

Global Microbial Strain Engineering Services Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GCA3382B16F4EN.html>

Date: April 2026

Pages: 144

Price: US\$ 4,480.00 (Single User License)

ID: GCA3382B16F4EN

Abstracts

The global Microbial Strain Engineering Services market size is expected to reach \$ 1659 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Microbial Strain Engineering Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microbial Strain Engineering Services, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Microbial Strain Engineering Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microbial Strain Engineering Services total market, 2021-2032, (USD Million)

Global Microbial Strain Engineering Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Microbial Strain Engineering Services total market, key domestic companies, and share, (USD Million)

Global Microbial Strain Engineering Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Microbial Strain Engineering Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Microbial Strain Engineering Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Microbial Strain Engineering Services market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Microbial Strain Engineering Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microbial Strain Engineering Services Market, Segmentation by Type:

Strains Screening and Domestication Services

Gene Editing and Synthesis Services

Metabolic Pathway Reconstruction Services

Others

Global Microbial Strain Engineering Services Market, Segmentation by Target:

Yield-Enhancing

Substrate-Expanding

Tolerance-Enhancing

Others

Global Microbial Strain Engineering Services Market, Segmentation by Application:

Biopharmaceuticals

Food and Ingredients

Agriculture and Environment

Energy and Materials

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Microbial Strain Engineering Services market?
2. What is the demand of the global Microbial Strain Engineering Services market?
3. What is the year over year growth of the global Microbial Strain Engineering Services market?
4. What is the total value of the global Microbial Strain Engineering Services market?
5. Who are the Major Players in the global Microbial Strain Engineering Services market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Microbial Strain Engineering Services Introduction
- 1.2 World Microbial Strain Engineering Services Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Microbial Strain Engineering Services Total Market by Region (by Headquarter Location)
 - 1.3.1 World Microbial Strain Engineering Services Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Microbial Strain Engineering Services Revenue (2021-2032)
 - 1.3.3 China Based Company Microbial Strain Engineering Services Revenue (2021-2032)
 - 1.3.4 Europe Based Company Microbial Strain Engineering Services Revenue (2021-2032)
 - 1.3.5 Japan Based Company Microbial Strain Engineering Services Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Microbial Strain Engineering Services Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Microbial Strain Engineering Services Revenue (2021-2032)
 - 1.3.8 India Based Company Microbial Strain Engineering Services Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Microbial Strain Engineering Services Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Microbial Strain Engineering Services Consumption Value (2021-2032)
- 2.2 World Microbial Strain Engineering Services Consumption Value by Region
 - 2.2.1 World Microbial Strain Engineering Services Consumption Value by Region (2021-2026)
 - 2.2.2 World Microbial Strain Engineering Services Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Microbial Strain Engineering Services Consumption Value

(2021-2032)

2.4 China Microbial Strain Engineering Services Consumption Value (2021-2032)

2.5 Europe Microbial Strain Engineering Services Consumption Value (2021-2032)

2.6 Japan Microbial Strain Engineering Services Consumption Value (2021-2032)

2.7 South Korea Microbial Strain Engineering Services Consumption Value (2021-2032)

2.8 ASEAN Microbial Strain Engineering Services Consumption Value (2021-2032)

2.9 India Microbial Strain Engineering Services Consumption Value (2021-2032)

3 WORLD MICROBIAL STRAIN ENGINEERING SERVICES COMPANIES COMPETITIVE ANALYSIS

3.1 World Microbial Strain Engineering Services Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Microbial Strain Engineering Services Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Microbial Strain Engineering Services in 2025

3.2.3 Global Concentration Ratios (CR8) for Microbial Strain Engineering Services in 2025

3.3 Microbial Strain Engineering Services Company Evaluation Quadrant

3.4 Microbial Strain Engineering Services Market: Overall Company Footprint Analysis

3.4.1 Microbial Strain Engineering Services Market: Region Footprint

3.4.2 Microbial Strain Engineering Services Market: Company Product Type Footprint

3.4.3 Microbial Strain Engineering Services Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Microbial Strain Engineering Services Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Microbial Strain Engineering Services Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Microbial Strain Engineering Services Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Microbial Strain Engineering Services Consumption Value Comparison

4.2.1 United States VS China: Microbial Strain Engineering Services Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Microbial Strain Engineering Services Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Microbial Strain Engineering Services Companies and Market Share, 2021-2026

4.3.1 United States Based Microbial Strain Engineering Services Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Microbial Strain Engineering Services Revenue, (2021-2026)

4.4 China Based Companies Microbial Strain Engineering Services Revenue and Market Share, 2021-2026

4.4.1 China Based Microbial Strain Engineering Services Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Microbial Strain Engineering Services Revenue, (2021-2026)

4.5 Rest of World Based Microbial Strain Engineering Services Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Microbial Strain Engineering Services Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Microbial Strain Engineering Services Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Microbial Strain Engineering Services Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Strains Screening and Domestication Services

5.2.2 Gene Editing and Synthesis Services

5.2.3 Metabolic Pathway Reconstruction Services

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Microbial Strain Engineering Services Market Size by Type (2021-2026)

5.3.2 World Microbial Strain Engineering Services Market Size by Type (2027-2032)

5.3.3 World Microbial Strain Engineering Services Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY TARGET

6.1 World Microbial Strain Engineering Services Market Size Overview by Target: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Target

6.2.1 Yield-Enhancing

6.2.2 Substrate-Expanding

6.2.3 Tolerance-Enhancing

6.2.4 Others

6.3 Market Segment by Target

6.3.1 World Microbial Strain Engineering Services Market Size by Target (2021-2026)

6.3.2 World Microbial Strain Engineering Services Market Size by Target (2027-2032)

6.3.3 World Microbial Strain Engineering Services Market Size Market Share by Target (2027-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Microbial Strain Engineering Services Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Biopharmaceuticals

7.2.2 Food and Ingredients

7.2.3 Agriculture and Environment

7.2.4 Energy and Materials

7.2.5 Others

7.3 Market Segment by Application

7.3.1 World Microbial Strain Engineering Services Market Size by Application (2021-2026)

7.3.2 World Microbial Strain Engineering Services Market Size by Application (2027-2032)

7.3.3 World Microbial Strain Engineering Services Market Size Market Share by Application (2021-2032)

8 COMPANY PROFILES

8.1 Acies Bio

8.1.1 Acies Bio Details

8.1.2 Acies Bio Major Business

- 8.1.3 Acies Bio Microbial Strain Engineering Services Product and Services
- 8.1.4 Acies Bio Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
- 8.1.5 Acies Bio Recent Developments/Updates
- 8.1.6 Acies Bio Competitive Strengths & Weaknesses
- 8.2 Biocatalysts
 - 8.2.1 Biocatalysts Details
 - 8.2.2 Biocatalysts Major Business
 - 8.2.3 Biocatalysts Microbial Strain Engineering Services Product and Services
 - 8.2.4 Biocatalysts Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.2.5 Biocatalysts Recent Developments/Updates
 - 8.2.6 Biocatalysts Competitive Strengths & Weaknesses
- 8.3 Biosynsis
 - 8.3.1 Biosynsis Details
 - 8.3.2 Biosynsis Major Business
 - 8.3.3 Biosynsis Microbial Strain Engineering Services Product and Services
 - 8.3.4 Biosynsis Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Biosynsis Recent Developments/Updates
 - 8.3.6 Biosynsis Competitive Strengths & Weaknesses
- 8.4 Bio-Technical Resources
 - 8.4.1 Bio-Technical Resources Details
 - 8.4.2 Bio-Technical Resources Major Business
 - 8.4.3 Bio-Technical Resources Microbial Strain Engineering Services Product and Services
 - 8.4.4 Bio-Technical Resources Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Bio-Technical Resources Recent Developments/Updates
 - 8.4.6 Bio-Technical Resources Competitive Strengths & Weaknesses
- 8.5 BRAIN Biotech
 - 8.5.1 BRAIN Biotech Details
 - 8.5.2 BRAIN Biotech Major Business
 - 8.5.3 BRAIN Biotech Microbial Strain Engineering Services Product and Services
 - 8.5.4 BRAIN Biotech Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.5.5 BRAIN Biotech Recent Developments/Updates
 - 8.5.6 BRAIN Biotech Competitive Strengths & Weaknesses
- 8.6 Colorifix

- 8.6.1 Colorifix Details
- 8.6.2 Colorifix Major Business
- 8.6.3 Colorifix Microbial Strain Engineering Services Product and Services
- 8.6.4 Colorifix Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
- 8.6.5 Colorifix Recent Developments/Updates
- 8.6.6 Colorifix Competitive Strengths & Weaknesses
- 8.7 Creative Biogene
 - 8.7.1 Creative Biogene Details
 - 8.7.2 Creative Biogene Major Business
 - 8.7.3 Creative Biogene Microbial Strain Engineering Services Product and Services
 - 8.7.4 Creative Biogene Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Creative Biogene Recent Developments/Updates
 - 8.7.6 Creative Biogene Competitive Strengths & Weaknesses
- 8.8 Creative Enzymes
 - 8.8.1 Creative Enzymes Details
 - 8.8.2 Creative Enzymes Major Business
 - 8.8.3 Creative Enzymes Microbial Strain Engineering Services Product and Services
 - 8.8.4 Creative Enzymes Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Creative Enzymes Recent Developments/Updates
 - 8.8.6 Creative Enzymes Competitive Strengths & Weaknesses
- 8.9 Esco Aster
 - 8.9.1 Esco Aster Details
 - 8.9.2 Esco Aster Major Business
 - 8.9.3 Esco Aster Microbial Strain Engineering Services Product and Services
 - 8.9.4 Esco Aster Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Esco Aster Recent Developments/Updates
 - 8.9.6 Esco Aster Competitive Strengths & Weaknesses
- 8.10 Novozymes
 - 8.10.1 Novozymes Details
 - 8.10.2 Novozymes Major Business
 - 8.10.3 Novozymes Microbial Strain Engineering Services Product and Services
 - 8.10.4 Novozymes Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Novozymes Recent Developments/Updates
 - 8.10.6 Novozymes Competitive Strengths & Weaknesses

8.11 Explogen

8.11.1 Explogen Details

8.11.2 Explogen Major Business

8.11.3 Explogen Microbial Strain Engineering Services Product and Services

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

8.11.5 Explogen Recent Developments/Updates

8.11.6 Explogen Competitive Strengths & Weaknesses

8.12 NCIMB

8.12.1 NCIMB Details

8.12.2 NCIMB Major Business

8.12.3 NCIMB Microbial Strain Engineering Services Product and Services

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

8.12.5 NCIMB Recent Developments/Updates

8.12.6 NCIMB Competitive Strengths & Weaknesses

8.13 Hamilton Company

8.13.1 Hamilton Company Details

8.13.2 Hamilton Company Major Business

8.13.3 Hamilton Company Microbial Strain Engineering Services Product and Services

8.13.4 Hamilton Company Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026)

8.13.5 Hamilton Company Recent Developments/Updates

8.13.6 Hamilton Company Competitive Strengths & Weaknesses

8.14 Isomerase

8.14.1 Isomerase Details

8.14.2 Isomerase Major Business

8.14.3 Isomerase Microbial Strain Engineering Services Product and Services

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

8.14.5 Isomerase Recent Developments/Updates

8.14.6 Isomerase Competitive Strengths & Weaknesses

8.15 LIVZYM Biotechnology

8.15.1 LIVZYM Biotechnology Details

8.15.2 LIVZYM Biotechnology Major Business

8.15.3 LIVZYM Biotechnology Microbial Strain Engineering Services Product and Services

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

8.15.5 LIVZYM Biotechnology Recent Developments/Updates

8.15.6 LIVZYM Biotechnology Competitive Strengths & Weaknesses

8.16 Lonza

8.16.1 Lonza Details

8.16.2 Lonza Major Business

8.16.3 Lonza Microbial Strain Engineering Services Product and Services

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

8.16.5 Lonza Recent Developments/Updates

8.16.6 Lonza Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Microbial Strain Engineering Services Industry Chain

9.2 Microbial Strain Engineering Services Upstream Analysis

9.3 Microbial Strain Engineering Services Midstream Analysis

9.4 Microbial Strain Engineering Services Downstream Analysis

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Microbial Strain Engineering Services Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Microbial Strain Engineering Services Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Microbial Strain Engineering Services Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Microbial Strain Engineering Services Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Microbial Strain Engineering Services Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Microbial Strain Engineering Services Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Microbial Strain Engineering Services Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Microbial Strain Engineering Services Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Microbial Strain Engineering Services Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Microbial Strain Engineering Services Players in 2025

Table 12. World Microbial Strain Engineering Services Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Microbial Strain Engineering Services Company Evaluation Quadrant

Table 14. Head Office of Key Microbial Strain Engineering Services Players

Table 15. Microbial Strain Engineering Services Market: Company Product Type Footprint

Table 16. Microbial Strain Engineering Services Market: Company Product Application Footprint

Table 17. Microbial Strain Engineering Services Mergers & Acquisitions Activity

Table 18. United States VS China Microbial Strain Engineering Services Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Microbial Strain Engineering Services Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Microbial Strain Engineering Services Companies,

Headquarters (States, Country)

Table 21. United States Based Companies Microbial Strain Engineering Services Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Microbial Strain Engineering Services Revenue Market Share (2021-2026)

Table 23. China Based Microbial Strain Engineering Services Companies, Headquarters (Province, Country)

Table 24. China Based Companies Microbial Strain Engineering Services Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Microbial Strain Engineering Services Revenue Market Share (2021-2026)

Table 26. Rest of World Based Microbial Strain Engineering Services Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Microbial Strain Engineering Services Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Microbial Strain Engineering Services Revenue Market Share (2021-2026)

Table 29. World Microbial Strain Engineering Services Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Microbial Strain Engineering Services Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Microbial Strain Engineering Services Market Size by Type (2027-2032) & (USD Million)

Table 32. World Microbial Strain Engineering Services Market Size by Target, (USD Million), 2021 & 2025 & 2032

Table 33. World Microbial Strain Engineering Services Market Size Value by Target (2021-2026) & (USD Million)

Table 34. World Microbial Strain Engineering Services Market Size by Target (2027-2032) & (USD Million)

Table 35. World Microbial Strain Engineering Services Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 36. World Microbial Strain Engineering Services Market Size by Application (2021-2026) & (USD Million)

Table 37. World Microbial Strain Engineering Services Market Size by Application (2027-2032) & (USD Million)

Table 38. Acies Bio Basic Information, Manufacturing Base and Competitors

Table 39. Acies Bio Major Business

Table 40. Acies Bio Microbial Strain Engineering Services Product and Services

Table 41. Acies Bio Microbial Strain Engineering Services Revenue, Gross Margin and

Market Share (2021-2026) & (USD Million)

Table 42. Acies Bio Recent Developments/Updates

Table 43. Acies Bio Competitive Strengths & Weaknesses

Table 44. Biocatalysts Basic Information, Manufacturing Base and Competitors

Table 45. Biocatalysts Major Business

Table 46. Biocatalysts Microbial Strain Engineering Services Product and Services

Table 47. Biocatalysts Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 48. Biocatalysts Recent Developments/Updates

Table 49. Biocatalysts Competitive Strengths & Weaknesses

Table 50. Biosynsis Basic Information, Manufacturing Base and Competitors

Table 51. Biosynsis Major Business

Table 52. Biosynsis Microbial Strain Engineering Services Product and Services

Table 53. Biosynsis Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 54. Biosynsis Recent Developments/Updates

Table 55. Biosynsis Competitive Strengths & Weaknesses

Table 56. Bio-Technical Resources Basic Information, Manufacturing Base and Competitors

Table 57. Bio-Technical Resources Major Business

Table 58. Bio-Technical Resources Microbial Strain Engineering Services Product and Services

Table 59. Bio-Technical Resources Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 60. Bio-Technical Resources Recent Developments/Updates

Table 61. Bio-Technical Resources Competitive Strengths & Weaknesses

Table 62. BRAIN Biotech Basic Information, Manufacturing Base and Competitors

Table 63. BRAIN Biotech Major Business

Table 64. BRAIN Biotech Microbial Strain Engineering Services Product and Services

Table 65. BRAIN Biotech Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 66. BRAIN Biotech Recent Developments/Updates

Table 67. BRAIN Biotech Competitive Strengths & Weaknesses

Table 68. Colorifix Basic Information, Manufacturing Base and Competitors

Table 69. Colorifix Major Business

Table 70. Colorifix Microbial Strain Engineering Services Product and Services

Table 71. Colorifix Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 72. Colorifix Recent Developments/Updates

- Table 73. Colorifix Competitive Strengths & Weaknesses
- Table 74. Creative Biogene Basic Information, Manufacturing Base and Competitors
- Table 75. Creative Biogene Major Business
- Table 76. Creative Biogene Microbial Strain Engineering Services Product and Services
- Table 77. Creative Biogene Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 78. Creative Biogene Recent Developments/Updates
- Table 79. Creative Biogene Competitive Strengths & Weaknesses
- Table 80. Creative Enzymes Basic Information, Manufacturing Base and Competitors
- Table 81. Creative Enzymes Major Business
- Table 82. Creative Enzymes Microbial Strain Engineering Services Product and Services
- Table 83. Creative Enzymes Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 84. Creative Enzymes Recent Developments/Updates
- Table 85. Creative Enzymes Competitive Strengths & Weaknesses
- Table 86. Esco Aster Basic Information, Manufacturing Base and Competitors
- Table 87. Esco Aster Major Business
- Table 88. Esco Aster Microbial Strain Engineering Services Product and Services
- Table 89. Esco Aster Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 90. Esco Aster Recent Developments/Updates
- Table 91. Esco Aster Competitive Strengths & Weaknesses
- Table 92. Novozymes Basic Information, Manufacturing Base and Competitors
- Table 93. Novozymes Major Business
- Table 94. Novozymes Microbial Strain Engineering Services Product and Services
- Table 95. Novozymes Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 96. Novozymes Recent Developments/Updates
- Table 97. Novozymes Competitive Strengths & Weaknesses
- Table 98. Explogen Basic Information, Manufacturing Base and Competitors
- Table 99. Explogen Major Business
- Table 100. Explogen Microbial Strain Engineering Services Product and Services
- Table 101. Explogen Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 102. Explogen Recent Developments/Updates
- Table 103. Explogen Competitive Strengths & Weaknesses
- Table 104. NCIMB Basic Information, Manufacturing Base and Competitors
- Table 105. NCIMB Major Business

- Table 106. NCIMB Microbial Strain Engineering Services Product and Services
- Table 107. NCIMB Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 108. NCIMB Recent Developments/Updates
- Table 109. NCIMB Competitive Strengths & Weaknesses
- Table 110. Hamilton Company Basic Information, Manufacturing Base and Competitors
- Table 111. Hamilton Company Major Business
- Table 112. Hamilton Company Microbial Strain Engineering Services Product and Services
- Table 113. Hamilton Company Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 114. Hamilton Company Recent Developments/Updates
- Table 115. Hamilton Company Competitive Strengths & Weaknesses
- Table 116. Isomerase Basic Information, Manufacturing Base and Competitors
- Table 117. Isomerase Major Business
- Table 118. Isomerase Microbial Strain Engineering Services Product and Services
- Table 119. Isomerase Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 120. Isomerase Recent Developments/Updates
- Table 121. Isomerase Competitive Strengths & Weaknesses
- Table 122. LIVZYM Biotechnology Basic Information, Manufacturing Base and Competitors
- Table 123. LIVZYM Biotechnology Major Business
- Table 124. LIVZYM Biotechnology Microbial Strain Engineering Services Product and Services
- Table 125. LIVZYM Biotechnology Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 126. LIVZYM Biotechnology Recent Developments/Updates
- Table 127. LIVZYM Biotechnology Competitive Strengths & Weaknesses
- Table 128. Lonza Basic Information, Manufacturing Base and Competitors
- Table 129. Lonza Major Business
- Table 130. Lonza Microbial Strain Engineering Services Product and Services
- Table 131. Lonza Microbial Strain Engineering Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 132. Lonza Recent Developments/Updates
- Table 133. Lonza Competitive Strengths & Weaknesses
- Table 134. Global Key Players of Microbial Strain Engineering Services Upstream (Raw Materials)
- Table 135. Global Microbial Strain Engineering Services Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Microbial Strain Engineering Services Picture

Figure 2. World Microbial Strain Engineering Services Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Microbial Strain Engineering Services Total Revenue (2021-2032) & (USD Million)

Figure 4. World Microbial Strain Engineering Services Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Microbial Strain Engineering Services Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Microbial Strain Engineering Services Revenue (2021-2032) & (USD Million)

Figure 13. Microbial Strain Engineering Services Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)

Figure 16. World Microbial Strain Engineering Services Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)

Figure 18. China Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)

- Figure 20. Japan Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)
- Figure 21. South Korea Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)
- Figure 22. ASEAN Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)
- Figure 23. India Microbial Strain Engineering Services Consumption Value (2021-2032) & (USD Million)
- Figure 24. Producer Shipments of Microbial Strain Engineering Services by Player Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Microbial Strain Engineering Services Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Microbial Strain Engineering Services Markets in 2025
- Figure 27. United States VS China: Microbial Strain Engineering Services Revenue Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Microbial Strain Engineering Services Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. World Microbial Strain Engineering Services Market Size by Type, (USD Million), 2021 & 2025 & 2032
- Figure 30. World Microbial Strain Engineering Services Market Size Market Share by Type in 2025
- Figure 31. Strains Screening and Domestication Services
- Figure 32. Gene Editing and Synthesis Services
- Figure 33. Metabolic Pathway Reconstruction Services
- Figure 34. Others
- Figure 35. World Microbial Strain Engineering Services Market Size Market Share by Type (2021-2032)
- Figure 36. World Microbial Strain Engineering Services Market Size by Target, (USD Million), 2021 & 2025 & 2032
- Figure 37. World Microbial Strain Engineering Services Market Size Market Share by Target in 2025
- Figure 38. Yield-Enhancing
- Figure 39. Substrate-Expanding
- Figure 40. Tolerance-Enhancing
- Figure 41. Others
- Figure 42. World Microbial Strain Engineering Services Market Size Market Share by Target (2021-2032)
- Figure 43. World Microbial Strain Engineering Services Market Size by Application,

(USD Million), 2021 & 2025 & 2032

Figure 44. World Microbial Strain Engineering Services Market Size Market Share by Application in 2025

Figure 45. Biopharmaceuticals

Figure 46. Food and Ingredients

Figure 47. Agriculture and Environment

Figure 48. Energy and Materials

Figure 49. Others

Figure 50. World Microbial Strain Engineering Services Market Size Market Share by Application (2021-2032)

Figure 51. Microbial Strain Engineering Services Industrial Chain

Figure 52. Methodology

Figure 53. Research Process and Data Source

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