

Global Single-use Systems Market 2023-2029

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Abstracts

Single-use systems (SUS) are biopharmaceutical manufacturing (bioprocessing) devices that are designed to be used once (or used for a single production activity) and then discarded. In general, SUS equipment consists primarily of sealed and gamma-sterilized plastic components. The primary benefit of SUS over traditional stainless steel (or, less commonly, glass in bioprocessing) is that the equipment is sterile, avoiding the need for cleaning, sterilization, and validation of sterilization prior to use; avoiding the installation of the associated complex steam, WFI, and other plumbing with large fixed stainless steel components throughout the bioprocessing facility. The global single-use systems market is anticipated to increase by USD 21.4 billion till 2029 at an average annual growth of 18.2 percent as per the latest market estimates.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global single-use systems market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the product, modality, bioprocessing, application, bioreactor capacity, component, and region. The global market for single-use systems can be segmented by product: bioprocess containers, bioreactors, bottles, mixers, single use sampling systems, transfer sets, others. The bioprocess containers segment held the largest share of the global single-use systems market in 2022 and is anticipated to hold its share during the forecast period. Single-use systems market is further segmented by modality: cell therapy, conventional vaccine, gene therapy, mRNA, protein & monoclonal antibody (mAb). Globally, the protein & monoclonal antibody (mAb) segment made up the largest share of the single-use systems market. Based on

bioprocessing, the single-use systems market is segmented into: small-scale, mid-scale, large-scale. The small-scale segment was the largest contributor to the global single-use systems market in 2022. On the basis of application, the single-use systems market also can be divided into: aseptic filling, cell culture, filtration, mixing, purification, storage, others. The cell culture segment is estimated to account for the largest share of the global single-use systems market. Single-use systems market by bioreactor capacity is categorized into: less than 1000L, 1000-2000L, more than 2000L. The single-use systems market by component can be segmented into: drug substance, drug product. Based on region, the single-use systems market is further categorized into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America.

The single use sampling system market is further segmented into automated sampling solutions, off-line single use sampling solutions, reusable manual sampling solutions. In 2022, the automated sampling solutions segment made up the largest share of revenue generated by the single-use systems market. Furthermore, the bioprocess containers market has been categorized into containers, connectors, tubing. Among these, the containers segment was accounted for the highest revenue generator in 2022. The transfer sets market is further divided into single use connectors, single use aseptic connectors, disconnectors, single use aseptic disconnectors, tubes & assemblies, biowelde or biosealer. The single use aseptic connectors segment captured the largest share of the market in 2022 and is expected to maintain its dominance during the forecast period. The storage market is further segmented into bioprocess containers, bottles, equipment. In 2022, the bioprocess containers segment made up the largest share of revenue generated by the single-use systems market. Furthermore, the cell culture market has been categorized into single use sampling system, bioreactor, bioprocess containers. Among these, the bioprocess containers segment was accounted for the highest revenue generator in 2022. The purification market is further divided into membrane adsorbers, depth filters. The depth filters segment captured the largest share of the market in 2022 and is expected to maintain its dominance during the forecast period.

Market Segmentation

By product: bioprocess containers, bioreactors, bottles, mixers, single use sampling systems, transfer sets, others

By modality: cell therapy, conventional vaccine, gene therapy, mRNA, protein & monoclonal antibody (mAb)

By bioprocessing: small-scale, mid-scale, large-scale

By application: aseptic filling, cell culture, filtration, mixing, purification, storage, others

By bioreactor capacity: less than 1000L, 1000-2000L, more than 2000L

By component: drug substance, drug product

By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report also provides a detailed analysis of several leading single-use systems market vendors that include Adolf Kuhner AG, Avantor, Inc., BIONET SERVICIOS TECNICOS SL, Corning Incorporated, Danaher Corporation, Distek, Inc., Entegris, Inc., Eppendorf AG, Getinge AB, KBiotech GmbH, Lonza Group AG, Meissner Filtration Products, Inc., Merck KGaA, Pall Corporation, Parker Hannifin Corporation, PBS Biotech, Inc., Rentschler Biopharma SE, Sartorius AG, Thermo Fisher Scientific Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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Scope of the Report

To analyze and forecast the market size of the global single-use systems market.

To classify and forecast the global single-use systems market based on product, modality, bioprocessing, application, bioreactor capacity, component, region.

To identify drivers and challenges for the global single-use systems market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global single-use systems market.

To identify and analyze the profile of leading players operating in the global single-use systems market.

Why Choose This Report

Gain a reliable outlook of the global single-use systems market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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Protein & monoclonal antibody (mAb)

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Small-scale
Mid-scale
Large-scale

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Less than 1000L
1000-2000L
More than 2000L

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Drug substance
Drug product

PART 11. MARKET BREAKDOWN BY REGION

North America
Europe
Asia-Pacific
MEA (Middle East and Africa)
Latin America

PART 12. KEY COMPANIES

Adolf Kuhner AG
Avantor, Inc.

BIONET SERVICIOS TECNICOS SL

Corning Incorporated

Danaher Corporation

Distek, Inc.

Entegris, Inc.

Eppendorf AG

Getinge AB

KBiotech GmbH

Lonza Group AG

Meissner Filtration Products, Inc.

Merck KGaA

Pall Corporation

Parker Hannifin Corporation

PBS Biotech, Inc.

Rentschler Biopharma SE

Sartorius AG

Thermo Fisher Scientific Inc.

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