

Single-use Bioprocessing Market to be Worth US\$57.35 Bn by 2032 - Exclusive Report by Vantage Market Research

Single-use Bioprocessing Market - Single-use Bioprocessing Industry Size, Share, Analysis and Research Report

WASHINGTON, D.C, DISTRICT OF COLUMBIA, UNITED STATES, June 6, 2024 /EINPresswire.com/ -- Overview of [Single-use Bioprocessing Market](#)

The single-use bioprocessing market is a dynamic segment within the biopharmaceutical industry, characterized by the use of disposable bioprocessing equipment. This

approach has revolutionized the production of biologics, offering a flexible and cost-effective alternative to traditional stainless-steel equipment. The Global Single-use Bioprocessing Market is valued at US\$ 11.5 Billion in 2023 and is projected to reach a value of US\$ 57.35 Billion by 2032, The driving factors behind the market's growth include the need for rapid drug

development cycles, reduced risk of cross-contamination, and the ability to scale operations efficiently. The market's expansion is further propelled by the increasing demand for biopharmaceuticals and the ongoing innovation in bioprocessing technologies.



Global Single-use
Bioprocessing Market
Poised for Growth:
Projected CAGR of 19.6%
from 2024 to 2032"

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Market Dynamics

Single-use Bioprocessing Market Compound Annual Growth Rate of 19.6% between 2024 and 2032, The market is experiencing robust growth, fueled by the burgeoning demand for

biopharmaceuticals and the shift towards more sustainable and efficient manufacturing practices. Single-use systems (SUS) have emerged as a solution to the challenges of speed and flexibility in drug production. The adoption of SUS is driven by their lower environmental impact, reduced setup times, and elimination of cleaning and sterilization processes. However, the market faces headwinds such as concerns over the disposability of single-use materials and the need for continuous innovation to address the complexities of biopharmaceutical production.

Top Companies in Global Single-use Bioprocessing Market

- Thermo Fisher Scientific Inc. (U.S.)
- Merck KGaA (Germany)
- Avantor Inc. (U.S.)
- Eppendorf SE (Germany)
- Sartorius AG (Germany)
- Lonza Group AG (Switzerland)
- PBS Biotech Inc. (U.S.)
- Meissner Filtration Products Inc. (U.S.)
- Danaher Corp. (U.S.)
- Corning Inc. (U.S.)

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Top Trends

Recent trends in the single-use bioprocessing market reflect a growing emphasis on sustainability and efficiency. Innovations such as biodegradable materials and improved system designs are making single-use technologies more environmentally friendly. Additionally, advancements in automation and monitoring are enhancing the reliability and quality control of bioprocessing operations. The integration of single-use systems with continuous processing techniques is also gaining traction, offering the potential for uninterrupted and streamlined biomanufacturing workflows.

Top Report Findings

- The global market is projected to grow significantly, with a CAGR of over 19.6 % from 2024 to 2032.
- North America holds a substantial market share, driven by advanced biopharmaceutical sectors.
- The COVID-19 pandemic has accelerated the adoption of single-use technologies due to the urgent need for vaccines.

Get a Access To Single-use Bioprocessing Industry Real-Time Data:

Challenges

The single-use bioprocessing market grapples with several challenges, including the management of waste generated by disposable components and the potential for extractables and leachables that could compromise product integrity. Scaling up production while maintaining quality and consistency remains a complex task for manufacturers. Additionally, the industry must navigate the evolving regulatory landscape to ensure compliance and safety.

Opportunities

Opportunities within the single-use bioprocessing market are abundant, particularly in the development of more sustainable and efficient biomanufacturing practices. The ongoing research into reducing the environmental impact of disposables and improving the recyclability of materials presents significant potential. Furthermore, the increasing prevalence of chronic diseases globally is driving the demand for biopharmaceuticals, thereby expanding the market for single-use technologies.

Key Questions Answered in the Report

1. What is the projected market size and growth rate of the single-use bioprocessing market by 2030?
2. How has the COVID-19 pandemic impacted the adoption of single-use bioprocessing technologies?
3. What are the primary drivers behind the growth of the single-use bioprocessing market?
4. What challenges does the single-use bioprocessing market face in terms of waste management and regulatory compliance?
5. How are advancements in single-use bioprocessing technologies contributing to the sustainability of biomanufacturing?
6. What opportunities exist for single-use bioprocessing in emerging markets?
7. How is the North American region contributing to the development of the single-use bioprocessing market?
8. What role do continuous processing and automation play in the future of single-use bioprocessing?

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Global Single-use Bioprocessing Market Segmentation

By Product

- Simple & Peripheral Elements

- o Tubing, Filters, Connectors, & Transfer Systems
 - o Bags
 - o Sampling Systems
 - o Probes & Sensors
 - pH Sensor
 - Oxygen Sensor
 - Pressure Sensors
 - Temperature Sensors
 - Conductivity Sensors
 - Flow Sensors
 - Others
 - o Others
 - Apparatus & Plants
 - o Bioreactors
 - Upto 1000L
 - Above 1000L to 2000L
 - Above 2000L
 - o Mixing, Storage, & Filling Systems
 - o Filtration System
 - o Chromatography Systems
 - o Pumps
 - o Others
 - Work Equipment
 - o Cell Culture System
 - o Syringes
 - o Others
- By Workflow
- Upstream Bioprocessing
 - Fermentation
 - Downstream Bioprocessing
- By End-use
- Biopharmaceutical Manufacturers
 - o CMOs & CROs
 - o In-house Manufacturers
 - Academic & Clinical Research Institutes
- By Region
- North America
 - o U.S
 - Europe
 - Asia Pacific
 - Latin America
 - Middle East & Africa

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Regional Analysis:

North America is a leader in the single-use bioprocessing market, with a well-established biopharmaceutical sector and a strong presence of key industry players. The region's market is driven by the rapid adoption of innovative bioprocessing technologies, significant investments in R&D, and supportive regulatory frameworks. The U.S. and Canada are at the forefront of implementing single-use systems, particularly in the production of vaccines and personalized medicines. The region's focus on reducing the environmental footprint of biomanufacturing and the push towards automation and continuous processing are setting the stage for the next generation of bioprocessing solutions.

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