

**Single Use Assemblies Market by Product (Bag (2D, 3D), Filtration, Bottle, Mixing, Tubing Assemblies), Solution (Customized, Standard), Modality (mAbs, Vaccines, CGT), Application (Filtration, Cell Culture, Storage, Transfer) - Global Forecasts to 2029**

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**Report description:**

The single-use assemblies market is expected to grow to USD 4.89 billion by 2029, up from USD 2.63 billion in 2024, at a CAGR of 13.2% between 2024 and 2029. Growth in this market is mainly driven by the growing adoption among CDMOs, SMEs & startups, rapid implementation and low risk of cross-contamination, growing biologics & biosimilar markets, and cost savings with single-use assemblies. Furthermore, there is a growing focus on technological developments and outsourcing services. Furthermore, emerging countries provide significant development opportunities, and the focus on capacity expansion by biopharmaceutical companies is expected to drive the market further.

"The 2D bag assemblies segment accounted for the largest share of bag assemblies segment for the single-use assemblies market in 2023."

The bag assemblies segment of the single-use assemblies market is further divided into 2D & 3D bag assemblies. In 2023, the 2D bag assemblies segment accounted for the largest share of the global single-use assemblies market by bag assemblies. The dominance of 2D bag assemblies over 3D assemblies can be attributed to their simpler design, ease of handling, and suitability for lower-volume operations. Additionally, their ability to integrate seamlessly into automated systems and compatibility with a range of fluids, such as buffers and reagents, makes them a preferred choice for manufacturers.

"The monoclonal antibodies segment accounted for the largest share of by modalities segment for the single-use assemblies market in 2023."

In 2023, the monoclonal antibodies segment accounted for the largest share of the global single-use assemblies market by modality. Monoclonal antibodies (mAbs) are one of the largest segments of the biotechnology drugs market. Factors The large

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share of the monoclonal antibodies (mAbs) segment can be attributed to the increasing demand for single-use assemblies in the manufacturing of mAbs due to low capital investment, low workforce requirements, and reductions in time-consuming changeover procedures and validation.

"In 2023, the US remained to dominate the single-use assemblies market."

The US dominated the North American single-use assemblies market in 2023. The US is the world's largest biopharmaceutical market and the leader in biopharmaceutical research and investment. The United States also has a strong healthcare infrastructure, which encourages research and development in the life sciences. Additionally, the significant presence of many biopharmaceutical companies and growing research activities in the biotechnology industry are propelling market growth in the US. Moreover, the growing support from government bodies in the form of funds and grants is also driving the growth of the single-use assemblies market.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the single-use assemblies marketplace.

-□By Respondent: Supply Side- 70% and Demand Side 30%

-□By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

-□By Region: North America - 40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

Thermo Fisher Scientific Inc. (US); Sartorius AG (Germany); Danaher Corporation (US); Merck KGaA (Germany); Avantor, Inc. (US); are some of the key players in the single-use assemblies market.

The study includes an in-depth competitive analysis of these key players in the single-use assemblies market, with their company profiles, recent developments, and key market strategies

Research Coverage:

This research report categorizes the single-use assemblies market by product (□bag assemblies {2D bag assemblies and □3D bag assemblies}, filtration assemblies, bottle assemblies, tubing assemblies, mixing assemblies, sampling assemblies, sensor assemblies, and other single-use assembly products), solution (standard solutions and customized solutions), modality (monoclonal antibodies, vaccines, therapeutic proteins & peptides, and cell & gene therapies), application (filtration & purification applications, aseptic transfer, storage applications, sampling applications, cell culture, □formulation & fill-finish applications, and mixing), end user (pharmaceutical & biopharmaceutical companies, CROs & CMOs, and academic & research institutes), and by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the single-use assemblies market. A thorough analysis of the key industry players has been done to provide insights into their business overview, products, key strategies, collaborations, partnerships, and agreements. Also, it includes new product launches, collaborations and acquisitions, and recent developments associated with the single-use assemblies market.

Reasons to buy this report

The report will help market leaders/new entrants by providing the closest approximations of the revenue numbers for the overall single-use assemblies market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to position their business better and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

-□Analysis of key drivers (rising adoption of single-use assemblies in biopharmaceutical manufacturing, increasing focus on advantages of single-use solutions over traditional bioprocessing, booming biologics and biosimilars market, and growing advancements in single-use assembly technologies), restraints (issues related to leachables and extractables, complex and

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stringent regulatory landscape for single-use products, leakage and integrity issues), opportunities (high growth in emerging economies, rising focus on expanding bioprocessing capacities), and Challenges (standardization of single-use assemblies, waste generation and disposal issues, gap between demand and supply of single-use assemblies) influencing the growth of the market.

- Product Development/Innovation: Detailed insights on newly launched products of the single-use assemblies market
- Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the single-use assemblies market
- Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players like Thermo Fisher Scientific Inc (US), Sartorius AG (Germany), Merck KGaA (Germany), Danaher Corporation (US), Avantor, Inc. (US), Parker Hannifin Corporation (US), Saint-Gobain (France), Repligen Corporation (US), Corning Incorporated (US), Entegris (US), among others in the market.

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