

# **North America Bioreactors and Fermenters Market by Manufacturers, Countries, Type and Application, Forecast to 2023**

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## **Abstracts**

Bioreactors are vessels or tanks in which whole cells or cell-free enzymes transform raw materials into biochemical products and/or less undesirable by-products. The microbial cell itself is a miniature bioreactor; other examples include shake flasks, Petri dishes, and industrial fermentors. Diagnostic products based on enzymatic reactions, farm silos for silage fermentations, bread pans with fermenting yeast, and the soil in a Kansas wheat field may also be viewed as bioreactors. While the bioreactor may be simple or highly instrumented, the important consideration is the ability to produce the desired product or result. The bioreactor is designed and operated to provide the environment for product formation selected by the scientist, baker, or winemaker. It is the heart of many biotechnological systems that are used for agricultural, environmental, industrial, and medical applications. Industrial bioreactors may be operated as batch reactors or continuously, aerobically or anaerobically, and with pure or mixed cultures. In many bioreactors, three phases (gas, liquid, and solid) are present and mass transfer is an important consideration. Biofilms and immobilized cells can be used to retain microbial biomass in a flow bioreactor. Sensors, instrumentation, and control systems are essential for industrial bioreactors.

### **Scope of the Report:**

This report focuses on the Bioreactors and Fermenters in North America market, especially in United States, Canada and Mexico. This report categorizes the market based on manufacturers, countries, type and application.

Market Segment by Manufacturers, this report covers

Sartorius AG ?BBI?

Thermo Fisher

Merck KGaA

Danaher (Pall)

Eppendorf AG

Praj Hipurity Systems

Pierre Guerin (DCI-Biolafitte)

ZETA

Applikon Biotechnology

Bioengineering AG

Infors HT

Solaris

Market Segment by Countries, covering

Single-use Bioreactors

Multiple-use Bioreactors

Market Segment by Type, covers

Biopharmaceutical Companies

CROs

Academic and Research Institutes

Others

Market Segment by Applications, can be divided into

Biopharmaceutical Companies

CROs

Academic and Research Institutes

Others

There are 15 Chapters to deeply display the North America Bioreactors and Fermenters market.

Chapter 1, to describe Bioreactors and Fermenters Introduction, product type and application, market overview, market analysis by countries, market opportunities, market risk, market driving force;

Chapter 2, to analyze the manufacturers of Bioreactors and Fermenters, with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 4, to show the North America market by countries, covering United States, Canada and Mexico, with sales, revenue and market share of Bioreactors and Fermenters, for each country, from 2013 to 2018;

Chapter 5 and 6, to show the market by type and application, with sales, price, revenue, market share and growth rate by type, application, from 2013 to 2018;

Chapter 7, 8 and 9, to analyze the segment market in United States, Canada and Mexico, by manufacturers, type and application, with sales, price, revenue and market share by manufacturers, types and applications;

Chapter 10, Bioreactors and Fermenters market forecast, by countries, type and application, with sales, price and revenue, from 2018 to 2023;

Chapter 11, to analyze the manufacturing cost, key raw materials and manufacturing process etc.

Chapter 12, to analyze the industrial chain, sourcing strategy and downstream end users (buyers);

Chapter 13, to describe sales channel, distributors, traders, dealers etc.

Chapter 14 and 15, to describe Bioreactors and Fermenters Research Findings and Conclusion, Appendix, methodology and data source

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