

# **South & Central 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)**

<https://marketpublishers.com/r/SC6B07003F8AEN.html>

Date: June 2024

Pages: 74

Price: US\$ 3,550.00 (Single User License)

ID: SC6B07003F8AEN

## **Abstracts**

The South & Central America bioreactors market was valued at US\$ 246.23 million in 2022 and is expected to reach US\$ 388.31 million by 2030; it is estimated to grow at a CAGR of 5.9% from 2022 to 2030.

### **Rapid Growth of Pharmaceutical and Biotechnology Industry Fuels South & Central America Bioreactors Market**

In recent years, the pharmaceutical industry has been growing at an unprecedented pace. Big pharmaceutical companies and contract research organizations (CROs) are coming up with new medicines and therapy forms to treat a wide range of indications. The biopharmaceuticals market is increasing. The strong demand for biologics and biosimilars has driven the growth of the industry. The biopharmaceutical industry is one of the most significant contributors to the economy. With 105 events approved, Brazil is the world's second-largest producer of biotech crops. According to FAS Brasilia, 68 million hectares will be planted with GE traits during the 2022–2023 agricultural season. Besides growing economies, rapid growth is witnessed in the research environment in

emerging economies such as Brazil, China, and India. Factors such as increasing biologics approval, growing biosimilar pipeline, and rising investment in research activities are facilitating the growth of the industry.

Biopharmaceutical research activities are gaining pace in emerging economies such as Brazil, China, and India and offering lucrative opportunities to the market. Apart from this, increasing approvals in gene and cell therapies are favoring market growth. The approved gene therapies are Glybera-used to treat Lipoprotein Lipase Deficiency and Strimvelis- treating ADA-Severe Combined Immuno Deficiency. Thus, the factors mentioned above are increasing the demand for the large-scale production of various therapeutics, thereby facilitating the growth of the bioreactors market globally.

### South & Central America Bioreactors Market Overview

Brazil has manufacturing plants for a large number of pharmaceutical companies. In addition, many foreign companies often collaborate and partner with Brazilian laboratories and local companies for the development of biotechnology-based medicines. The collaborative efforts are expected to yield the development of novel products in Brazil during the forecast year.

The majority of research is conducted in universities and other federal state institutions in Brazil. As per the DWIH São Paulo, biotechnology research is one of the first-tier priorities in Brazil. Many studies are being carried out in research centers in Brazil to develop advanced bioreactors for their various applications in the biotechnology sector. For instance, in an article published by MDPI in August 2022, a study was conducted by research departments of universities in Brazil. The study presented a mathematical model that was developed to describe and analyze the bioreactor's dynamic behavior during fermentation, taking into account temperature control via refrigerant fluid flow through the reactor jacket.

Similarly, another study, "Development of a Novel Pilot-Scale Tray Bioreactor for Solid-State Fermentation Aiming at Process Intensification," was carried out by researchers in Brazilian universities in November 2023. These research and development activities are anticipated to boost the bioreactor market in Brazil.

South & Central America Bioreactors Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Bioreactors Market Segmentation

The South & Central America bioreactors market is segmented based on scale, application, technology, end user, and country. Based on scale, the South & Central 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 South & Central 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 South & Central 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 South & Central 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 South & Central America bioreactors market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America bioreactors market share in 2022.

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

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