

Global Biomanufacturing in Consumer Chemicals Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Biomanufacturing in Consumer Chemicals market size is predicted to grow from US\$ 3302 million in 2025 to US\$ 6450 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

Biomanufacturing in the consumer chemicals industry refers to the introduction of biotechnology routes such as fermentation, enzymatic methods, biotransformation, and cell factories into the production of cosmetics and daily chemical raw materials. This replaces or supplements traditional animal-derived, plant-extracted, and petrochemical synthesis processes, resulting in more controllable molecular structures, more stable batch consistency, and a more traceable supply chain. It covers not only 'functional active ingredients' (such as hyaluronic acid, recombinant collagen, peptides, ectoine, ergothioneine, etc.) but is also gradually extending to 'material-type raw materials' (such as bio-surfactants, bio-based solvents, structured lipids/fermented oils, biodegradable additives, etc.), forming different application paths in specific scenarios such as skincare, hair care, household cleaning, fragrance, and oral/feminine hygiene. Essentially, biomanufacturing is not simply about 'being more natural,' but rather about using engineering methods to transform raw material production from an uncertain resource-dependent process into a designable, scalable, and auditable industrial system.

The penetration of biomanufacturing into the consumer personal care industry is not simply about 'replacing a chemical raw material with a fermentation raw material,' but rather exhibits a clear trend towards platformization: upstream, microbial cell factories and enzyme engineering are at the core, while downstream separation and purification gradually form a standardized module that can be reused: 'baseline strains?metabolic pathways?scale-up processes?quality systems?regulatory documentation packages.'

This results in industry competition no longer revolving solely around a single blockbuster raw material, but rather around 'whether the same platform can continuously launch new molecules, whether it can be stably replicated under the same quality system, and whether it can quickly adapt to the formulations and claims of different brands.' Simultaneously, the value of biomanufacturing has expanded from 'cost substitution' to 'certain supply and sustainability': against the backdrop of fluctuating crop yields, unstable natural extraction capacity, and limited animal sources, fermentation and enzymatic methods provide a more controllable supply chain and more consistent batch quality, thereby supporting brands in long-term product iteration in efficacy and skin feel. More importantly, this platformization capability enables raw material companies to evolve towards an integrated model of 'raw materials + technical services + compliance documentation + application formulation,' driving the division of labor in the industry chain from traditional raw material trading to solution delivery, thereby shifting industry influence upwards.

The increased global acceptance of biomanufacturing in personal care products reflects a structural shift in the evaluation system: raw materials are no longer simply categorized as 'natural/synthetic,' but are increasingly being weighed within a three-dimensional framework: 'source (raw material carbon source/bio-based properties) ? process (fermentation/enzymatic/recombinant expression/chemical transformation) ? performance (purity, isomerism, impurity profile, stability, skin feel).' For brands, the key is not 'whether it's fermented,' but whether the route can support their efficacy claims, ensure a stable supply, and establish demonstrable safety and repeatable quality control within a regulatory framework. This has led to a more realistic industry stratification: biomanufacturing has become a standard process for some raw materials (such as polysaccharides, some organic acids, and some vitamins); another type of raw material (such as recombinant proteins/peptides, certain rare small-molecule antioxidants, and specific lipids and surfactant systems) is transitioning from 'high-end demonstration' to 'mass market penetration'; and some raw materials are more likely to adopt a hybrid route of 'biomanufacturing intermediates + chemical transformation and purification' in the long term to achieve the optimal solution between cost, purity, and regulatory compliance. In other words, biomanufacturing is not a single track, but a manufacturing toolbox that can be 'called upon as needed' by different raw material categories.

In the actual product system of consumer personal care, the user experience is often determined not by a single star active ingredient, but by the 'overall synergy of the formulation system.' The spillover effects of biomanufacturing are particularly significant at this level: First, surfactants and co-surfactant systems are beginning to see bio-based

substitution and functional upgrades, aiming to simultaneously meet the requirements of gentleness, foaming, detergency, and biodegradability, thereby driving the iteration of hair care and household cleaning products towards 'no performance degradation and lower irritation'; Second, fermentation filtrates, yeast extracts, and post-biotic related ingredients have strengthened the product characteristics of 'microecological friendliness' and 'barrier conditioning' in skincare, but the industry is also gradually shifting from conceptual competition to empirical requirements for process parameters, strain differences, metabolite profiles, and quality consistency; Third, biomanufacturing improves the 'designability' of raw materials, for example, by controlling the process to achieve different molecular weight distributions, different fatty acid side chains, and different isomer ratios, thereby further blurring the boundaries between raw material development and formulation development. Ultimately, biomanufacturing's contribution to the industry goes beyond simply providing new raw materials; it lies in promoting integrated collaborative innovation across 'raw materials, formulations, efficacy, and compliance,' thereby creating stronger product iteration capabilities and higher R&D barriers.

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

This Insight Report provides a comprehensive analysis of the global Biomanufacturing in Consumer Chemicals 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 Biomanufacturing in Consumer Chemicals portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Biomanufacturing in Consumer Chemicals market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Biomanufacturing in Consumer Chemicals 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 Biomanufacturing in Consumer Chemicals.

This report presents a comprehensive overview, market shares, and growth opportunities of Biomanufacturing in Consumer Chemicals market by product type, application, key players and key regions and countries.

Segmentation by Type:

Bio-fermentation Single Raw Materials

Bio-fermentation Mixed Raw Materials

Enzymatic Hydrolysis Raw Materials

Segmentation by Technology:

Precision Fermentation

Biochemical Combination

Enzymatic Hydrolysis

Segmentation by Application:

Skincare

Makeup

Shampoo & Conditioner

Fragrance

Home Care

Other

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.

Evonik

Bloomage Biotechnology

Givaudan

Croda

Symrise AG

Lushang Freda Pharmaceutical

Kewpie Corporation

SILAB

TOYOBO

Jiangsu JLand Biotech

Contipro Inc.

Jiangsu Chuangjian Medical Technology

Anhui Huaheng Biotechnology

Shandong Topscience Biotech

Shandong AWA Biopharm

Syensqo

Senruis Biotechnology

Technoble Co., Ltd.

Wuhu Interferon Bio-products Industry Research Institute

TS-Biotech

HTL Biotechnology

INKOS

Shanxi Jinbo Bio-Pharmaceutical

Yili Chuanning Biotechnology

Zhihe Bio

Hubei Magic Health Technology

Vedan Biotechnology

Locus Ingredients

Luckerkong

GuangZhou MeiZhong Biological

Shandong Jincheng Biological Pharmaceutical

Kyowa Hakko Bio

GeneHarbor (Yuyao) Lifespan Health Technology

Shenzhen Siyomicro Bio-Tech

Holiferm

Genelll

GSH Bio-Tech

Shenzhen Readline Biotech

Allied Carbon Solutions

Cornigs

XI`AN Sobeo Biotech

Hebei Nacol Biotechnology

EffePharm (Shanghai) Co

Jeneil Biotech

Jiangsu Youjie Biotechnology

Shenzhen Winkey Technology

Xuankai Biotechnology

Bontac Bio-Engineering

Giant Biogene Holding Co

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 Biomanufacturing in Consumer Chemicals Market Size (2021-2032)
- 2.1.2 Biomanufacturing in Consumer Chemicals Market Size CAGR by Region (2021 VS 2025 VS 2032)
- 2.1.3 World Current & Future Analysis for Biomanufacturing in Consumer Chemicals by Country/Region (2021, 2025 & 2032)

2.2 Biomanufacturing in Consumer Chemicals Segment by Type

- 2.2.1 Bio-fermentation Single Raw Materials
- 2.2.2 Bio-fermentation Mixed Raw Materials
- 2.2.3 Enzymatic Hydrolysis Raw Materials
- 2.2.4 Biomanufacturing in Consumer Chemicals Market Size by Type
 - 2.2.4.1 Biomanufacturing in Consumer Chemicals Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.4.2 Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Type (2021-2026)

2.3 Biomanufacturing in Consumer Chemicals Segment by Technology

- 2.3.1 Precision Fermentation
- 2.3.2 Biochemical Combination
- 2.3.3 Enzymatic Hydrolysis
- 2.3.4 Biomanufacturing in Consumer Chemicals Market Size by Technology
 - 2.3.4.1 Biomanufacturing in Consumer Chemicals Market Size CAGR by Technology (2021 VS 2025 VS 2032)
 - 2.3.4.2 Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Technology (2021-2026)

2.4 Biomanufacturing in Consumer Chemicals Segment by Application

2.4.1 Skincare

2.4.2 Makeup

2.4.3 Shampoo & Conditioner

2.4.4 Fragrance

2.4.5 Home Care

2.4.6 Other

2.4.7 Biomanufacturing in Consumer Chemicals Market Size by Application

2.4.7.1 Biomanufacturing in Consumer Chemicals Market Size CAGR by Application
(2021 VS 2025 VS 2032)

2.4.7.2 Global Biomanufacturing in Consumer Chemicals Market Size Market Share
by Application (2021-2026)

3 BIOMANUFACTURING IN CONSUMER CHEMICALS MARKET SIZE BY PLAYER

3.1 Biomanufacturing in Consumer Chemicals Market Size Market Share by Player

3.1.1 Global Biomanufacturing in Consumer Chemicals Revenue by Player
(2021-2026)

3.1.2 Global Biomanufacturing in Consumer Chemicals Revenue Market Share by
Player (2021-2026)

3.2 Global Biomanufacturing in Consumer Chemicals 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 BIOMANUFACTURING IN CONSUMER CHEMICALS BY REGION

4.1 Biomanufacturing in Consumer Chemicals Market Size by Region (2021-2026)

4.2 Global Biomanufacturing in Consumer Chemicals Annual Revenue by
Country/Region (2021-2026)

4.3 Americas Biomanufacturing in Consumer Chemicals Market Size Growth
(2021-2026)

4.4 APAC Biomanufacturing in Consumer Chemicals Market Size Growth (2021-2026)

4.5 Europe Biomanufacturing in Consumer Chemicals Market Size Growth (2021-2026)

4.6 Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size Growth
(2021-2026)

5 AMERICAS

5.1 Americas Biomanufacturing in Consumer Chemicals Market Size by Country (2021-2026)

5.2 Americas Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026)

5.3 Americas Biomanufacturing in Consumer Chemicals Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Biomanufacturing in Consumer Chemicals Market Size by Region (2021-2026)

6.2 APAC Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026)

6.3 APAC Biomanufacturing in Consumer Chemicals 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 Biomanufacturing in Consumer Chemicals Market Size by Country (2021-2026)

7.2 Europe Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026)

7.3 Europe Biomanufacturing in Consumer Chemicals 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 Biomanufacturing in Consumer Chemicals by Region (2021-2026)

8.2 Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026)

8.3 Middle East & Africa Biomanufacturing in Consumer Chemicals 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 BIOMANUFACTURING IN CONSUMER CHEMICALS MARKET FORECAST

10.1 Global Biomanufacturing in Consumer Chemicals Forecast by Region (2027-2032)

10.1.1 Global Biomanufacturing in Consumer Chemicals Forecast by Region (2027-2032)

10.1.2 Americas Biomanufacturing in Consumer Chemicals Forecast

10.1.3 APAC Biomanufacturing in Consumer Chemicals Forecast

10.1.4 Europe Biomanufacturing in Consumer Chemicals Forecast

10.1.5 Middle East & Africa Biomanufacturing in Consumer Chemicals Forecast

10.2 Americas Biomanufacturing in Consumer Chemicals Forecast by Country (2027-2032)

10.2.1 United States Market Biomanufacturing in Consumer Chemicals Forecast

10.2.2 Canada Market Biomanufacturing in Consumer Chemicals Forecast

10.2.3 Mexico Market Biomanufacturing in Consumer Chemicals Forecast

10.2.4 Brazil Market Biomanufacturing in Consumer Chemicals Forecast

10.3 APAC Biomanufacturing in Consumer Chemicals Forecast by Region (2027-2032)

- 10.3.1 China Biomanufacturing in Consumer Chemicals Market Forecast
- 10.3.2 Japan Market Biomanufacturing in Consumer Chemicals Forecast
- 10.3.3 Korea Market Biomanufacturing in Consumer Chemicals Forecast
- 10.3.4 Southeast Asia Market Biomanufacturing in Consumer Chemicals Forecast
- 10.3.5 India Market Biomanufacturing in Consumer Chemicals Forecast
- 10.3.6 Australia Market Biomanufacturing in Consumer Chemicals Forecast
- 10.4 Europe Biomanufacturing in Consumer Chemicals Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.4.2 France Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.4.3 UK Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.4.4 Italy Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.4.5 Russia Market Biomanufacturing in Consumer Chemicals Forecast
- 10.5 Middle East & Africa Biomanufacturing in Consumer Chemicals Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.5.2 South Africa Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.5.3 Israel Market Biomanufacturing in Consumer Chemicals Forecast
 - 10.5.4 Turkey Market Biomanufacturing in Consumer Chemicals Forecast
- 10.6 Global Biomanufacturing in Consumer Chemicals Forecast by Type (2027-2032)
- 10.7 Global Biomanufacturing in Consumer Chemicals Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Biomanufacturing in Consumer Chemicals Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 Evonik
 - 11.1.1 Evonik Company Information
 - 11.1.2 Evonik Biomanufacturing in Consumer Chemicals Product Offered
 - 11.1.3 Evonik Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.1.4 Evonik Main Business Overview
 - 11.1.5 Evonik Latest Developments
- 11.2 Bloomage Biotechnology
 - 11.2.1 Bloomage Biotechnology Company Information
 - 11.2.2 Bloomage Biotechnology Biomanufacturing in Consumer Chemicals Product Offered
 - 11.2.3 Bloomage Biotechnology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

- 11.2.4 Bloomage Biotechnology Main Business Overview
- 11.2.5 Bloomage Biotechnology Latest Developments
- 11.3 Givaudan
 - 11.3.1 Givaudan Company Information
 - 11.3.2 Givaudan Biomanufacturing in Consumer Chemicals Product Offered
 - 11.3.3 Givaudan Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 Givaudan Main Business Overview
 - 11.3.5 Givaudan Latest Developments
- 11.4 Croda
 - 11.4.1 Croda Company Information
 - 11.4.2 Croda Biomanufacturing in Consumer Chemicals Product Offered
 - 11.4.3 Croda Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Croda Main Business Overview
 - 11.4.5 Croda Latest Developments
- 11.5 Symrise AG
 - 11.5.1 Symrise AG Company Information
 - 11.5.2 Symrise AG Biomanufacturing in Consumer Chemicals Product Offered
 - 11.5.3 Symrise AG Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Symrise AG Main Business Overview
 - 11.5.5 Symrise AG Latest Developments
- 11.6 Lushang Freda Pharmaceutical
 - 11.6.1 Lushang Freda Pharmaceutical Company Information
 - 11.6.2 Lushang Freda Pharmaceutical Biomanufacturing in Consumer Chemicals Product Offered
 - 11.6.3 Lushang Freda Pharmaceutical Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 Lushang Freda Pharmaceutical Main Business Overview
 - 11.6.5 Lushang Freda Pharmaceutical Latest Developments
- 11.7 Kewpie Corporation
 - 11.7.1 Kewpie Corporation Company Information
 - 11.7.2 Kewpie Corporation Biomanufacturing in Consumer Chemicals Product Offered
 - 11.7.3 Kewpie Corporation Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Kewpie Corporation Main Business Overview
 - 11.7.5 Kewpie Corporation Latest Developments
- 11.8 SILAB

- 11.8.1 SILAB Company Information
- 11.8.2 SILAB Biomanufacturing in Consumer Chemicals Product Offered
- 11.8.3 SILAB Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
- 11.8.4 SILAB Main Business Overview
- 11.8.5 SILAB Latest Developments
- 11.9 TOYOBO
 - 11.9.1 TOYOBO Company Information
 - 11.9.2 TOYOBO Biomanufacturing in Consumer Chemicals Product Offered
 - 11.9.3 TOYOBO Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 TOYOBO Main Business Overview
 - 11.9.5 TOYOBO Latest Developments
- 11.10 Jiangsu JLand Biotech
 - 11.10.1 Jiangsu JLand Biotech Company Information
 - 11.10.2 Jiangsu JLand Biotech Biomanufacturing in Consumer Chemicals Product Offered
 - 11.10.3 Jiangsu JLand Biotech Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Jiangsu JLand Biotech Main Business Overview
 - 11.10.5 Jiangsu JLand Biotech Latest Developments
- 11.11 Contipro Inc.
 - 11.11.1 Contipro Inc. Company Information
 - 11.11.2 Contipro Inc. Biomanufacturing in Consumer Chemicals Product Offered
 - 11.11.3 Contipro Inc. Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Contipro Inc. Main Business Overview
 - 11.11.5 Contipro Inc. Latest Developments
- 11.12 Jiangsu Chuangjian Medical Technology
 - 11.12.1 Jiangsu Chuangjian Medical Technology Company Information
 - 11.12.2 Jiangsu Chuangjian Medical Technology Biomanufacturing in Consumer Chemicals Product Offered
 - 11.12.3 Jiangsu Chuangjian Medical Technology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Jiangsu Chuangjian Medical Technology Main Business Overview
 - 11.12.5 Jiangsu Chuangjian Medical Technology Latest Developments
- 11.13 Anhui Huaheng Biotechnology
 - 11.13.1 Anhui Huaheng Biotechnology Company Information
 - 11.13.2 Anhui Huaheng Biotechnology Biomanufacturing in Consumer Chemicals

Product Offered

11.13.3 Anhui Huaheng Biotechnology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.13.4 Anhui Huaheng Biotechnology Main Business Overview

11.13.5 Anhui Huaheng Biotechnology Latest Developments

11.14 Shandong Topscience Biotech

11.14.1 Shandong Topscience Biotech Company Information

11.14.2 Shandong Topscience Biotech Biomanufacturing in Consumer Chemicals Product Offered

11.14.3 Shandong Topscience Biotech Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.14.4 Shandong Topscience Biotech Main Business Overview

11.14.5 Shandong Topscience Biotech Latest Developments

11.15 Shandong AWA Biopharm

11.15.1 Shandong AWA Biopharm Company Information

11.15.2 Shandong AWA Biopharm Biomanufacturing in Consumer Chemicals Product Offered

11.15.3 Shandong AWA Biopharm Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.15.4 Shandong AWA Biopharm Main Business Overview

11.15.5 Shandong AWA Biopharm Latest Developments

11.16 Syensqo

11.16.1 Syensqo Company Information

11.16.2 Syensqo Biomanufacturing in Consumer Chemicals Product Offered

11.16.3 Syensqo Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.16.4 Syensqo Main Business Overview

11.16.5 Syensqo Latest Developments

11.17 Senruis Biotechnology

11.17.1 Senruis Biotechnology Company Information

11.17.2 Senruis Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

11.17.3 Senruis Biotechnology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.17.4 Senruis Biotechnology Main Business Overview

11.17.5 Senruis Biotechnology Latest Developments

11.18 Technoble Co., Ltd.

11.18.1 Technoble Co., Ltd. Company Information

11.18.2 Technoble Co., Ltd. Biomanufacturing in Consumer Chemicals Product

Offered

11.18.3 Technoble Co., Ltd. Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.18.4 Technoble Co., Ltd. Main Business Overview

11.18.5 Technoble Co., Ltd. Latest Developments

11.19 Wuhu Interferon Bio-products Industry Research Institute

11.19.1 Wuhu Interferon Bio-products Industry Research Institute Company Information

11.19.2 Wuhu Interferon Bio-products Industry Research Institute Biomanufacturing in Consumer Chemicals Product Offered

11.19.3 Wuhu Interferon Bio-products Industry Research Institute Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.19.4 Wuhu Interferon Bio-products Industry Research Institute Main Business Overview

11.19.5 Wuhu Interferon Bio-products Industry Research Institute Latest Developments

11.20 TS-Biotech

11.20.1 TS-Biotech Company Information

11.20.2 TS-Biotech Biomanufacturing in Consumer Chemicals Product Offered

11.20.3 TS-Biotech Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.20.4 TS-Biotech Main Business Overview

11.20.5 TS-Biotech Latest Developments

11.21 HTL Biotechnology

11.21.1 HTL Biotechnology Company Information

11.21.2 HTL Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

11.21.3 HTL Biotechnology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.21.4 HTL Biotechnology Main Business Overview

11.21.5 HTL Biotechnology Latest Developments

11.22 INKOS

11.22.1 INKOS Company Information

11.22.2 INKOS Biomanufacturing in Consumer Chemicals Product Offered

11.22.3 INKOS Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.22.4 INKOS Main Business Overview

11.22.5 INKOS Latest Developments

11.23 Shanxi Jinbo Bio-Pharmaceutical

11.23.1 Shanxi Jinbo Bio-Pharmaceutical Company Information

11.23.2 Shanxi Jinbo Bio-Pharmaceutical Biomanufacturing in Consumer Chemicals Product Offered

11.23.3 Shanxi Jinbo Bio-Pharmaceutical Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.23.4 Shanxi Jinbo Bio-Pharmaceutical Main Business Overview

11.23.5 Shanxi Jinbo Bio-Pharmaceutical Latest Developments

11.24 Yili Chuanning Biotechnology

11.24.1 Yili Chuanning Biotechnology Company Information

11.24.2 Yili Chuanning Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

11.24.3 Yili Chuanning Biotechnology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.24.4 Yili Chuanning Biotechnology Main Business Overview

11.24.5 Yili Chuanning Biotechnology Latest Developments

11.25 Zhihe Bio

11.25.1 Zhihe Bio Company Information

11.25.2 Zhihe Bio Biomanufacturing in Consumer Chemicals Product Offered

11.25.3 Zhihe Bio Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.25.4 Zhihe Bio Main Business Overview

11.25.5 Zhihe Bio Latest Developments

11.26 Hubei Magic Health Technology

11.26.1 Hubei Magic Health Technology Company Information

11.26.2 Hubei Magic Health Technology Biomanufacturing in Consumer Chemicals Product Offered

11.26.3 Hubei Magic Health Technology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.26.4 Hubei Magic Health Technology Main Business Overview

11.26.5 Hubei Magic Health Technology Latest Developments

11.27 Vedan Biotechnology

11.27.1 Vedan Biotechnology Company Information

11.27.2 Vedan Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

11.27.3 Vedan Biotechnology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.27.4 Vedan Biotechnology Main Business Overview

11.27.5 Vedan Biotechnology Latest Developments

11.28 Locus Ingredients

11.28.1 Locus Ingredients Company Information

- 11.28.2 Locus Ingredients Biomanufacturing in Consumer Chemicals Product Offered
- 11.28.3 Locus Ingredients Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
- 11.28.4 Locus Ingredients Main Business Overview
- 11.28.5 Locus Ingredients Latest Developments
- 11.29 Luckerkong
 - 11.29.1 Luckerkong Company Information
 - 11.29.2 Luckerkong Biomanufacturing in Consumer Chemicals Product Offered
 - 11.29.3 Luckerkong Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.29.4 Luckerkong Main Business Overview
 - 11.29.5 Luckerkong Latest Developments
- 11.30 GuangZhou MeiZhong Biological
 - 11.30.1 GuangZhou MeiZhong Biological Company Information
 - 11.30.2 GuangZhou MeiZhong Biological Biomanufacturing in Consumer Chemicals Product Offered
 - 11.30.3 GuangZhou MeiZhong Biological Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.30.4 GuangZhou MeiZhong Biological Main Business Overview
 - 11.30.5 GuangZhou MeiZhong Biological Latest Developments
- 11.31 Shandong Jincheng Biological Pharmaceutical
 - 11.31.1 Shandong Jincheng Biological Pharmaceutical Company Information
 - 11.31.2 Shandong Jincheng Biological Pharmaceutical Biomanufacturing in Consumer Chemicals Product Offered
 - 11.31.3 Shandong Jincheng Biological Pharmaceutical Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.31.4 Shandong Jincheng Biological Pharmaceutical Main Business Overview
 - 11.31.5 Shandong Jincheng Biological Pharmaceutical Latest Developments
- 11.32 Kyowa Hakko Bio
 - 11.32.1 Kyowa Hakko Bio Company Information
 - 11.32.2 Kyowa Hakko Bio Biomanufacturing in Consumer Chemicals Product Offered
 - 11.32.3 Kyowa Hakko Bio Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.32.4 Kyowa Hakko Bio Main Business Overview
 - 11.32.5 Kyowa Hakko Bio Latest Developments
- 11.33 GeneHarbor (Yuyao) Lifespan Health Technology
 - 11.33.1 GeneHarbor (Yuyao) Lifespan Health Technology Company Information
 - 11.33.2 GeneHarbor (Yuyao) Lifespan Health Technology Biomanufacturing in Consumer Chemicals Product Offered

- 11.33.3 GeneHarbor (Yuyao) Lifespan Health Technology Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
- 11.33.4 GeneHarbor (Yuyao) Lifespan Health Technology Main Business Overview
- 11.33.5 GeneHarbor (Yuyao) Lifespan Health Technology Latest Developments
- 11.34 Shenzhen Siyomicro Bio-Tech
 - 11.34.1 Shenzhen Siyomicro Bio-Tech Company Information
 - 11.34.2 Shenzhen Siyomicro Bio-Tech Biomanufacturing in Consumer Chemicals Product Offered
 - 11.34.3 Shenzhen Siyomicro Bio-Tech Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.34.4 Shenzhen Siyomicro Bio-Tech Main Business Overview
 - 11.34.5 Shenzhen Siyomicro Bio-Tech Latest Developments
- 11.35 Holiform
 - 11.35.1 Holiform Company Information
 - 11.35.2 Holiform Biomanufacturing in Consumer Chemicals Product Offered
 - 11.35.3 Holiform Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.35.4 Holiform Main Business Overview
 - 11.35.5 Holiform Latest Developments
- 11.36 Genelll
 - 11.36.1 Genelll Company Information
 - 11.36.2 Genelll Biomanufacturing in Consumer Chemicals Product Offered
 - 11.36.3 Genelll Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.36.4 Genelll Main Business Overview
 - 11.36.5 Genelll Latest Developments
- 11.37 GSH Bio-Tech
 - 11.37.1 GSH Bio-Tech Company Information
 - 11.37.2 GSH Bio-Tech Biomanufacturing in Consumer Chemicals Product Offered
 - 11.37.3 GSH Bio-Tech Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)
 - 11.37.4 GSH Bio-Tech Main Business Overview
 - 11.37.5 GSH Bio-Tech Latest Developments
- 11.38 Shenzhen Readline Biotech
 - 11.38.1 Shenzhen Readline Biotech Company Information
 - 11.38.2 Shenzhen Readline Biotech Biomanufacturing in Consumer Chemicals Product Offered
 - 11.38.3 Shenzhen Readline Biotech Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.38.4 Shenzhen Readline Biotech Main Business Overview

11.38.5 Shenzhen Readline Biotech Latest Developments

11.39 Allied Carbon Solutions

11.39.1 Allied Carbon Solutions Company Information

11.39.2 Allied Carbon Solutions Biomanufacturing in Consumer Chemicals Product Offered

11.39.3 Allied Carbon Solutions Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.39.4 Allied Carbon Solutions Main Business Overview

11.39.5 Allied Carbon Solutions Latest Developments

11.40 Cornigs

11.40.1 Cornigs Company Information

11.40.2 Cornigs Biomanufacturing in Consumer Chemicals Product Offered

11.40.3 Cornigs Biomanufacturing in Consumer Chemicals Revenue, Gross Margin and Market Share (2021-2026)

11.40.4 Cornigs Main Business Overview

11.40.5 Cornigs Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Biomanufacturing in Consumer Chemicals Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Biomanufacturing in Consumer Chemicals Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Bio-fermentation Single Raw Materials

Table 4. Major Players of Bio-fermentation Mixed Raw Materials

Table 5. Major Players of Enzymatic Hydrolysis Raw Materials

Table 6. Biomanufacturing in Consumer Chemicals Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 7. Global Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026) & (\$ millions)

Table 8. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Type (2021-2026)

Table 9. Major Players of Precision Fermentation

Table 10. Major Players of Biochemical Combination

Table 11. Major Players of Enzymatic Hydrolysis

Table 12. Biomanufacturing in Consumer Chemicals Market Size CAGR by Technology (2021 VS 2025 VS 2032) & (\$ millions)

Table 13. Global Biomanufacturing in Consumer Chemicals Market Size by Technology (2021-2026) & (\$ millions)

Table 14. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Technology (2021-2026)

Table 15. Biomanufacturing in Consumer Chemicals Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 16. Global Biomanufacturing in Consumer Chemicals Market Size by Application (2021-2026) & (\$ millions)

Table 17. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Application (2021-2026)

Table 18. Global Biomanufacturing in Consumer Chemicals Revenue by Player (2021-2026) & (\$ millions)

Table 19. Global Biomanufacturing in Consumer Chemicals Revenue Market Share by Player (2021-2026)

Table 20. Biomanufacturing in Consumer Chemicals Key Players Head office and Products Offered

Table 21. Biomanufacturing in Consumer Chemicals Concentration Ratio (CR3, CR5

and CR10) & (2024-2026)

Table 22. New Products and Potential Entrants

Table 23. Mergers & Acquisitions, Expansion

Table 24. Global Biomanufacturing in Consumer Chemicals Market Size by Region (2021-2026) & (\$ millions)

Table 25. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Region (2021-2026)

Table 26. Global Biomanufacturing in Consumer Chemicals Revenue by Country/Region (2021-2026) & (\$ millions)

Table 27. Global Biomanufacturing in Consumer Chemicals Revenue Market Share by Country/Region (2021-2026)

Table 28. Americas Biomanufacturing in Consumer Chemicals Market Size by Country (2021-2026) & (\$ millions)

Table 29. Americas Biomanufacturing in Consumer Chemicals Market Size Market Share by Country (2021-2026)

Table 30. Americas Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026) & (\$ millions)

Table 31. Americas Biomanufacturing in Consumer Chemicals Market Size Market Share by Type (2021-2026)

Table 32. Americas Biomanufacturing in Consumer Chemicals Market Size by Application (2021-2026) & (\$ millions)

Table 33. Americas Biomanufacturing in Consumer Chemicals Market Size Market Share by Application (2021-2026)

Table 34. APAC Biomanufacturing in Consumer Chemicals Market Size by Region (2021-2026) & (\$ millions)

Table 35. APAC Biomanufacturing in Consumer Chemicals Market Size Market Share by Region (2021-2026)

Table 36. APAC Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026) & (\$ millions)

Table 37. APAC Biomanufacturing in Consumer Chemicals Market Size by Application (2021-2026) & (\$ millions)

Table 38. Europe Biomanufacturing in Consumer Chemicals Market Size by Country (2021-2026) & (\$ millions)

Table 39. Europe Biomanufacturing in Consumer Chemicals Market Size Market Share by Country (2021-2026)

Table 40. Europe Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026) & (\$ millions)

Table 41. Europe Biomanufacturing in Consumer Chemicals Market Size by Application (2021-2026) & (\$ millions)

Table 42. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size by Region (2021-2026) & (\$ millions)

Table 43. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size by Type (2021-2026) & (\$ millions)

Table 44. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size by Application (2021-2026) & (\$ millions)

Table 45. Key Market Drivers & Growth Opportunities of Biomanufacturing in Consumer Chemicals

Table 46. Key Market Challenges & Risks of Biomanufacturing in Consumer Chemicals

Table 47. Key Industry Trends of Biomanufacturing in Consumer Chemicals

Table 48. Global Biomanufacturing in Consumer Chemicals Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 49. Global Biomanufacturing in Consumer Chemicals Market Size Market Share Forecast by Region (2027-2032)

Table 50. Global Biomanufacturing in Consumer Chemicals Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 51. Global Biomanufacturing in Consumer Chemicals Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 52. Evonik Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 53. Evonik Biomanufacturing in Consumer Chemicals Product Offered

Table 54. Evonik Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 55. Evonik Main Business

Table 56. Evonik Latest Developments

Table 57. Bloomage Biotechnology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 58. Bloomage Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

Table 59. Bloomage Biotechnology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 60. Bloomage Biotechnology Main Business

Table 61. Bloomage Biotechnology Latest Developments

Table 62. Givaudan Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 63. Givaudan Biomanufacturing in Consumer Chemicals Product Offered

Table 64. Givaudan Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 65. Givaudan Main Business

Table 66. Givaudan Latest Developments
Table 67. Croda Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors
Table 68. Croda Biomanufacturing in Consumer Chemicals Product Offered
Table 69. Croda Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 70. Croda Main Business
Table 71. Croda Latest Developments
Table 72. Symrise AG Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors
Table 73. Symrise AG Biomanufacturing in Consumer Chemicals Product Offered
Table 74. Symrise AG Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 75. Symrise AG Main Business
Table 76. Symrise AG Latest Developments
Table 77. Lushang Freda Pharmaceutical Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors
Table 78. Lushang Freda Pharmaceutical Biomanufacturing in Consumer Chemicals Product Offered
Table 79. Lushang Freda Pharmaceutical Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 80. Lushang Freda Pharmaceutical Main Business
Table 81. Lushang Freda Pharmaceutical Latest Developments
Table 82. Kewpie Corporation Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors
Table 83. Kewpie Corporation Biomanufacturing in Consumer Chemicals Product Offered
Table 84. Kewpie Corporation Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 85. Kewpie Corporation Main Business
Table 86. Kewpie Corporation Latest Developments
Table 87. SILAB Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors
Table 88. SILAB Biomanufacturing in Consumer Chemicals Product Offered
Table 89. SILAB Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 90. SILAB Main Business
Table 91. SILAB Latest Developments
Table 92. TOYOBO Details, Company Type, Biomanufacturing in Consumer Chemicals

Area Served and Its Competitors

Table 93. TOYOBO Biomanufacturing in Consumer Chemicals Product Offered

Table 94. TOYOBO Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. TOYOBO Main Business

Table 96. TOYOBO Latest Developments

Table 97. Jiangsu JLand Biotech Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 98. Jiangsu JLand Biotech Biomanufacturing in Consumer Chemicals Product Offered

Table 99. Jiangsu JLand Biotech Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. Jiangsu JLand Biotech Main Business

Table 101. Jiangsu JLand Biotech Latest Developments

Table 102. Contipro Inc. Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 103. Contipro Inc. Biomanufacturing in Consumer Chemicals Product Offered

Table 104. Contipro Inc. Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. Contipro Inc. Main Business

Table 106. Contipro Inc. Latest Developments

Table 107. Jiangsu Chuangjian Medical Technology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 108. Jiangsu Chuangjian Medical Technology Biomanufacturing in Consumer Chemicals Product Offered

Table 109. Jiangsu Chuangjian Medical Technology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. Jiangsu Chuangjian Medical Technology Main Business

Table 111. Jiangsu Chuangjian Medical Technology Latest Developments

Table 112. Anhui Huaheng Biotechnology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 113. Anhui Huaheng Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

Table 114. Anhui Huaheng Biotechnology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 115. Anhui Huaheng Biotechnology Main Business

Table 116. Anhui Huaheng Biotechnology Latest Developments

Table 117. Shandong Topscience Biotech Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 118. Shandong Topscience Biotech Biomanufacturing in Consumer Chemicals Product Offered

Table 119. Shandong Topscience Biotech Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 120. Shandong Topscience Biotech Main Business

Table 121. Shandong Topscience Biotech Latest Developments

Table 122. Shandong AWA Biopharm Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 123. Shandong AWA Biopharm Biomanufacturing in Consumer Chemicals Product Offered

Table 124. Shandong AWA Biopharm Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 125. Shandong AWA Biopharm Main Business

Table 126. Shandong AWA Biopharm Latest Developments

Table 127. Syensqo Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 128. Syensqo Biomanufacturing in Consumer Chemicals Product Offered

Table 129. Syensqo Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 130. Syensqo Main Business

Table 131. Syensqo Latest Developments

Table 132. Senrui Biotechnology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 133. Senrui Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

Table 134. Senrui Biotechnology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 135. Senrui Biotechnology Main Business

Table 136. Senrui Biotechnology Latest Developments

Table 137. Technoble Co., Ltd. Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 138. Technoble Co., Ltd. Biomanufacturing in Consumer Chemicals Product Offered

Table 139. Technoble Co., Ltd. Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 140. Technoble Co., Ltd. Main Business

Table 141. Technoble Co., Ltd. Latest Developments

Table 142. Wuhu Interferon Bio-products Industry Research Institute Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 143. Wuhu Interferon Bio-products Industry Research Institute Biomanufacturing in Consumer Chemicals Product Offered

Table 144. Wuhu Interferon Bio-products Industry Research Institute Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 145. Wuhu Interferon Bio-products Industry Research Institute Main Business

Table 146. Wuhu Interferon Bio-products Industry Research Institute Latest Developments

Table 147. TS-Biotech Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 148. TS-Biotech Biomanufacturing in Consumer Chemicals Product Offered

Table 149. TS-Biotech Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 150. TS-Biotech Main Business

Table 151. TS-Biotech Latest Developments

Table 152. HTL Biotechnology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 153. HTL Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

Table 154. HTL Biotechnology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 155. HTL Biotechnology Main Business

Table 156. HTL Biotechnology Latest Developments

Table 157. INKOS Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 158. INKOS Biomanufacturing in Consumer Chemicals Product Offered

Table 159. INKOS Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 160. INKOS Main Business

Table 161. INKOS Latest Developments

Table 162. Shanxi Jinbo Bio-Pharmaceutical Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 163. Shanxi Jinbo Bio-Pharmaceutical Biomanufacturing in Consumer Chemicals Product Offered

Table 164. Shanxi Jinbo Bio-Pharmaceutical Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 165. Shanxi Jinbo Bio-Pharmaceutical Main Business

Table 166. Shanxi Jinbo Bio-Pharmaceutical Latest Developments

Table 167. Yili Chuanning Biotechnology Details, Company Type, Biomanufacturing in

Consumer Chemicals Area Served and Its Competitors

Table 168. Yili Chuanning Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

Table 169. Yili Chuanning Biotechnology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 170. Yili Chuanning Biotechnology Main Business

Table 171. Yili Chuanning Biotechnology Latest Developments

Table 172. Zhihe Bio Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 173. Zhihe Bio Biomanufacturing in Consumer Chemicals Product Offered

Table 174. Zhihe Bio Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 175. Zhihe Bio Main Business

Table 176. Zhihe Bio Latest Developments

Table 177. Hubei Magic Health Technology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 178. Hubei Magic Health Technology Biomanufacturing in Consumer Chemicals Product Offered

Table 179. Hubei Magic Health Technology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 180. Hubei Magic Health Technology Main Business

Table 181. Hubei Magic Health Technology Latest Developments

Table 182. Vedan Biotechnology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 183. Vedan Biotechnology Biomanufacturing in Consumer Chemicals Product Offered

Table 184. Vedan Biotechnology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 185. Vedan Biotechnology Main Business

Table 186. Vedan Biotechnology Latest Developments

Table 187. Locus Ingredients Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 188. Locus Ingredients Biomanufacturing in Consumer Chemicals Product Offered

Table 189. Locus Ingredients Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 190. Locus Ingredients Main Business

Table 191. Locus Ingredients Latest Developments

Table 192. Luckerkong Details, Company Type, Biomanufacturing in Consumer

Chemicals Area Served and Its Competitors

Table 193. Luckerkong Biomanufacturing in Consumer Chemicals Product Offered

Table 194. Luckerkong Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 195. Luckerkong Main Business

Table 196. Luckerkong Latest Developments

Table 197. GuangZhou MeiZhong Biological Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 198. GuangZhou MeiZhong Biological Biomanufacturing in Consumer Chemicals Product Offered

Table 199. GuangZhou MeiZhong Biological Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 200. GuangZhou MeiZhong Biological Main Business

Table 201. GuangZhou MeiZhong Biological Latest Developments

Table 202. Shandong Jincheng Biological Pharmaceutical Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 203. Shandong Jincheng Biological Pharmaceutical Biomanufacturing in Consumer Chemicals Product Offered

Table 204. Shandong Jincheng Biological Pharmaceutical Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 205. Shandong Jincheng Biological Pharmaceutical Main Business

Table 206. Shandong Jincheng Biological Pharmaceutical Latest Developments

Table 207. Kyowa Hakko Bio Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 208. Kyowa Hakko Bio Biomanufacturing in Consumer Chemicals Product Offered

Table 209. Kyowa Hakko Bio Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 210. Kyowa Hakko Bio Main Business

Table 211. Kyowa Hakko Bio Latest Developments

Table 212. GeneHarbor (Yuyao) Lifespan Health Technology Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 213. GeneHarbor (Yuyao) Lifespan Health Technology Biomanufacturing in Consumer Chemicals Product Offered

Table 214. GeneHarbor (Yuyao) Lifespan Health Technology Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 215. GeneHarbor (Yuyao) Lifespan Health Technology Main Business

Table 216. GeneHarbor (Yuyao) Lifespan Health Technology Latest Developments

Table 217. Shenzhen Siyomicro Bio-Tech Details, Company Type, Biomanufacturing in

Consumer Chemicals Area Served and Its Competitors

Table 218. Shenzhen Siyomicro Bio-Tech Biomanufacturing in Consumer Chemicals Product Offered

Table 219. Shenzhen Siyomicro Bio-Tech Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 220. Shenzhen Siyomicro Bio-Tech Main Business

Table 221. Shenzhen Siyomicro Bio-Tech Latest Developments

Table 222. Holiform Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 223. Holiform Biomanufacturing in Consumer Chemicals Product Offered

Table 224. Holiform Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 225. Holiform Main Business

Table 226. Holiform Latest Developments

Table 227. Genelll Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 228. Genelll Biomanufacturing in Consumer Chemicals Product Offered

Table 229. Genelll Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 230. Genelll Main Business

Table 231. Genelll Latest Developments

Table 232. GSH Bio-Tech Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 233. GSH Bio-Tech Biomanufacturing in Consumer Chemicals Product Offered

Table 234. GSH Bio-Tech Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 235. GSH Bio-Tech Main Business

Table 236. GSH Bio-Tech Latest Developments

Table 237. Shenzhen Readline Biotech Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 238. Shenzhen Readline Biotech Biomanufacturing in Consumer Chemicals Product Offered

Table 239. Shenzhen Readline Biotech Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 240. Shenzhen Readline Biotech Main Business

Table 241. Shenzhen Readline Biotech Latest Developments

Table 242. Allied Carbon Solutions Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 243. Allied Carbon Solutions Biomanufacturing in Consumer Chemicals Product

Offered

Table 244. Allied Carbon Solutions Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 245. Allied Carbon Solutions Main Business

Table 246. Allied Carbon Solutions Latest Developments

Table 247. Cornigs Details, Company Type, Biomanufacturing in Consumer Chemicals Area Served and Its Competitors

Table 248. Cornigs Biomanufacturing in Consumer Chemicals Product Offered

Table 249. Cornigs Biomanufacturing in Consumer Chemicals Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 250. Cornigs Main Business

Table 251. Cornigs Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Biomanufacturing in Consumer Chemicals Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Biomanufacturing in Consumer Chemicals Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Biomanufacturing in Consumer Chemicals Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Biomanufacturing in Consumer Chemicals Sales Market Share by Country/Region (2025)

Figure 8. Biomanufacturing in Consumer Chemicals Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Type in 2025

Figure 10. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Technology in 2025

Figure 11. Biomanufacturing in Consumer Chemicals in Skincare

Figure 12. Global Biomanufacturing in Consumer Chemicals Market: Skincare (2021-2026) & (\$ millions)

Figure 13. Biomanufacturing in Consumer Chemicals in Makeup

Figure 14. Global Biomanufacturing in Consumer Chemicals Market: Makeup (2021-2026) & (\$ millions)

Figure 15. Biomanufacturing in Consumer Chemicals in Shampoo & Conditioner

Figure 16. Global Biomanufacturing in Consumer Chemicals Market: Shampoo & Conditioner (2021-2026) & (\$ millions)

Figure 17. Biomanufacturing in Consumer Chemicals in Fragrance

Figure 18. Global Biomanufacturing in Consumer Chemicals Market: Fragrance (2021-2026) & (\$ millions)

Figure 19. Biomanufacturing in Consumer Chemicals in Home Care

Figure 20. Global Biomanufacturing in Consumer Chemicals Market: Home Care (2021-2026) & (\$ millions)

Figure 21. Biomanufacturing in Consumer Chemicals in Other

Figure 22. Global Biomanufacturing in Consumer Chemicals Market: Other (2021-2026) & (\$ millions)

Figure 23. Global Biomanufacturing in Consumer Chemicals Market Size Market Share

by Application in 2025

Figure 24. Global Biomanufacturing in Consumer Chemicals Revenue Market Share by Player in 2025

Figure 25. Global Biomanufacturing in Consumer Chemicals Market Size Market Share by Region (2021-2026)

Figure 26. Americas Biomanufacturing in Consumer Chemicals Market Size 2021-2026 (\$ millions)

Figure 27. APAC Biomanufacturing in Consumer Chemicals Market Size 2021-2026 (\$ millions)

Figure 28. Europe Biomanufacturing in Consumer Chemicals Market Size 2021-2026 (\$ millions)

Figure 29. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size 2021-2026 (\$ millions)

Figure 30. Americas Biomanufacturing in Consumer Chemicals Value Market Share by Country in 2025

Figure 31. United States Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 32. Canada Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 33. Mexico Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 34. Brazil Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 35. APAC Biomanufacturing in Consumer Chemicals Market Size Market Share by Region in 2025

Figure 36. APAC Biomanufacturing in Consumer Chemicals Market Size Market Share by Type (2021-2026)

Figure 37. APAC Biomanufacturing in Consumer Chemicals Market Size Market Share by Application (2021-2026)

Figure 38. China Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 39. Japan Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 40. South Korea Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 41. Southeast Asia Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 42. India Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 43. Australia Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 44. Europe Biomanufacturing in Consumer Chemicals Market Size Market Share by Country in 2025

Figure 45. Europe Biomanufacturing in Consumer Chemicals Market Size Market Share by Type (2021-2026)

Figure 46. Europe Biomanufacturing in Consumer Chemicals Market Size Market Share by Application (2021-2026)

Figure 47. Germany Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 48. France Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 49. UK Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 50. Italy Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 51. Russia Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 52. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size Market Share by Region (2021-2026)

Figure 53. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size Market Share by Type (2021-2026)

Figure 54. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size Market Share by Application (2021-2026)

Figure 55. Egypt Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 56. South Africa Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 57. Israel Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 58. Turkey Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 59. GCC Countries Biomanufacturing in Consumer Chemicals Market Size Growth 2021-2026 (\$ millions)

Figure 60. Americas Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 61. APAC Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 62. Europe Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$

millions)

Figure 63. Middle East & Africa Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 64. United States Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 65. Canada Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 66. Mexico Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 67. Brazil Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 68. China Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 69. Japan Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 70. Korea Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 71. Southeast Asia Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 72. India Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 73. Australia Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 74. Germany Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 75. France Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 76. UK Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 77. Italy Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 78. Russia Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 79. Egypt Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 80. South Africa Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 81. Israel Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 82. Turkey Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

Figure 83. Global Biomanufacturing in Consumer Chemicals Market Size Market Share Forecast by Type (2027-2032)

Figure 84. Global Biomanufacturing in Consumer Chemicals Market Size Market Share Forecast by Application (2027-2032)

Figure 85. GCC Countries Biomanufacturing in Consumer Chemicals Market Size 2027-2032 (\$ millions)

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