Size Market Share Forecast by Application (2027-2032)

Figure 83. GCC Countries Microbial Strain Engineering Services Market Size 2027-2032 (\$ millions)

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