

# **Single-Use Bioprocessing Market Size, Trends, Analysis, and Outlook By Product (Simple & Peripheral Elements (Tubing, Filters, Connectors, & Transfer Systems, Bags, Sampling Systems, Probes & Sensors, Others), Apparatus & Plants (Bioreactors, Mixing, Storage, & Filling Systems, Filtration System, Chromatography Systems, Pumps, Others), Work Equipment (Cell Culture System, Syringes, Others)), By Workflow ( Upstream Bioprocessing, Fermentation, Downstream Bioprocessing), By End-use ( Biopharmaceutical Manufacturers (CMOs & CROs, In-house Manufacturers), Academic & Clinical Research Institutes), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Single-Use Bioprocessing market size is poised to register 14.14% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Single-Use Bioprocessing market across By Product (Simple & Peripheral Elements (Tubing, Filters, Connectors, & Transfer Systems, Bags, Sampling Systems, Probes & Sensors, Others), Apparatus & Plants (Bioreactors, Mixing, Storage, & Filling Systems, Filtration System, Chromatography Systems, Pumps, Others), Work Equipment (Cell Culture System, Syringes, Others)), By Workflow ( Upstream Bioprocessing, Fermentation, Downstream

Bioprocessing), By End-use ( Biopharmaceutical Manufacturers (CMOs & CROs, In-house Manufacturers), Academic & Clinical Research Institutes).

The Single-Use Bioprocessing market is witnessing robust growth driven by the increasing adoption of disposable technologies in biopharmaceutical manufacturing, advancements in single-use systems, and the growing demand for flexible and cost-effective production solutions. Single-use bioprocessing systems eliminate the need for cleaning and validation processes associated with traditional stainless steel equipment, enabling biopharmaceutical manufacturers to streamline operations, reduce contamination risks, and expedite time-to-market for biologics. Factors such as the expanding biopharmaceutical pipeline, the rising demand for personalized medicines and biologics, and the growing trend towards modular and flexible manufacturing platforms are driving market expansion. Additionally, advancements in single-use bioreactors, disposable filtration systems, and aseptic connectors, along with the development of integrated and scalable single-use solutions, are fueling innovation in the market. Moreover, the increasing investments in biomanufacturing capacity expansion, the adoption of single-use technologies in contract manufacturing organizations (CMOs) and contract development and manufacturing organizations (CDMOs), and the rising regulatory approvals for single-use systems are driving market growth. Furthermore, efforts to address concerns related to leachables and extractables, optimize process economics, and enhance supply chain resilience are expected to further propel market growth in the coming years.

### Single-Use Bioprocessing Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Single-Use Bioprocessing market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Single-Use Bioprocessing survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Single-Use Bioprocessing industry.

### Key market trends defining the global Single-Use Bioprocessing demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics,

demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Single-Use Bioprocessing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Single-Use Bioprocessing industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Single-Use Bioprocessing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Single-Use Bioprocessing industry

Leading Single-Use Bioprocessing companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Single-Use Bioprocessing companies.

## Single-Use Bioprocessing Market Study- Strategic Analysis Review

The Single-Use Bioprocessing market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and

economic changes.

### Single-Use Bioprocessing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Single-Use Bioprocessing industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Single-Use Bioprocessing Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

### North America Single-Use Bioprocessing Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Single-Use Bioprocessing market segments. Similarly, Strong end-user demand is encouraging Canadian Single-Use Bioprocessing companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Single-Use Bioprocessing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Single-Use Bioprocessing Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Single-Use Bioprocessing industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses

in identifying and leveraging new growth prospects positions the European Single-Use Bioprocessing market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

**Asia Pacific Single-Use Bioprocessing Market Size Outlook-** an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Single-Use Bioprocessing in Asia Pacific. In particular, China, India, and South East Asian Single-Use Bioprocessing markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Single-Use Bioprocessing Market Size Outlook-** Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa Single-Use Bioprocessing Market Size Outlook-** continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Single-Use Bioprocessing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Single-Use Bioprocessing.

**Single-Use Bioprocessing Market Company Profiles**

The global Single-Use Bioprocessing market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Avantor, Inc., Corning Incorporated, Danaher Corporation, Eppendorf SE, Lonza, Meissner Filtration Products, Inc., Merck KGaA, PBS Biotech, Inc., Sartorius AG, Thermo Fisher Scientific, Inc.

### Recent Single-Use Bioprocessing Market Developments

The global Single-Use Bioprocessing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

### Single-Use Bioprocessing Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

### By Product

#### Simple & Peripheral Elements

- Tubing, Filters, Connectors, & Transfer Systems

- Bags

- Sampling Systems

- Probes & Sensors

- Others

#### Apparatus & Plants

- Bioreactors

- Mixing, Storage, & Filling Systems

- Filtration System

- Chromatography Systems

- Pumps

- Others

#### Work Equipment

- Cell Culture System

- Syringes

- Others



## By Workflow

-Upstream Bioprocessing

-Fermentation

-Downstream Bioprocessing

## By End-use

Biopharmaceutical Manufacturers

-CMOs & CROs

-In-house Manufacturers

Academic & Clinical Research Institutes

## Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Avantor, Inc.

Corning Incorporated

Danaher Corporation



Eppendorf SE

Lonza

Meissner Filtration Products, Inc.

Merck KGaA

PBS Biotech, Inc.

Sartorius AG

Thermo Fisher Scientific, Inc.

Formats Available: Excel, PDF, and PPT

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  - Sampling Systems
  - Probes & Sensors
  - Others
- Apparatus & Plants
- Bioreactors
  - Mixing, Storage, & Filling Systems
  - Filtration System
  - Chromatography Systems
  - Pumps
  - Others
- Work Equipment
- Cell Culture System
  - Syringes
  - Others

#### By Workflow

- Upstream Bioprocessing
- Fermentation
- Downstream Bioprocessing

#### By End-use

##### Biopharmaceutical Manufacturers

- CMOs & CROs
- In-house Manufacturers

##### Academic & Clinical Research Institutes

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Corning Incorporated

Danaher Corporation

Eppendorf SE

Lonza

Meissner Filtration Products, Inc.

Merck KGaA

PBS Biotech, Inc.

Sartorius AG

Thermo Fisher Scientific, Inc.

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