

Global Single-Use Technology for Biopharmaceuticals Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-Use Technology for Biopharmaceuticals market size is expected to reach \$ 11118 million by 2032, rising at a market growth of 9.7% CAGR during the forecast period (2026-2032).

Single-Use Technology for Biopharmaceuticals refers to disposable bioprocessing systems, components, and consumables used in the development and manufacturing of biopharmaceutical products. These technologies are designed to be used for a single production batch, process step, or manufacturing campaign and then discarded, replacing traditional stainless-steel systems that require cleaning, sterilization, and validation.

In the biopharmaceutical industry, single-use technology typically includes single-use bioreactors, media and buffer bags, storage bags, mixing systems, tubing assemblies, sterile connectors, filters, sampling systems, sensors, and fill-finish assemblies. These products are widely used in upstream processing, downstream processing, fluid management, formulation, and aseptic transfer for the production of monoclonal antibodies, vaccines, recombinant proteins, cell therapies, gene therapies, mRNA products, and other biologics.

The single-use technology for biopharmaceutical sector is characterized by high gross margins; leading international companies maintain gross margins exceeding 50% thanks to technological barriers and brand advantages.

Single-use technology in biopharmaceuticals is rapidly evolving toward greater intelligence, modularity, and sustainability. Future trends include smart single-use systems integrating sensors and IoT technology to enable real-time process

monitoring and digital control; modular facility designs that shorten construction timelines and enhance production flexibility; and customized single-use solutions tailored for emerging therapies such as mRNA and cell and gene therapies. Regarding sustainability, the industry is shifting from traditional plastics to bio-based, biodegradable materials while simultaneously reducing waste through closed-loop recycling systems.

In terms of raw materials, multi-layer co-extruded films (e.g., polyethylene, EVOH barrier layers), silicone tubing, and thermoplastic elastomers (TPE) remain dominant; however, the supply chain is undergoing profound transformation. There is a heavy reliance on a limited number of European and American suppliers (such as Thermo Fisher, Sartorius, and Merck) for key resins and films, though geopolitical factors and the post-pandemic landscape are driving a diversification of global production capacity. Chinese enterprises are accelerating efforts to achieve import substitution for high-end films and precision connectors. Furthermore, increasingly stringent standards for extractables and leachables (E&L) are pushing raw materials toward higher purity, lower adsorption, and reduced particle shedding, with biocompatibility certifications (e.g., USP Class VI, ISO 10993) becoming essential market entry requirements.

This report studies the global Single-Use Technology for Biopharmaceuticals demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Use Technology for Biopharmaceuticals, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single-Use Technology for Biopharmaceuticals that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Use Technology for Biopharmaceuticals total market, 2021-2032, (USD Million)

Global Single-Use Technology for Biopharmaceuticals total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Single-Use Technology for Biopharmaceuticals total market, key domestic companies, and share, (USD Million)

Global Single-Use Technology for Biopharmaceuticals revenue by player, revenue and market share 2021-2026, (USD Million)

Global Single-Use Technology for Biopharmaceuticals total market by Type, CAGR, 2021-2032, (USD Million)

Global Single-Use Technology for Biopharmaceuticals total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Single-Use Technology for Biopharmaceuticals 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 (US), Sartorius (DE), Thermo Fisher Scientific (US), Merck KGaA (DE), Repligen (US), Meissner Filtration Products (US), ABEC (US), Avantor (US), Corning (US), Entegris (US), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Single-Use Technology for Biopharmaceuticals market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Single-Use Technology for Biopharmaceuticals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Use Technology for Biopharmaceuticals Market, Segmentation by Type:

Single-use Bioreactors

Single-use Bags & Containers

Filtration Assemblies

Tubing & Connectors

Others

Global Single-Use Technology for Biopharmaceuticals Market, Segmentation by End User:

Biopharmaceutical Companies

CDMOs / CMOs

Research Institutes

Cell & Gene Therapy Companies

Vaccine Manufacturers

Global Single-Use Technology for Biopharmaceuticals Market, Segmentation by Scale of Operation:

1,000 L

Global Single-Use Technology for Biopharmaceuticals Market, Segmentation by Application:

Monoclonal Antibodies

Vaccines

Cell & Gene Therapy

Recombinant Proteins

Others

Companies Profiled:

Danaher (US)

Sartorius (DE)

Thermo Fisher Scientific (US)

Merck KGaA (DE)

Repligen (US)

Meissner Filtration Products (US)

ABEC (US)

Avantor (US)

Corning (US)

Entegris (US)

Saint-Gobain Life Sciences (FR)

Watson-Marlow / BioPure (GB)

CPC / Colder Products (US)

Eppendorf (DE)

Getinge / Applikon (SE)

PBS Biotech (US)

Shanghai Tofflon Science and Technology Co., Ltd. (CN)

Shanghai LePure Biotech Co., Ltd. (CN)

Shanghai Duoning Biotechnology Co., Ltd. (CN)

Key Questions Answered

1. How big is the global Single-Use Technology for Biopharmaceuticals market?
2. What is the demand of the global Single-Use Technology for Biopharmaceuticals market?
3. What is the year over year growth of the global Single-Use Technology for Biopharmaceuticals market?
4. What is the total value of the global Single-Use Technology for Biopharmaceuticals market?
5. Who are the Major Players in the global Single-Use Technology for Biopharmaceuticals market?
6. What are the growth factors driving the market demand?

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