

Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market size was valued at US\$ 11768 million in 2025 and is forecast to a readjusted size of US\$ 19866 million by 2032 with a CAGR of 7.9% during review period.

Disposable systems and consumables in biomanufacturing refer to a class of pre-sterilized, closed-loop, modular equipment and components used to replace or supplement traditional stainless steel equipment and reusable flow paths in the manufacturing processes of biopharmaceuticals, vaccines, recombinant proteins, antibodies, viral vectors, mRNA, cell and gene therapy, and some synthetic biology. Core products include disposable bioreactors and fermenters and their matching bags; disposable chromatography systems and pre-packed columns/membrane adsorbers/disposable flow paths; disposable filtration systems and depth filters/TFF/viral filters; disposable mixing and dispensing systems and storage bags/mixing bags; disposable material conveying systems and tubing/connectors/manifolds/sterile fittings; as well as sampling bags, disposable sensors, freeze-thaw bags, cell processing kits, disposable pump heads, and other supporting consumables such as automated flow paths. Overall, the industry has evolved from early replacement of basic consumables such as 'bags, tubing, and connectors' to a complete process platform covering upstream culture, downstream separation and purification, pre-treatment of formulations, and closed-loop fluid management.

From a production stage perspective, the role of disposable systems varies at different

stages. The laboratory stage is primarily used for small-scale process exploration, cell culture, sample processing, culture medium or buffer storage, filtration validation, and parameter screening, emphasizing flexibility, low contamination risk, and ease of operation. The pilot-scale stage is mainly used for process scale-up, parameter transfer, and preclinical or early clinical sample production, emphasizing process consistency and scalability with subsequent large-scale production. The large-scale production stage focuses on the use of disposable bioreactors, disposable bags, filtration/TFF, chromatography, mixing and preparation, storage solutions, tubing connections, and closed transfer systems, emphasizing GMP compliance, batch stability, reliable supply chain, complete validation documentation, and cost control.

The characteristics and application scenarios of various products also differ significantly. Disposable bioreactors and fermenters are mainly used for cell culture, seed amplification, antibody and recombinant protein production, vaccine and viral vector production. Their advantages include reduced CIP/SIP, lower risk of cross-contamination, shorter changeover time, and suitability for CDMO and multi-product production. However, their disadvantages lie in the fact that large-scale, high-intensity microbial fermentation, long-term stable large-volume production, and high-stirring/high-mass-transfer scenarios still face technological limitations. Single-use chromatography systems are primarily used for downstream capture and polishing purification, suitable for multi-product, small-batch, high-value, and rapid changeover scenarios. However, trade-offs remain regarding large-scale commercial processing, resin costs, pressure control, and validation complexity. Single-use filtration systems are the most widely used, covering culture medium filtration, clarification, sterilization, virus filtration, TFF concentration, and fluid exchange, serving as a crucial link in downstream bottleneck mitigation and continuous processes. Single-use mixing and dispensing systems are used for culture media, buffers, pre-mixing of formulations, and intermediate liquid management, forming the infrastructure for improving fluid management efficiency in large-scale production. Single-use material handling equipment and consumables are equivalent to a 'closed-loop fluid network' in bioprocessing, enabling the safe transfer of materials between different unit operations through tubing, connectors, sterile fittings, manifolds, and pumps.

From a supplier perspective, the global market exhibits a structure where multinational platform companies, specialized component companies, and regional local suppliers coexist. Representative multinational companies include Danaher/Cytiva, Thermo Fisher Scientific, Sartorius, Merck KGaA, Repligen, Saint-Gobain, Avantor, Entegris, Parker Hannifin, Meissner, and SaniSure, covering single-use bioreactors, filtration, chromatography, fluid management, piping connections, storage bags, and high-purity

material components. Equipment and engineering companies such as ABEC, GEA, and Morimatsu are representative in bioreactors, fermentation, mixing, process engineering, and modular facilities. Chinese companies such as Dongfulong, Chutian Technology, Lepur Bio, Duoning Bio, Jinyishengshi, Jotech Bio, Hanbang Technology, Saifen Technology, Arios, Bituo Bio, and Boyi Bio are accelerating their efforts to fill gaps in the market, focusing on single-use bags, dispensing systems, filter materials, chromatography media, fluid components, separation and purification consumables, and intelligent manufacturing capabilities.

In the future, the biomanufacturing single-use systems and consumables industry will exhibit five main trends. First, with high penetration of basic consumables, the focus of growth will expand from disposable bioreactors and bags to high-value segments such as downstream filtration, TFF, chromatography, membrane adsorbers, and virus filtration. Second, CDMO, multi-product manufacturing, advanced therapies, and early-stage commercialization projects will continue to drive demand for disposable systems, as these scenarios prioritize rapid changeover, low cross-contamination risk, and flexible capacity. Third, continuous and process-intensified processes will increase requirements for disposable sensors, long-term operating flow paths, ATF/TFF, automated pumps and valves, and PAT systems. Fourth, regulatory and quality requirements will continue to rise, with E&L, material compatibility, sterilization validation, particle control, batch traceability, and supplier change management becoming core aspects of procurement decisions. Fifth, sustainability will become a new dimension of industry competition; in the future, suppliers will need to provide more compelling solutions in areas such as packaging reduction, bio-based or bio-recycling materials, regionalized production, lifecycle assessment, and waste disposal.

The primary characteristic of the global biomanufacturing disposable systems and consumables industry is its evolution from relatively simple basic consumables such as bags, tubing, and filters to a comprehensive portfolio of products covering upstream cultivation, fermentation, solution preparation, storage, transfer, filtration, chromatography, ultrafiltration/washing, sampling, sensing, control, and some downstream purification stages. In the large-scale production stage, disposable bioreactors and fermenters, along with their associated consumables, remain the core components of the market. Bags, culture bags, reaction bags, tubing, connectors, sensors, and fluid management components form the foundation for continuous consumption. This means that market size is not solely driven by the sale of large equipment, but rather by both equipment platforms and high-frequency consumables. For biomanufacturing companies, the procurement logic for disposable systems is no longer simply 'buying a set of equipment,' but rather establishing a verifiable, traceable,

and sustainably supplied consumables system centered around complete batch production, process changeover, aseptic transfer, material storage, and batch release.

From a product level perspective, disposable equipment and components can be divided into three categories: The first category is core process equipment, such as disposable bioreactors, disposable mixing and dispensing systems, disposable filtration systems, disposable chromatography systems, disposable TFF systems, and some disposable cell processing equipment; the second category is high-frequency fluid management consumables, such as reservoir bags, culture bags, tubing, connectors, sterile fittings, manifolds, sampling bags, transfer kits, and pump tubing; the third category is functional enhancement components, such as disposable sensors, disposable control flow paths, membrane adsorbers, pre-loaded columns, disposable pump heads, and automated valve assemblies. The industry is moving from the first stage of 'bags replacing tanks' to the second stage of 'components supporting processes,' and is further advancing to the third stage of 'platform supporting infrastructure.' This shift determines that future competition will focus not only on the price of individual consumables, but also on product portfolio completeness, system compatibility, validation documentation packages, material stability, and supplier continuous delivery capabilities.

From a supplier distribution perspective, the global disposable systems and consumables industry exhibits a clear stratification. The first tier consists of multinational platform suppliers, typically covering multiple stages including bioreactoring, mixing and preparation, filtration, chromatography, storage solutions, fluid management, disposable sensing, and process control. These companies possess a global customer base, GMP documentation systems, material databases, validation support capabilities, and cross-regional delivery capabilities. Their advantage lies not only in the variety of their products but also in their ability to participate in the entire lifecycle of their clients, from process development and technology transfer to commercial production, providing replicable platform solutions. The second tier comprises specialized component suppliers, focusing on key components such as membranes, filters, connectors, tubing, pumps, sensors, cell retention devices, bag membrane materials, or high-purity fluid components. While their product range is narrower, their technological depth is high, often determining the reliability, aseptic integrity, long-term operational stability, and material compatibility of the entire disposable system. The third tier consists of regional and local suppliers, primarily relying on localized delivery, cost advantages, engineering response, and customized services to enter the market. They have strong growth potential in China, India, and other rapidly expanding biomanufacturing regions.

This tiered structure is highly relevant to the needs of the large-scale production stage. Large-scale production customers have far higher requirements for single-use systems than laboratory-scale customers. They need stable batch supply, material change notifications, E&L documentation, sterilization validation, packaging integrity, traceability systems, quality agreements, and supply assurance. Therefore, multinational platform companies still have an advantage in high-end commercial production scenarios; however, with regionalized manufacturing, the expansion of local CDMOs, and increasing cost-reduction pressures on customers, domestic companies have significantly increased opportunities in areas such as bags, mixing solutions, filtration systems, basic fluid components, and some equipment integration. Especially in the Chinese market, domestic suppliers are gradually extending from single consumables to system integration, large-scale equipment, and validation services.

The willingness to use single-use systems in biomanufacturing is already high, especially in areas such as single-use bags, tubing, connectors, storage bags, culture bags, and basic filtration components, which have become essential components of most large-scale production facilities. Single-use bioreactors have also moved from the early rapid introduction phase to a mature and widespread adoption phase, and are widely used in multi-product manufacturing, late-stage clinical projects, CDMO flexible capacity, and some commercial production scenarios. However, this does not mean that the entire industry has entered a period of stagnation. Conversely, with the high penetration of basic components, the market growth logic is shifting from 'first-time adoption' to 'higher frequency consumption, larger-scale upgrades, stronger reliability, more complex process integration, and downstream expansion.' This is also the most noteworthy structural change in the industry today.

From a usage scenario perspective, upstream single-use systems generally have higher acceptance than downstream complex purification systems because the advantages of single-use systems—reduced cleaning, shorter changeover times, and lower contamination risks—are more readily apparent in cell culture, storage, mixing, dispensing, and fluid transfer stages. Downstream stages, constrained by pressure, flow rate, binding capacity, recovery rate, membrane area, chromatography media costs, and the complexity of process validation, have a relatively slower penetration rate. However, with the development of membrane adsorbers, single-use TFFs, pre-packed columns, multi-column chromatography, continuous chromatography, and closed-loop downstream platforms, downstream single-use technologies are becoming an important growth driver in the next stage. Customer usage intentions are also showing more rational characteristics: single-use systems have clear advantages in small-batch, multi-product, high-value, rapid changeover, and contamination risk-sensitive scenarios; while

stainless steel systems still offer advantages in unit cost and long-term operation in ultra-large-scale, long-term stable, and high-volume products.

The development of the single-use systems industry is also characterized by continuously increasing quality and regulatory requirements. In the stage of large-scale production, single-use equipment and components directly contact culture media, cells, proteins, antibodies, viral vectors, or intermediate products. Their quality risks stem not only from equipment performance but also from material compatibility, extractables/leaches, particle size, sterilization, packaging integrity, supplier changes, batch traceability, and the integrity of connections during use. As regulatory agencies raise requirements for biopharmaceutical manufacturing processes, contamination control strategies, data integrity, and supplier management, customers are increasingly prioritizing supplier documentation packages, quality systems, and change control when procuring single-use systems, rather than simply comparing prices. For suppliers, the ability to provide complete material information, sterilization validation, E&L support, batch records, and compliance statements has become a basic threshold for entering the large-scale production supply chain.

Cost and sustainability constitute another set of key characteristics. Single-use systems offer comprehensive benefits by reducing cleaning, CIP/SIP, utilities, changeover time, and the risk of cross-contamination; however, their frequent consumption also increases the pressure on consumable procurement. As the market transitions from the introduction phase to maturity, customers are less tolerant of high prices and are paying more attention to per-batch costs, inventory costs, supplier bargaining power, and substitutability. Simultaneously, the challenges of plastic waste, incineration, landfill, and recycling are subjecting single-use systems to greater environmental scrutiny. The industry is shifting from simply emphasizing 'reducing water and cleaning chemicals' to adopting lifecycle assessments, packaging reduction, material optimization, regionalized supply, and recycling solutions.

The downstream customer structure is reshaping the demand logic of the single-use systems and consumables industry. Traditional large pharmaceutical companies focus on commercial supply stability, quality compliance, and long-term costs; emerging biotechnology companies focus on rapid clinical entry, reduced capital investment, and outsourced manufacturing accessibility; CDMOs focus on multi-customer project switchover, capacity utilization, rapid technology transfer, and flexible capacity expansion; cell and gene therapy, mRNA, viral vector, and personalized medicine companies emphasize closed-loop systems, small batches, multiple batches, low contamination risk, and rapid manufacturing. What these different customers have in

common is that they no longer view single-use systems merely as tools to save on cleaning costs, but rather as crucial infrastructure for improving manufacturing flexibility, shortening project cycles, reducing batch switchover risks, and supporting multi-product facility operations.

CDMOs are the most representative demand drivers. CDMO operations inherently involve multiple clients, projects, processes, and batch sizes, requiring production lines to switch rapidly between different molecules, processes, and development stages. Relying on traditional fixed stainless steel systems significantly increases operational complexity due to challenges in cleaning validation, cross-contamination control, production line scheduling, and process changeovers. Disposable systems help CDMOs shorten turnaround times, improve facility utilization, and better handle late-stage clinical, early-stage commercialization, and projects with uncertain demand. Advanced therapies further amplify this logic, as these products typically have smaller batch sizes, higher value, and more personalized processes, demanding even higher standards for closed systems and aseptic transfer.

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

Key Features:

Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing 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 Danaher, Sartorius AG, Merck KGaA, Thermo Fisher Scientific Inc, Saint-Gobain, Cobetter, Duoning Biotech, Avantor, Meissner, SaniSure, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-use Bioreactors and Fermenters and Related Consumables

Single-use Chromatography Systems and Related Consumables

Single-use Filtration Systems and Related Consumables

Single-use Centrifuges and Related Consumables

Single-use Mixing and Dispensing Systems and Related Consumables

Single-use Material Conveying Equipment and Related Consumables

Others

Market segment by Product Form

Disposable System

Related Consumables

Market segment by Fermentation Volume

?2000L

?2000L

Market segment by Application

Biopharmaceuticals

CDMO/CMO

Others

Market segment by players, this report covers

Danaher

Sartorius AG

Merck KGaA

Thermo Fisher Scientific Inc

Saint-Gobain

Cobetter

Duoning Biotech

Avantor

Meissner

SaniSure

Zhejiang JYSS Bio-Engineering

Parker Hannifin

Shanghai Lepure Biotech

NewAge Industries, Inc.

Repligen Corporation

Alfa Laval

ABEC

Levitronix

Entegris

Tofflon

BioLink

Tezalon Biotech

GEA

Austar Group

Truiking Technology

Dover Corp.?CPC Biotech?

Morimatsu Industry

Lisure

Jiangsu Hanbon

Guangzhou JET Bio-filtration

TECNIC

Chanse Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

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

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

Chapter 1, to describe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing, with revenue, gross margin, and global market share of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing from 2021 to 2026.

Chapter 3, the Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

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

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing.

Chapter 13, to describe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing by Type

1.3.1 Overview: Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Type in 2025

1.3.3 Single-use Bioreactors and Fermenters and Related Consumables

1.3.4 Single-use Chromatography Systems and Related Consumables

1.3.5 Single-use Filtration Systems and Related Consumables

1.3.6 Single-use Centrifuges and Related Consumables

1.3.7 Single-use Mixing and Dispensing Systems and Related Consumables

1.3.8 Single-use Material Conveying Equipment and Related Consumables

1.3.9 Others

1.4 Classification of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing by Product Form

1.4.1 Overview: Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Product Form: 2021 Versus 2025 Versus 2032

1.4.2 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Product Form in 2025

1.4.3 Disposable System

1.4.4 Related Consumables

1.5 Classification of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing by Fermentation Volume

1.5.1 Overview: Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Fermentation Volume: 2021 Versus 2025 Versus 2032

1.5.2 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Fermentation Volume in 2025

1.5.3 ?2000L

1.5.4 ?2000L

1.6 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market by Application

1.6.1 Overview: Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Biopharmaceuticals

1.6.3 CDMO/CMO

1.6.4 Others

1.7 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size & Forecast

1.8 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast by Region

1.8.1 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Region: 2021 VS 2025 VS 2032

1.8.2 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Region, (2021-2032)

1.8.3 North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Prospect (2021-2032)

1.8.4 Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Prospect (2021-2032)

1.8.5 Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Prospect (2021-2032)

1.8.6 South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Prospect (2021-2032)

1.8.7 Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Danaher

2.1.1 Danaher Details

2.1.2 Danaher Major Business

2.1.3 Danaher Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.1.4 Danaher Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Danaher Recent Developments and Future Plans

2.2 Sartorius AG

2.2.1 Sartorius AG Details

2.2.2 Sartorius AG Major Business

2.2.3 Sartorius AG Single-use Systems and Consumables for Large-Scale Production

in Biomanufacturing Product and Solutions

2.2.4 Sartorius AG Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Sartorius AG Recent Developments and Future Plans

2.3 Merck KGaA

2.3.1 Merck KGaA Details

2.3.2 Merck KGaA Major Business

2.3.3 Merck KGaA Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.3.4 Merck KGaA Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Merck KGaA Recent Developments and Future Plans

2.4 Thermo Fisher Scientific Inc

2.4.1 Thermo Fisher Scientific Inc Details

2.4.2 Thermo Fisher Scientific Inc Major Business

2.4.3 Thermo Fisher Scientific Inc Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.4.4 Thermo Fisher Scientific Inc Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Thermo Fisher Scientific Inc Recent Developments and Future Plans

2.5 Saint-Gobain

2.5.1 Saint-Gobain Details

2.5.2 Saint-Gobain Major Business

2.5.3 Saint-Gobain Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.5.4 Saint-Gobain Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Saint-Gobain Recent Developments and Future Plans

2.6 Cobetter

2.6.1 Cobetter Details

2.6.2 Cobetter Major Business

2.6.3 Cobetter Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.6.4 Cobetter Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Cobetter Recent Developments and Future Plans

2.7 Duoning Biotech

2.7.1 Duoning Biotech Details

- 2.7.2 Duoning Biotech Major Business
- 2.7.3 Duoning Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
- 2.7.4 Duoning Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Duoning Biotech Recent Developments and Future Plans
- 2.8 Avantor
 - 2.8.1 Avantor Details
 - 2.8.2 Avantor Major Business
 - 2.8.3 Avantor Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
 - 2.8.4 Avantor Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Avantor Recent Developments and Future Plans
- 2.9 Meissner
 - 2.9.1 Meissner Details
 - 2.9.2 Meissner Major Business
 - 2.9.3 Meissner Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
 - 2.9.4 Meissner Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Meissner Recent Developments and Future Plans
- 2.10 SaniSure
 - 2.10.1 SaniSure Details
 - 2.10.2 SaniSure Major Business
 - 2.10.3 SaniSure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
 - 2.10.4 SaniSure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 SaniSure Recent Developments and Future Plans
- 2.11 Zhejiang JYSS Bio-Engineering
 - 2.11.1 Zhejiang JYSS Bio-Engineering Details
 - 2.11.2 Zhejiang JYSS Bio-Engineering Major Business
 - 2.11.3 Zhejiang JYSS Bio-Engineering Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
 - 2.11.4 Zhejiang JYSS Bio-Engineering Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Zhejiang JYSS Bio-Engineering Recent Developments and Future Plans

2.12 Parker Hannifin

2.12.1 Parker Hannifin Details

2.12.2 Parker Hannifin Major Business

2.12.3 Parker Hannifin Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.12.4 Parker Hannifin Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Parker Hannifin Recent Developments and Future Plans

2.13 Shanghai Lepure Biotech

2.13.1 Shanghai Lepure Biotech Details

2.13.2 Shanghai Lepure Biotech Major Business

2.13.3 Shanghai Lepure Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.13.4 Shanghai Lepure Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Shanghai Lepure Biotech Recent Developments and Future Plans

2.14 NewAge Industries, Inc.

2.14.1 NewAge Industries, Inc. Details

2.14.2 NewAge Industries, Inc. Major Business

2.14.3 NewAge Industries, Inc. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.14.4 NewAge Industries, Inc. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 NewAge Industries, Inc. Recent Developments and Future Plans

2.15 Repligen Corporation

2.15.1 Repligen Corporation Details

2.15.2 Repligen Corporation Major Business

2.15.3 Repligen Corporation Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.15.4 Repligen Corporation Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Repligen Corporation Recent Developments and Future Plans

2.16 Alfa Laval

2.16.1 Alfa Laval Details

2.16.2 Alfa Laval Major Business

2.16.3 Alfa Laval Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.16.4 Alfa Laval Single-use Systems and Consumables for Large-Scale Production in

Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Alfa Laval Recent Developments and Future Plans

2.17 ABEC

2.17.1 ABEC Details

2.17.2 ABEC Major Business

2.17.3 ABEC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.17.4 ABEC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 ABEC Recent Developments and Future Plans

2.18 Levitronix

2.18.1 Levitronix Details

2.18.2 Levitronix Major Business

2.18.3 Levitronix Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.18.4 Levitronix Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Levitronix Recent Developments and Future Plans

2.19 Entegris

2.19.1 Entegris Details

2.19.2 Entegris Major Business

2.19.3 Entegris Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.19.4 Entegris Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.19.5 Entegris Recent Developments and Future Plans

2.20 Tofflon

2.20.1 Tofflon Details

2.20.2 Tofflon Major Business

2.20.3 Tofflon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.20.4 Tofflon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.20.5 Tofflon Recent Developments and Future Plans

2.21 BioLink

2.21.1 BioLink Details

2.21.2 BioLink Major Business

2.21.3 BioLink Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.21.4 BioLink Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.21.5 BioLink Recent Developments and Future Plans

2.22 Tezalon Biotech

2.22.1 Tezalon Biotech Details

2.22.2 Tezalon Biotech Major Business

2.22.3 Tezalon Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.22.4 Tezalon Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.22.5 Tezalon Biotech Recent Developments and Future Plans

2.23 GEA

2.23.1 GEA Details

2.23.2 GEA Major Business

2.23.3 GEA Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.23.4 GEA Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.23.5 GEA Recent Developments and Future Plans

2.24 Austar Group

2.24.1 Austar Group Details

2.24.2 Austar Group Major Business

2.24.3 Austar Group Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.24.4 Austar Group Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.24.5 Austar Group Recent Developments and Future Plans

2.25 Truiking Technology

2.25.1 Truiking Technology Details

2.25.2 Truiking Technology Major Business

2.25.3 Truiking Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.25.4 Truiking Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.25.5 Truiking Technology Recent Developments and Future Plans

2.26 Dover Corp.?CPC Biotech?

2.26.1 Dover Corp.?CPC Biotech? Details

2.26.2 Dover Corp.?CPC Biotech? Major Business

2.26.3 Dover Corp.?CPC Biotech? Single-use Systems and Consumables for Large-

Scale Production in Biomanufacturing Product and Solutions

2.26.4 Dover Corp.?CPC Biotech? Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.26.5 Dover Corp.?CPC Biotech? Recent Developments and Future Plans

2.27 Morimatsu Industry

2.27.1 Morimatsu Industry Details

2.27.2 Morimatsu Industry Major Business

2.27.3 Morimatsu Industry Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.27.4 Morimatsu Industry Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.27.5 Morimatsu Industry Recent Developments and Future Plans

2.28 Lisure

2.28.1 Lisure Details

2.28.2 Lisure Major Business

2.28.3 Lisure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.28.4 Lisure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.28.5 Lisure Recent Developments and Future Plans

2.29 Jiangsu Hanbon

2.29.1 Jiangsu Hanbon Details

2.29.2 Jiangsu Hanbon Major Business

2.29.3 Jiangsu Hanbon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.29.4 Jiangsu Hanbon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.29.5 Jiangsu Hanbon Recent Developments and Future Plans

2.30 Guangzhou JET Bio-filtration

2.30.1 Guangzhou JET Bio-filtration Details

2.30.2 Guangzhou JET Bio-filtration Major Business

2.30.3 Guangzhou JET Bio-filtration Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

2.30.4 Guangzhou JET Bio-filtration Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)

2.30.5 Guangzhou JET Bio-filtration Recent Developments and Future Plans

2.31 TECNIC

- 2.31.1 TECNIC Details
- 2.31.2 TECNIC Major Business
- 2.31.3 TECNIC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
- 2.31.4 TECNIC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
- 2.31.5 TECNIC Recent Developments and Future Plans
- 2.32 Chanse Technology
 - 2.32.1 Chanse Technology Details
 - 2.32.2 Chanse Technology Major Business
 - 2.32.3 Chanse Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions
 - 2.32.4 Chanse Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue, Gross Margin and Market Share (2021-2026)
 - 2.32.5 Chanse Technology Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing by Company Revenue
 - 3.2.2 Top 3 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Players Market Share in 2025
 - 3.2.3 Top 6 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Players Market Share in 2025
- 3.3 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market: Overall Company Footprint Analysis
 - 3.3.1 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market: Region Footprint
 - 3.3.2 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market: Company Product Type Footprint
 - 3.3.3 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value and Market Share by Type (2021-2026)

4.2 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Application (2021-2026)

5.2 Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2032)

6.2 North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Application (2021-2032)

6.3 North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Country

6.3.1 North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2032)

6.3.2 United States Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

6.3.3 Canada Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

6.3.4 Mexico Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2032)

7.2 Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2032)

7.3 Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Country

7.3.1 Europe Single-use Systems and Consumables for Large-Scale Production in

Biomanufacturing Consumption Value by Country (2021-2032)

7.3.2 Germany Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

7.3.3 France Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

7.3.5 Russia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

7.3.6 Italy Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Region

8.3.1 Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Region (2021-2032)

8.3.2 China Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

8.3.3 Japan Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

8.3.4 South Korea Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

8.3.5 India Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

8.3.7 Australia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2032)

9.2 South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2032)

9.3 South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Country

9.3.1 South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2032)

9.3.2 Brazil Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

9.3.3 Argentina Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size by Country

10.3.1 Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2032)

10.3.2 Turkey Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

10.3.4 UAE Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Drivers

11.2 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Restraints

11.3 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Industry Chain

12.2 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Upstream Analysis

12.3 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Midstream Analysis

12.4 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

@LOT

List Of Tables

LIST OF TABLES

Table 1. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 3. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Fermentation Volume, (USD Million), 2021 & 2025 & 2032

Table 4. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Region (2021-2026) & (USD Million)

Table 6. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Region (2027-2032) & (USD Million)

Table 7. Danaher Company Information, Head Office, and Major Competitors

Table 8. Danaher Major Business

Table 9. Danaher Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 10. Danaher Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 11. Danaher Recent Developments and Future Plans

Table 12. Sartorius AG Company Information, Head Office, and Major Competitors

Table 13. Sartorius AG Major Business

Table 14. Sartorius AG Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 15. Sartorius AG Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 16. Sartorius AG Recent Developments and Future Plans

Table 17. Merck KGaA Company Information, Head Office, and Major Competitors

Table 18. Merck KGaA Major Business

Table 19. Merck KGaA Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 20. Merck KGaA Single-use Systems and Consumables for Large-Scale

Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 21. Thermo Fisher Scientific Inc Company Information, Head Office, and Major Competitors

Table 22. Thermo Fisher Scientific Inc Major Business

Table 23. Thermo Fisher Scientific Inc Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 24. Thermo Fisher Scientific Inc Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Thermo Fisher Scientific Inc Recent Developments and Future Plans

Table 26. Saint-Gobain Company Information, Head Office, and Major Competitors

Table 27. Saint-Gobain Major Business

Table 28. Saint-Gobain Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 29. Saint-Gobain Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Saint-Gobain Recent Developments and Future Plans

Table 31. Cobetter Company Information, Head Office, and Major Competitors

Table 32. Cobetter Major Business

Table 33. Cobetter Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 34. Cobetter Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Cobetter Recent Developments and Future Plans

Table 36. Duoning Biotech Company Information, Head Office, and Major Competitors

Table 37. Duoning Biotech Major Business

Table 38. Duoning Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 39. Duoning Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Duoning Biotech Recent Developments and Future Plans

Table 41. Avantor Company Information, Head Office, and Major Competitors

Table 42. Avantor Major Business

Table 43. Avantor Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 44. Avantor Single-use Systems and Consumables for Large-Scale Production in

Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Avantor Recent Developments and Future Plans

Table 46. Meissner Company Information, Head Office, and Major Competitors

Table 47. Meissner Major Business

Table 48. Meissner Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 49. Meissner Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Meissner Recent Developments and Future Plans

Table 51. SaniSure Company Information, Head Office, and Major Competitors

Table 52. SaniSure Major Business

Table 53. SaniSure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 54. SaniSure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. SaniSure Recent Developments and Future Plans

Table 56. Zhejiang JYSS Bio-Engineering Company Information, Head Office, and Major Competitors

Table 57. Zhejiang JYSS Bio-Engineering Major Business

Table 58. Zhejiang JYSS Bio-Engineering Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 59. Zhejiang JYSS Bio-Engineering Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Zhejiang JYSS Bio-Engineering Recent Developments and Future Plans

Table 61. Parker Hannifin Company Information, Head Office, and Major Competitors

Table 62. Parker Hannifin Major Business

Table 63. Parker Hannifin Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 64. Parker Hannifin Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Parker Hannifin Recent Developments and Future Plans

Table 66. Shanghai Lepure Biotech Company Information, Head Office, and Major Competitors

Table 67. Shanghai Lepure Biotech Major Business

Table 68. Shanghai Lepure Biotech Single-use Systems and Consumables for Large-

Scale Production in Biomanufacturing Product and Solutions

Table 69. Shanghai Lepure Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Shanghai Lepure Biotech Recent Developments and Future Plans

Table 71. NewAge Industries, Inc. Company Information, Head Office, and Major Competitors

Table 72. NewAge Industries, Inc. Major Business

Table 73. NewAge Industries, Inc. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 74. NewAge Industries, Inc. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. NewAge Industries, Inc. Recent Developments and Future Plans

Table 76. Repligen Corporation Company Information, Head Office, and Major Competitors

Table 77. Repligen Corporation Major Business

Table 78. Repligen Corporation Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 79. Repligen Corporation Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Repligen Corporation Recent Developments and Future Plans

Table 81. Alfa Laval Company Information, Head Office, and Major Competitors

Table 82. Alfa Laval Major Business

Table 83. Alfa Laval Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 84. Alfa Laval Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Alfa Laval Recent Developments and Future Plans

Table 86. ABEC Company Information, Head Office, and Major Competitors

Table 87. ABEC Major Business

Table 88. ABEC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 89. ABEC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. ABEC Recent Developments and Future Plans

Table 91. Levitronix Company Information, Head Office, and Major Competitors

Table 92. Levitronix Major Business

Table 93. Levitronix Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 94. Levitronix Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Levitronix Recent Developments and Future Plans

Table 96. Entegris Company Information, Head Office, and Major Competitors

Table 97. Entegris Major Business

Table 98. Entegris Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 99. Entegris Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 100. Entegris Recent Developments and Future Plans

Table 101. Tofflon Company Information, Head Office, and Major Competitors

Table 102. Tofflon Major Business

Table 103. Tofflon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 104. Tofflon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 105. Tofflon Recent Developments and Future Plans

Table 106. BioLink Company Information, Head Office, and Major Competitors

Table 107. BioLink Major Business

Table 108. BioLink Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 109. BioLink Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. BioLink Recent Developments and Future Plans

Table 111. Tezalon Biotech Company Information, Head Office, and Major Competitors

Table 112. Tezalon Biotech Major Business

Table 113. Tezalon Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 114. Tezalon Biotech Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Tezalon Biotech Recent Developments and Future Plans

Table 116. GEA Company Information, Head Office, and Major Competitors

Table 117. GEA Major Business

Table 118. GEA Single-use Systems and Consumables for Large-Scale Production in

Biomanufacturing Product and Solutions

Table 119. GEA Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. GEA Recent Developments and Future Plans

Table 121. Austar Group Company Information, Head Office, and Major Competitors

Table 122. Austar Group Major Business

Table 123. Austar Group Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 124. Austar Group Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 125. Austar Group Recent Developments and Future Plans

Table 126. Truiking Technology Company Information, Head Office, and Major Competitors

Table 127. Truiking Technology Major Business

Table 128. Truiking Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 129. Truiking Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 130. Truiking Technology Recent Developments and Future Plans

Table 131. Dover Corp.?CPC Biotech? Company Information, Head Office, and Major Competitors

Table 132. Dover Corp.?CPC Biotech? Major Business

Table 133. Dover Corp.?CPC Biotech? Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 134. Dover Corp.?CPC Biotech? Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 135. Dover Corp.?CPC Biotech? Recent Developments and Future Plans

Table 136. Morimatsu Industry Company Information, Head Office, and Major Competitors

Table 137. Morimatsu Industry Major Business

Table 138. Morimatsu Industry Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 139. Morimatsu Industry Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Morimatsu Industry Recent Developments and Future Plans

Table 141. Lisure Company Information, Head Office, and Major Competitors

Table 142. Lisure Major Business

Table 143. Lisure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 144. Lisure Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Lisure Recent Developments and Future Plans

Table 146. Jiangsu Hanbon Company Information, Head Office, and Major Competitors

Table 147. Jiangsu Hanbon Major Business

Table 148. Jiangsu Hanbon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 149. Jiangsu Hanbon Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Jiangsu Hanbon Recent Developments and Future Plans

Table 151. Guangzhou JET Bio-filtration Company Information, Head Office, and Major Competitors

Table 152. Guangzhou JET Bio-filtration Major Business

Table 153. Guangzhou JET Bio-filtration Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 154. Guangzhou JET Bio-filtration Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 155. Guangzhou JET Bio-filtration Recent Developments and Future Plans

Table 156. TECNIC Company Information, Head Office, and Major Competitors

Table 157. TECNIC Major Business

Table 158. TECNIC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 159. TECNIC Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 160. TECNIC Recent Developments and Future Plans

Table 161. Chanse Technology Company Information, Head Office, and Major Competitors

Table 162. Chanse Technology Major Business

Table 163. Chanse Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Product and Solutions

Table 164. Chanse Technology Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 165. Chanse Technology Recent Developments and Future Plans

Table 166. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue (USD Million) by Players (2021-2026)

Table 167. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue Share by Players (2021-2026)

Table 168. Breakdown of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing by Company Type (Tier 1, Tier 2, and Tier 3)

Table 169. Market Position of Players in Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 170. Head Office of Key Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Players

Table 171. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market: Company Product Type Footprint

Table 172. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market: Company Product Application Footprint

Table 173. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing New Market Entrants and Barriers to Market Entry

Table 174. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Mergers, Acquisition, Agreements, and Collaborations

Table 175. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (USD Million) by Type (2021-2026)

Table 176. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Share by Type (2021-2026)

Table 177. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Forecast by Type (2027-2032)

Table 178. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2026)

Table 179. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Forecast by Application (2027-2032)

Table 180. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2026) & (USD Million)

Table 181. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2027-2032) & (USD Million)

Table 182. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2026) & (USD

Million)

Table 183. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2027-2032) & (USD Million)

Table 184. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2026) & (USD Million)

Table 185. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2027-2032) & (USD Million)

Table 186. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2026) & (USD Million)

Table 187. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2027-2032) & (USD Million)

Table 188. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2026) & (USD Million)

Table 189. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2027-2032) & (USD Million)

Table 190. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2026) & (USD Million)

Table 191. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2027-2032) & (USD Million)

Table 192. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2026) & (USD Million)

Table 193. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2027-2032) & (USD Million)

Table 194. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2026) & (USD Million)

Table 195. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2027-2032) & (USD Million)

Table 196. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Region (2021-2026) & (USD Million)

Table 197. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Region (2027-2032) & (USD

Million)

Table 198. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2026) & (USD Million)

Table 199. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2027-2032) & (USD Million)

Table 200. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2026) & (USD Million)

Table 201. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2027-2032) & (USD Million)

Table 202. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2026) & (USD Million)

Table 203. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2027-2032) & (USD Million)

Table 204. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2021-2026) & (USD Million)

Table 205. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type (2027-2032) & (USD Million)

Table 206. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2021-2026) & (USD Million)

Table 207. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application (2027-2032) & (USD Million)

Table 208. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2021-2026) & (USD Million)

Table 209. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Country (2027-2032) & (USD Million)

Table 210. Global Key Players of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Upstream (Raw Materials)

Table 211. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Picture

Figure 2. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Type in 2025

Figure 4. Single-use Bioreactors and Fermenters and Related Consumables

Figure 5. Single-use Chromatography Systems and Related Consumables

Figure 6. Single-use Filtration Systems and Related Consumables

Figure 7. Single-use Centrifuges and Related Consumables

Figure 8. Single-use Mixing and Dispensing Systems and Related Consumables

Figure 9. Single-use Material Conveying Equipment and Related Consumables

Figure 10. Others

Figure 11. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Product Form in 2025

Figure 13. Disposable System

Figure 14. Related Consumables

Figure 15. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Fermentation Volume, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Fermentation Volume in 2025

Figure 17. ?2000L

Figure 18. ?2000L

Figure 19. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 20. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Application in 2025

Figure 21. Biopharmaceuticals Picture

Figure 22. CDMO/CMO Picture

Figure 23. Others Picture

Figure 24. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 25. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Market Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 27. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Region (2021-2032)

Figure 28. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Region in 2025

Figure 29. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 34. Company Three Recent Developments and Future Plans

Figure 35. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Revenue Share by Players in 2025

Figure 36. Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 37. Market Share of Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing by Player Revenue in 2025

Figure 38. Top 3 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Players Market Share in 2025

Figure 39. Top 6 Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Players Market Share in 2025

Figure 40. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Share by Type (2021-2026)

Figure 41. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Market Share Forecast by Type (2027-2032)

Figure 42. Global Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Share by Application (2021-2026)

Figure 43. Global Single-use Systems and Consumables for Large-Scale Production in

Biomanufacturing Market Share Forecast by Application (2027-2032)

Figure 44. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Type (2021-2032)

Figure 45. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Application (2021-2032)

Figure 46. North America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Type (2021-2032)

Figure 51. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Application (2021-2032)

Figure 52. Europe Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 54. France Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Region (2021-2032)

Figure 61. China Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 62. Japan Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 63. South Korea Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 64. India Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 65. Southeast Asia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 66. Australia Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value (2021-2032) & (USD Million)

Figure 67. South America Single-use Systems and Consumables for Large-Scale Production in Biomanufacturing Consumption Value Market Share by Type (2021-2032)

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