

# Fermenters Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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## Abstracts

The global fermenters market size reached US\$ 1.4 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 2.2 Billion by 2027, exhibiting a growth rate (CAGR) of 7% during 2022-2027.

Fermenters, also known as stirred-tank bioreactors, are small, economical, sterilized process vessels used to cultivate heterotrophic microalgae. They use probes, sensors, and controlled clean-in-place systems to monitor conditions and maintain optimal levels of microbial growth. At present, they are utilized to manufacture a broad range of products, such as vinegar, cellulose, ethanol, protease, lipase, amylase, streptomycin, citric acid, lactic acid, and glutamic acid. These products find extensive applications in the pulp and paper production, biological wastewater treatment, and industrial solvents worldwide.

### Fermenters Market Trends:

Fermenters can produce large yields quickly, tolerate unusual growth conditions like acidic or high temperatures and be genetically modified. As a result, they are widely utilized in the pharmaceutical industry to produce a wide range of chemical compounds, enzymes, and drugs. The escalating demand for these drugs on account of the rising prevalence of infectious and chronic diseases represents one of the major factors influencing the market positively. Apart from this, the fermentation process destroys harmful microorganisms and chemicals and adds beneficial bacteria that aids in digestion. As a result, fermenters are finding applications in the food and beverage (F&B) industry to preserve and alter the texture of soy products, dairy items, grains, and vegetables. Moreover, the increasing awareness among individuals about the health benefits of consuming fermented food products, which include improving the intestinal tract, immune system, and bioavailability of nutrients, and reducing the chances of

lactose intolerance, allergy, and cancers, is contributing to market growth. Furthermore, fermenters can be incorporated with advanced technologies to facilitate process monitoring, data acquisition and storage, error detection, filtering, unit conversion, and measurement calculations, which is impelling the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global fermenters market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on process, mode of operation, material and end user.

#### Breakup by Process:

- Batch
- Fed-Batch
- Continuous

#### Breakup by Mode of Operation:

- Semi-Automatic
- Automatic

#### Breakup by Material:

- Stainless-Steel
- Glass

#### Breakup by End User:

- Food and Beverages
- Pharmaceutical
- Personal Care
- Others

#### Breakup by Region:

- North America
- United States
- Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Applikon Biotechnology B.V. (Getinge AB), bbi-biotech GmbH, Bioengineering AG, CerCell A/S, Electrolab Biotech Ltd, GEA Group Aktiengesellschaft, General Electric Company, Pierre Guérin SAS (ENGIE Group Company), Sartorius AG, Thermo Fisher Scientific Inc. and ZETA Holding GmbH.

Key Questions Answered in This Report:

How has the global fermenters market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global fermenters market?

What are the key regional markets?

What is the breakup of the market based on the process?

What is the breakup of the market based on the mode of operation?

What is the breakup of the market based on the material?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global fermenters market and who are the key players?

What is the degree of competition in the industry?

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