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Global Single-use Bags for Bioreactor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-use Bags for Bioreactor market size is expected to reach $ 3405 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

In 2025, global sales of single-use bags for bioreactors reached 219,000 units, with an average price of $7,369 per unit.

Single-use bags for bioreactors are flexible plastic container systems designed to replace traditional stainless-steel vessels. They are manufactured using a heat-welding process with multi-layer co-extruded films (typically 3?5 layers, comprising structures such as LDPE/LLDPE layers, EVOH barrier layers, and EVA contact layers) and integrate components such as inlet/outlet tubing, sampling ports, aseptic connectors, and agitator interfaces. Their primary function is to facilitate cell culture, fermentation, or bioreaction processes within a closed, sterile environment. Being disposable after use, they eliminate the need for cleaning and sterilization validation, thereby significantly reducing batch turnaround times and the risk of cross-contamination.

In China market, the key players of single-use bags for bioreactor include Entegris, Corning, etc. the top 3 companies hold a share over 50%. Eastern China is the largest market, with a share about 35%, followed by South China and Central China with the share about 20% respectively. In terms of product, 3D bag is the largest segment, with a share over 60%. And in terms of application, the largest application is bio-pharmaceuticals, with a share over 50%.

The raw materials for single-use bioreactor bags center on multi-layer co-extruded films, typically featuring a 3?5 layer structure: an outer layer of LDPE/LLDPE for mechanical

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strength; a middle layer of EVOH (ethylene-vinyl alcohol copolymer) serving as an oxygen and moisture barrier; and an inner layer of EVA or specially modified PE to ensure biocompatibility and low extractables and leachables (E&L) profiles. Additionally, the assembly incorporates medical-grade silicone tubing (platinum-cured for fluid connections), thermoplastic elastomer (TPE) seals, connection ports made of polycarbonate (PC) or polypropylene (PP), and a limited number of impeller components made from stainless steel or PTFE. These raw materials rely heavily on a limited number of European and American chemical and medical material suppliers (such as Celanese, DuPont, and Borealis). The membrane materials must meet rigorous biocompatibility standards?including USP Class VI and ISO 10993?and the supply chain is characterized by high concentration and lengthy certification cycles; consequently, raw materials account for 50%?65% of total production costs. Regarding the remainder of the cost structure, precision welding and cleanroom assembly account for approximately 20%?30% (involving high-precision processes such as heat sealing, aseptic welding, and integrity testing), while quality inspection and validation (including E&L, sterility, and seal integrity testing) account for about 10%?15%. Additionally, R&D amortization, certification maintenance, and brand premiums further drive up the final selling price, allowing the industry to maintain high overall gross profit margins.

This report studies the global Single-use Bags for Bioreactor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-use Bags for Bioreactor 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 Bags for Bioreactor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-use Bags for Bioreactor total production and demand, 2021-2032, (K Units)
Global Single-use Bags for Bioreactor total production value, 2021-2032, (USD Million)
Global Single-use Bags for Bioreactor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Single-use Bags for Bioreactor consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Single-use Bags for Bioreactor domestic production, consumption, key domestic manufacturers and share

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Global Single-use Bags for Bioreactor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Single-use Bags for Bioreactor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Single-use Bags for Bioreactor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single-use Bags for Bioreactor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Entegris (US), Corning (US), Sartorius (DE), Thermo Fisher Scientific (US), Danaher (US), Merck Millipore (DE), Saint-Gobain (FR), Avantor (US), ABEC (US), Kuhner (CH), 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 Bags for Bioreactor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, 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 Bags for Bioreactor Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Single-use Bags for Bioreactor Market, Segmentation by Type:

2D Bag

3D Bag

Global Single-use Bags for Bioreactor Market, Segmentation by Volume:

2?50 L

50?500 L

1,000?5,000 L

Other

Global Single-use Bags for Bioreactor Market, Segmentation by Reactor Type:

Stirred-tank Single-use Bag

Wave/rocking-motion Bag

Fixed-bed Bag

Other

Global Single-use Bags for Bioreactor Market, Segmentation by Application:

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Bio-Pharmaceuticals

CDMO

Others

Companies Profiled:

Entegris (US)

Corning (US)

Sartorius (DE)

Thermo Fisher Scientific (US)

Danaher (US)

Merck Millipore (DE)

Saint-Gobain (FR)

Avantor (US)

ABEC (US)

Kuhner (CH)

Cellexus (GB)

PBS Biotech (US)

Zhejiang JYSS Bio-Engineering (CN)

Shanghai LePure Biotech Co., Ltd. (CN)

AUSTAR Group (CN)

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

Shanghai Duoning Biotechnology Co., Ltd. (CN)

Key Questions Answered:
1. How big is the global Single-use Bags for Bioreactor market?
2. What is the demand of the global Single-use Bags for Bioreactor market?
3. What is the year over year growth of the global Single-use Bags for Bioreactor market?
4. What is the production and production value of the global Single-use Bags for Bioreactor market?
5. Who are the key producers in the global Single-use Bags for Bioreactor market?
6. What are the growth factors driving the market demand?

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