

Global Hollow Fiber Filtration Market Size study, by Membrane Material (Polysulfone, Polyethersulfone, and Others), Technology (Microfiltration, Ultrafiltration, and Others), Process (Single-use Hollow Fiber Membranes, Reusable Hollow Fiber Membranes), Application (Virus Filtration, Protein Concentration, and Others), End-use (Pharmaceutical & Biotechnology Companies, CMOs & CROs, Academic & Research Institutes), and Regional Forecasts 2022-2032

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Abstracts

The global hollow fiber filtration market, valued at approximately USD 689.5 million in 2023, is anticipated to exhibit a robust CAGR of 14.4% from 2024 to 2032. Hollow fiber filtration, with its pivotal role in continuous manufacturing processes, single-use technologies, and advancements in bioprocess engineering, is revolutionizing the healthcare and biopharmaceutical industries.

Emerging trends, including the widespread adoption of single-use hollow fiber filters for applications such as virus filtration, protein concentration, and diafiltration, are propelling market growth. These filters offer advantages like minimal cross-contamination risks, shorter turnaround times, and flexible production scalability. The rising prevalence of chronic diseases and the surging demand for biopharmaceutical products further amplify the adoption of hollow fiber filtration solutions across pharmaceutical and biotechnology settings.

The COVID-19 pandemic underscored the significance of hollow fiber filtration technology in global healthcare infrastructure. Companies like Asahi Kasei Corporation ramped up production to meet the escalating demand for Planova BioEX filters, highlighting the essential role of hollow fiber membranes in combating viral diseases. Furthermore, the adoption of ultrafiltration and microfiltration technologies is fostering advancements in regenerative medicine, diagnostics, and therapeutic solutions, offering lucrative opportunities for industry players.

Regionally, North America dominates the global market, attributed to strong R&D activities, the presence of major market players, and supportive government initiatives. However, the Asia Pacific region is poised to witness exponential growth, fueled by increasing healthcare investments, advancements in biotechnology, and rising outsourcing activities to contract research organizations (CROs).

Key market participants are actively engaging in mergers, acquisitions, and strategic partnerships to enhance their market presence. For instance, Sartorius AG's establishment of a manufacturing plant in Puerto Rico underscores the industry's commitment to scaling up production capacities and innovation in hollow fiber filtration technologies.

Major market players included in this report are:

Sartorius AG

Repligen Corporation

Danaher Corporation

Merck KGaA

Asahi Kasei Corporation

PARKER HANNIFIN CORP.

Cole Parmer

Sterlitech Corporation

Synder Filtration, Inc.

Meissner Filtration Products, Inc.

Spectrum Laboratories, Inc.

Toray Industries, Inc.

Koch Separation Solutions

Pall Corporation

GE Healthcare

The detailed segments and sub-segment of the market are explained below:

By Membrane Material:

Polysulfone (PS)

Mixed Cellulose Ester

Polyvinylidene Difluoride (PVDF)

Polyethersulfone (PES)

Others

By Process:

Single-use Hollow Fiber Membranes

Reusable Hollow Fiber Membranes

By Technology:

Microfiltration

Ultrafiltration

Others

By Application:

Virus or Viral Vector Filtration

Protein Concentration & Diafiltration

Cell Culture Harvest & Clarification

Raw Material Filtration

Others

By End-use:

Pharmaceutical & Biotechnology Companies

CMOs & CROs

Academic & Research Institutes

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

Australia

Thailand

South Korea

Latin America

Brazil

Mexico

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market.

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