

# **North America Bioreactors Market Forecast to 2030 - Regional Analysis - by Scale (Lab-Scale Production, Pilot-Scale Production, and Full-Scale Production), Application (Microbial Application, Cell Culture Application, and Others), Technology (Fed-Batch Bioreactors and Perfusion Bioreactors), and End User (Biopharma Manufacturers, Research and Development Organizations, and Contract Manufacturing Organization)**

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## **Abstracts**

The North America bioreactors market was valued at US\$ 1,575.60 million in 2022 and is expected to reach US\$ 2,669.00 million by 2030; it is estimated to grow at a CAGR of 6.8% from 2022 to 2030 .

### **Increasing Adoption of Single-Use Bioreactors Fuels North America Bioreactors Market**

Various manufacturers are developing single-use bioreactors (SUBs) as they are robust and provide the high performance required for commercial manufacturing of biopharmaceuticals. Advantages such as film technologies, stirring mechanisms, bioreactor designs, and sensor systems have contributed toward increasing the adoption of disposable reactors from the lab to the production scale. The single-use bioreactors provide next-generation cell and gene therapies and continuous bioprocessing. The advancements in cell-culture processes have developed higher titers and cell densities, which have facilitated the adoption of SUBs.

Single-use bioreactors reduce the risks of contamination and decrease production

turnaround times. In the last few years, the use of single-use bioreactors has increased in modern biopharmaceutical processes owing to their unique ability to enhance flexibility, reduce investment, and limit operational costs. Also, many companies have developed single-use bioreactors for producing a wide range of therapeutics. For instance, in March 2021, Thermo Fischer Scientific launched the 3,000 L and 5,000 L HyPerforma DynaDrive single-use bioreactors.

The reduction in validation time has been one of the essential benefits of single-use bioreactors. The rising adoption of single-use bioreactors for upstream bioprocessing is driving the market growth. For instance, Sartorius AG offers a wide range of single-use bioreactors. The company provides ambr 15 for a 10–15 mL micro bioreactor scale and Biostat STR for 50–2000L. The increasing acceptance of single-use bioreactors for the production of therapeutics is driving the market for bioreactors.

## North America Bioreactors Market Overview

The US is the largest market for bioreactors—several market players in the US manufacture bioreactors for various applications in pharmaceutical and biotechnology companies. Launch of new bioreactors, geographical expansion, and partnerships by market players drive the growth of the market. In April 2023, BioMADE announced five new projects focused on addressing the research and adoption gaps in bioindustrial manufacturing in the US by advancing bioreactor technology. With a funding commitment of US\$ 10.5 million, these projects would span engineering, hardware development, and scalability to address the barriers to accelerate a robust economy. These projects focus on innovation and will advance the design and development of bioreactors, supported by Schmidt Futures. In April 2023, Cytiva launched X-platform bioreactors to simplify upstream bioprocessing operations with single-use products. Initially, available sizes of bioreactors were 50 and 200L. However, the X-Platform bioreactors are equipped with Figurate automation solution software and can increase process efficiency through ergonomic improvements, production capacity, and simplified supply chain operations.

## North America Bioreactors Market Revenue and Forecast to 2030 (US\$ Million)

### North America Bioreactors Market Segmentation

The North America bioreactors market is segmented based on scale, application, technology, end user, and country. Based on scale, the North America bioreactors market is segmented into lab-scale production, pilot-scale production, and full-scale

production. The pilot-scale production segment held the largest market share in 2022.

In terms of application, the North America bioreactors market is segmented into microbial application, cell culture application, and others. The cell culture application segment held the largest market share in 2022.

By technology, the North America bioreactors market is bifurcated into fed-batch bioreactors and perfusion bioreactors. The fed-batch bioreactors segment held a larger market share in 2022.

Based on end user, the North America bioreactors market is categorized into biopharma manufacturers, research and development organizations, and contract manufacturing organization. The research and development organizations segment held the largest market share in 2022.

Based on country, the North America bioreactors market is segmented into the US, Canada, and Mexico. The US dominated the North America bioreactors market share in 2022.

PBS Biotech Inc, General Electric Co, Merck KGaA, Thermo Fisher Scientific Inc, Sartorius AG, Pall Corp, Solaris Biotechnology SRL, and Applikon Biotechnology BV are some of the leading players operating in the North America bioreactors market.

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