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Global Hollow Fiber Filtration Market 2024

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Abstracts

The demand for hollow fiber filtration (HFF) is experiencing growth driven by several factors, including the increasing adoption of continuous manufacturing processes, the use of single-use technologies, and investments in cell-based technologies.

Among the different types of membranes used in HFF, polyethersulfone (PES) holds the largest market share, accounting for 35.1% of the market in 2023 with a revenue of 239 million USD. The demand for PES membranes is expected to be driven by the growing filtration needs in the biopharmaceutical industries for the production of biologics, vaccines, and therapeutic molecules. Over the forecast period, the PES segment is projected to witness the fastest growth rate of 13.2%, reaching 269 million USD in 2029. This can be attributed to the superior qualities of PES membranes compared to polyamides and polycarbonates, such as high thermal and chemical resistance.

In terms of revenue, the North America Hollow Fiber Filtration Market was valued at USD 248 million in 2023 and is projected to reach USD 566 million by 2029, with a CAGR of 12.5% during the forecast period. The North American market is expected to grow at a lucrative rate due to the increased adoption of biopharmaceuticals and novel technologies for the diagnosis and treatment of clinical disorders in the United States and Canada. Additionally, the region has witnessed higher penetration of proteomic and cell biology-based platforms, leading to an increased adoption of advanced filtration tools. Moreover, the presence of innovative companies and key market players like Repligen, Thermo Fisher Scientific, and Sartorius AG has resulted in a higher penetration of filtration products in the region.

This comprehensive industry report provides market estimates and forecasts, accompanied by a detailed examination of the membrane material, process, technology, application, end-user, and region aspects. It delivers a quantitative analysis of the market, empowering stakeholders to leverage existing market opportunities.

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Furthermore, the report identifies key segments for potential opportunities and strategies, drawing insights from market trends and the approaches of leading competitors.

The global baby bottle market has been extensively analyzed by categorizing it according to various sub-segments in order to provide accurate forecasts of industry size and assess trends within specific areas.

The global market for hollow fiber filtration can be segmented by membrane material: polysulfones (PS), mixed cellulose ester, polyvinylidene difluoride (PVDF), polyethersulfone (PES/PESU), others. The polyethersulfone (PES/PESU) segment was the largest contributor to the global hollow fiber filtration market in 2023, representing more than 35.1% of the total market.

Hollow fiber filtration market is further segmented by process: single-use, reusable. According to the research, the reusable segment had the largest share in the global hollow fiber filtration market, representing more than 54.6% of the total market.

Based on technology, the hollow fiber filtration market is segmented into: microfiltration, ultrafiltration, others. The microfiltration segment held the largest revenue share in 2023, representing more than 52.9% of the total market.

On the basis of application, the hollow fiber filtration market also can be divided into: virus or viral vector filtration, protein concentration & diafiltration, cell culture harvest & clarification, raw material filtration, others. Globally, the protein concentration & diafiltration segment made up the largest share of the hollow fiber filtration market, representing more than 30.4% of the total market.

Hollow fiber filtration market by end-user is categorized into: pharmaceutical, CMOs & CROs, academic, others. The pharmaceutical segment was the largest contributor to the global hollow fiber filtration market in 2023, representing more than 44.1% of the total market.

The hollow fiber filtration market by region can be segmented into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. According to the research, North America had the largest share in the global hollow fiber filtration market.

The report also provides analysis of the key companies of the industry and their detailed company profiles including Sartorius AG, Repligen Corporation, Danaher Corporation,

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Merck KGaA, Asahi Kasei Corporation, Parker Hannifin Corp., Cole-Parmer Instrument Company, LLC, Sterlitech Corporation, Thermo Fisher Scientific., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Why Choose This Report

Gain a reliable outlook of the global hollow fiber filtration market forecasts from 2024 to 2030 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

Market Segments Covered in Global Hollow Fiber Filtration Industry Analysis:

i.) Membrane material

Polysulfones (PS)

Mixed cellulose ester

Polyvinylidene difluoride (PVDF)

Polyethersulfone (PES/PESU)

Others

ii.) Process

Single-use

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Reusable

iii.) Technology

Microfiltration

Ultrafiltration

Others

iv.) Application

Virus or viral vector filtration

Protein concentration & diafiltration

Cell culture harvest & clarification

Raw material filtration

Others

v.) End-user

Pharmaceutical

CMOs & CROs

Academic

Others

vi.) Region

North America

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Europe

Asia-Pacific

MEA (Middle East and Africa)

Latin America

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