

Hollow Fiber Filtration Market by Material (Polymer (PES, PVDF), Ceramic), Technique (Microfiltration, Ultrafiltration), Application (Harvest & Clarification, Concentration, Diafiltration), End Users (Pharma, Biotech, CRO, CMO) - Global Forecast to 2026

<https://marketpublishers.com/r/H5F42C40A9EEN.html>

Date: June 2021

Pages: 177

Price: US\$ 4,950.00 (Single User License)

ID: H5F42C40A9EEN

Abstracts

The global hollow fiber filtration market is projected to reach USD 597million by 2026 from USD 303 million in 2021, at a CAGR of 14.5% during the forecast period. The growth of the global hollow fiber filtration market is driven by factors such as the rising preference for continuous manufacturing, increasing use of single use technologies, and the rising biopharmaceutical industry. In addition, emerging economies, and increased investment cell-based research are expected to provide significant growth opportunities for players in the hollow fiber filtration market.

“By material segment, the polymeric segment accounted for the largest share of the Hollow fiber filtrationmarket”

Based on material, the hollow fiber filtration market is segmented into polymeric and ceramic filters. The polymeric segment is further sub segmented into polysulfide/polyethersulfone (PS/PES), polyvinylidene fluoride (PVDF), and other polymeric materials (cellulose & cellulose acetate, mixed cellulose ester, and polypropylene). In 2020, the polymeric segment accounted for the largest market share of the hollow fiber filtration market. The large share of this segment is primarily attributed to the hydrophilic nature of PES/PS, low protein-binding properties, and its wide range of applications.

“By application, the continuous cell perfusion segmentaccounted for the largest share of the Hollow fiber filtration market”

Based on application type, the hollow fiber filtration market is segmented into continuous cell perfusion, harvest and clarification, and concentration and diafiltration. In 2020, continuous cell perfusion accounted for the largest market share due to the advantages of hollow fibers in continuous cell perfusion, such as enabling efficient cell separation (with low shear) and allowing robust large-scale manufacturing.

“By technique, the microfiltration segment accounted for the largest market share of the Hollow fiber filtration market”

Based on application, the hollow fiber filtration market is segmented into microfiltration and ultrafiltration. In 2020, the microfiltration segment accounted for the largest share of the global hollow fiber filtration market due to the availability of a wide range of pore sizes which have vast applications such as separation of a virus, bacteria, aerosols, and innumerable macromolecules from fluids, without the requirement of autoclaving a procedure.

“By end users, the pharmaceutical and biotechnology manufacturers accounted for the largest market share of the Hollow fiber filtration market”

Based on end users, the hollow fiber filtration market is segmented into pharmaceutical and biotechnology manufacturers, contract research organizations (CROs) & contract manufacturing organizations (CMOs), and other end users. In 2020, the pharmaceutical and biotechnology manufacturers segment accounted for the largest share of the hollow fiber filtration market. The large share of this segment is attributed to the increasing demand for hollow fiber filters in ultrafiltration, diafiltration, and microfiltration processes in biopharmaceutical manufacturing and the growing adoption of continuous manufacturing processes (due to advantages such as improved manufacturing process efficiency and flexibility).

“Asia Pacific: The fastest-growing region in the Hollow fiber filtration market.”

The Asia Pacific market is projected to witness the highest growth rate during the forecast period, primarily due to innovation, a giant talent pool of scientists, low labor, and manufacturing costs. The region has also witnessed mass production because of technology and a rise in continuous manufacturing instead of batch production in the previous era.

Asia Pacific region is also a lucrative market for foreign investors, with key market

players having their presence in the region. Over the last decade, CMOs in the Asia Pacific region have impacted the global pharmaceutical manufacturing market. Several small and medium-scale CMOs set up in APAC have obtained US FDA approval for their operations and completed GMP certifications, thus driving the region's hollow fiber filtration market.

“North America accounted for the largest share of the Hollow fiber filtration market in 2020”

North America accounted for the largest share of the hollow fiber filtration market in 2020. The large share of this region can be attributed to the companies in North America mainly focusing on new products such as perfusion systems, convenience, and cost-efficiency of hollow fiber filters and the rising demand for filtration systems for the biopharmaceuticals industry.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Respondent— Supply Side- 70%, Demand Side-30%

By Designation— CXOs and Directors- 30%, Executives - 25%, Managers - 45%

By Region— North America -40%, Europe - 25%, APAC – 20%, LATAM- 10%, MEA- 5%

The Hollow fiber filtration market is dominated by a few globally established players such as Repligen Corporation (US), Danaher (US), Asahi Kasei Corporation (Japan), Parker-Hannifin Corp (US), Sartorius Stedim Biotech S.A (France), TOYOBO CO., LTD(Japan), Cantel Medical (US), Kuraray Co., Ltd. (Japan), Koch Industries Inc. (US), MANN+HUMMEL Holding GmbH (Germany), CoorsTek, Inc. (US), Alpha Plan GmbH (Germany), Antylia Scientific (Germany), Meissner Filtration Product, Inc (US), MMS Membrane System (Switzerland), BiOZEEN Pvt. Ltd. (India), Biotree (India), and APAH technologies (India).

Research Coverage:

The report segments the hollow fiber filtrationmarket based on region (Asia Pacific, Europe, North America, Latin America, and Middle East and Africa), material(polymeric and ceramic), application(continuous cell perfusion, harvest and clarification, concentration and diafiltration), technique (microfiltration and ultrafiltration), and end users(pharmaceutical and biotechnology manufacturing companies, contract research organization and contract manufacturing organization, and other end users.). The report also provides a comprehensive review of market drivers, opportunities, challenges, and trends in thehollow fiber filtrationmarket.

Key Benefits of Buying the Report:

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the hollow fiber filtrationmarket and provides them information on key market drivers, opportunities, and challenges.

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 MARKET DEFINITION

1.3 INCLUSIONS & EXCLUSIONS

TABLE 1 HOLLOW FIBER FILTRATION MARKET, BY MATERIAL:
INCLUSIONS & EXCLUSIONS

TABLE 2 HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE:
INCLUSIONS & EXCLUSIONS

TABLE 3 HOLLOW FIBER FILTRATION MARKET, BY APPLICATION:
INCLUSIONS & EXCLUSIONS

TABLE 4 HOLLOW FIBER FILTRATION MARKET, BY END USERS:
INCLUSIONS & EXCLUSIONS

1.4 MARKET SCOPE

1.4.1 MARKETS COVERED

1.4.2 YEARS CONSIDERED FOR THE STUDY

1.5 CURRENCY

1.6 LIMITATIONS

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

FIGURE 2 PRIMARY SOURCES

FIGURE 3 HOLLOW FIBER FILTRATION MARKET: BREAKDOWN OF PRIMARIES

2.1.2.1 Key industry insights

2.2 MARKET SIZE ESTIMATION

FIGURE 4 MARKET SIZE ESTIMATION: REVENUE SHARE ANALYSIS, 2020

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP (SUPPLY SIDE): COLLECTIVE REVENUE OF ALL HOLLOW FIBER FILTRATION PRODUCTS

FIGURE 6 HOLLOW FIBER FILTRATION MARKET: CAGR PROJECTIONS, 2021–2026

FIGURE 7 HOLLOW FIBER FILTRATION MARKET: GROWTH ANALYSIS OF

DRIVERS, OPPORTUNITIES, AND CHALLENGES

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 8 DATA TRIANGULATION METHODOLOGY

2.4 RESEARCH LIMITATION

2.5 RESEARCH ASSUMPTIONS

2.6 RISK ANALYSIS

3 EXECUTIVE SUMMARY

FIGURE 9 HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2021 VS. 2026
(USD MILLION)

FIGURE 10 HOLLOW FIBER FILTRATION MARKET SHARE, BY APPLICATION, 2020

FIGURE 11 HOLLOW FIBER FILTRATION MARKET, BY END USER, 2021?2026

FIGURE 12 GEOGRAPHICAL SNAPSHOT OF THE HOLLOW FIBER FILTRATION
MARKET

4 PREMIUM INSIGHTS

4.1 HOLLOW FIBER FILTRATION OVERVIEW

FIGURE 13 GROWTH IN THE BIOPHARMACEUTICAL INDUSTRY IS A KEY
FACTOR EXPECTED TO DRIVE MARKET GROWTH DURING THE FORECAST
PERIOD

4.2 ASIA PACIFIC: HOLLOW FIBER FILTRATION, BY APPLICATION & COUNTRY (2020)

FIGURE 14 CONTINUOUS CELL PERFUSION ACCOUNTED FOR THE LARGEST
SHARE OF THE ASIA PACIFIC MARKET IN 2020

4.3 HOLLOW FIBER FILTRATION MATERIAL FOR POLYMER MATERIAL, BY TYPE

FIGURE 15 THE POLYSULFONE /POLYETHERSULFONE SEGMENT IS
PROJECTED TO WITNESS THE HIGHEST GROWTH DURING THE FORECAST
PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 16 HOLLOW FIBER FILTRATION MARKET: DRIVERS, OPPORTUNITIES,
AND CHALLENGES

5.2.1 MARKET DRIVERS

5.2.1.1 Growth in the biopharmaceutical industry

TABLE 5 INDICATIVE LIST OF BIOLOGICAL LICENSE APPLICATION APPROVALS, 2020 AND 2021

5.2.1.2 Increasing preference for continuous manufacturing

5.2.1.3 Increasing usage of single-use technologies

5.2.2 MARKET OPPORTUNITIES

5.2.2.1 Emerging economies

5.2.2.2 Increasing investments in cell-based research

5.2.3 MARKET CHALLENGES

5.2.3.1 Membrane fouling and fiber breakage

5.3 RANGES/ SCENARIOS

FIGURE 17 DEPENDING ON HOW THE UNCERTAINTIES UNFOLD, WE SEE A SPECTRUM OF SCENARIOS FOR THE HOLLOW FIBER FILTRATION MARKET - 2020

5.4 IMPACT OF COVID-19 ON THE HOLLOW FIBER FILTRATION MARKET

5.5 TECHNOLOGY ANALYSIS

5.6 ECOSYSTEM ANALYSIS OF HOLLOW FIBER FILTRATION MARKET

FIGURE 18 ECOSYSTEM ANALYSIS OF THE HOLLOW FIBER FILTRATION MARKET

TABLE 6 HOLLOW FIBER FILTRATION MARKET: ECOSYSTEM

5.7 PATENT ANALYSIS

5.7.1 LIST OF MAJOR PATENTS

FIGURE 19 NUMBER OF PATENTS GRANTED IN THE LAST 20 YEARS

TABLE 7 TOP 10 GRANTED PATENT OWNERS (US) IN THE LAST 20 YEARS

FIGURE 20 TOP 10 PLAYERS WITH THE HIGHEST NUMBER OF PATENT APPLICATIONS

5.8 YC, YCC SHIFT

FIGURE 21 YC-YCC SHIFT FOR THE HOLLOW FIBER FILTRATION MARKET

5.9 REGULATORY ANALYSIS

5.9.1 UNITED STATES PHARMACOPOEIA (USP) CLASS VI

5.9.2 CURRENT GOOD MANUFACTURING PRACTICE

5.10 SUPPLY CHAIN ANALYSIS

FIGURE 22 SUPPLY CHAIN ANALYSIS OF THE HOLLOW FIBER FILTRATION MARKET

5.11 PORTER'S FIVE FORCES ANALYSIS

TABLE 8 HOLLOW FIBER FILTRATION MARKET: PORTER'S FIVE FORCES ANALYSIS

5.11.1 THREAT OF NEW ENTRANTS

5.11.2 THREAT OF SUBSTITUTES

5.11.3 BARGAINING POWER OF SUPPLIERS

5.11.4 BARGAINING POWER OF BUYERS

5.11.5 INTENSITY OF COMPETITIVE RIVALRY

6 HOLLOW FIBER FILTRATION MARKET, BY MATERIAL

6.1 INTRODUCTION

TABLE 9 HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

6.2 POLYMERIC

TABLE 10 POLYMERIC HOLLOW FIBER FILTRATION MARKET, BY REGION, 2019–2026 (USD MILLION)

TABLE 11 NORTH AMERICA: POLYMERIC HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 12 EUROPE: POLYMERIC HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 13 ASIA PACIFIC: POLYMERIC HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 14 POLYMERIC HOLLOW FIBER FILTRATION MARKET, BY TYPE, 2019–2026 (USD MILLION)

6.2.1 PS/PES

6.2.1.1 High reliability and wide applications of PS/PES for biological & pharmaceutical solutions

TABLE 15 HOLLOW FIBER FILTRATION MARKET FOR PS/PES, BY REGION, 2019–2026 (USD MILLION)

TABLE 16 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR PS/PES, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 17 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR PS/PES, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 18 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR PS/PES, BY COUNTRY, 2019–2026 (USD MILLION)

6.2.2 POLYVINYLDENE FLUORIDE (PVDF)

6.2.2.1 Usage in protein purification and cell separation has ensured a steady demand for PVDF material membranes

TABLE 19 HOLLOW FIBER FILTRATION MARKET FOR PVDF, BY REGION, 2019–2026 (USD MILLION)

TABLE 20 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR PVDF, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 21 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR PVDF, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 22 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR PVDF, BY COUNTRY, 2019–2026 (USD MILLION)

6.2.3 OTHER POLYMERIC MATERIALS

TABLE 23 HOLLOW FIBER FILTRATION MARKET FOR OTHER POLYMERIC MATERIALS, BY REGION, 2019–2026 (USD MILLION)

TABLE 24 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR OTHER POLYMERIC MATERIALS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 25 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR OTHER POLYMERIC MATERIALS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 26 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR OTHER POLYMERIC MATERIALS, BY COUNTRY, 2019–2026 (USD MILLION)

6.3 CERAMIC

6.3.1 THE BIO-INERT NATURE OF CERAMICS MAKES THEM IDEAL FOR PROTEIN FILTRATION

TABLE 27 CERAMIC HOLLOW FIBER FILTRATION MARKET, BY REGION, 2019–2026 (USD MILLION)

TABLE 28 NORTH AMERICA: CERAMIC HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 29 EUROPE: CERAMIC HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 30 ASIA PACIFIC: CERAMIC HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

7 HOLLOW FIBER FILTRATION MARKET, BY APPLICATION

7.1 INTRODUCTION

TABLE 31 HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

7.2 CONTINUOUS CELL PERFUSION

7.2.1 INCREASING ADOPTION OF HOLLOW FIBER CARTRIDGES IN CONTINUOUS PERFUSION CULTURE TO DRIVE THE MARKET GROWTH

TABLE 32 HOLLOW FIBER FILTRATION MARKET FOR CONTINUOUS CELL PERFUSION, BY REGION, 2019–2026 (USD MILLION)

TABLE 33 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR CONTINUOUS CELL PERFUSION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 34 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR CONTINUOUS CELL PERFUSION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 35 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR CONTINUOUS CELL PERFUSION, BY COUNTRY, 2019–2026 (USD MILLION)

7.3 HARVEST AND CLARIFICATION

7.3.1 THE INCREASING ADOPTION OF HOLLOW FIBER FILTRATION FOR VACCINE DEVELOPMENT DRIVES THE GROWTH OF THIS SEGMENT

TABLE 36 HOLLOW FIBER FILTRATION MARKET FOR HARVEST AND CLARIFICATION, BY REGION, 2019–2026 (USD MILLION)

TABLE 37 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR HARVEST AND CLARIFICATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 38 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR HARVEST AND CLARIFICATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 39 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR HARVEST AND CLARIFICATION, BY COUNTRY, 2019–2026 (USD MILLION)

7.4 CONCENTRATION AND DIAFILTRATION

7.4.1 HOLLOW FIBER DIAFILTRATION DEVICES CAN BE DIRECTLY SCALED UP FROM R&D VOLUMES TO PRODUCTION EFFICIENTLY

TABLE 40 HOLLOW FIBER FILTRATION MARKET FOR CONCENTRATION AND DIAFILTRATION, BY REGION, 2019–2026 (USD MILLION)

TABLE 41 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR CONCENTRATION AND DIAFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 42 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR CONCENTRATION AND DIAFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 43 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR CONCENTRATION AND DIAFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

8 HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE

8.1 INTRODUCTION

TABLE 44 HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

8.2 MICROFILTRATION

8.2.1 INCREASING ADOPTION OF MICROFILTRATION TECHNIQUES IN THE CLARIFICATION AND SEPARATION OF CELL DEBRIS TO DRIVE THE MARKET GROWTH

TABLE 45 HOLLOW FIBER FILTRATION MARKET FOR MICROFILTRATION, BY PORE SIZE, 2019–2026 (USD MILLION)

TABLE 46 HOLLOW FIBER FILTRATION MARKET FOR MICROFILTRATION, BY REGION, 2019–2026 (USD MILLION)

TABLE 47 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR MICROFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 48 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR

MICROFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 49 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR
MICROFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

8.3 ULTRAFILTRATION

8.3.1 ULTRAFILTRATION HAS WIDE APPLICATIONS IN DOWNSTREAM
PROCESSING

TABLE 50 HOLLOW FIBER FILTRATION MARKET FOR ULTRAFILTRATION, BY
TYPE, 2019–2026 (USD MILLION)

TABLE 51 HOLLOW FIBER FILTRATION MARKET FOR ULTRAFILTRATION, BY
REGION, 2019–2026 (USD MILLION)

TABLE 52 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR
ULTRAFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 53 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR
MICROFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 54 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR
ULTRAFILTRATION, BY COUNTRY, 2019–2026 (USD MILLION)

9 HOLLOW FIBER FILTRATION MARKET, BY END USER

9.1 INTRODUCTION

TABLE 55 HOLLOW FIBER FILTRATION MARKET, BY END USER, 2019–2026 (USD
MILLION)

9.2 PHARMACEUTICAL AND BIOTECHNOLOGY MANUFACTURERS

9.2.1 INCREASING ADOPTION OF CONTINUOUS MANUFACTURING TO DRIVE
THE DEMAND FOR HOLLOW FIBER FILTERS BY PHARMACEUTICAL &
BIOTECHNOLOGY MANUFACTURERS

TABLE 56 HOLLOW FIBER FILTRATION MARKET FOR PHARMACEUTICAL AND
BIOTECHNOLOGY MANUFACTURERS, BY REGION, 2019–2026 (USD MILLION)

TABLE 57 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR
PHARMACEUTICAL AND BIOTECHNOLOGY MANUFACTURERS, BY COUNTRY,
2019–2026 (USD MILLION)

TABLE 58 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR
PHARMACEUTICAL AND BIOTECHNOLOGY MANUFACTURERS, BY COUNTRY,
2019–2026 (USD MILLION)

TABLE 59 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR
PHARMACEUTICAL AND BIOTECHNOLOGY MANUFACTURERS, BY COUNTRY,
2019–2026 (USD MILLION)

9.3 CONTRACT RESEARCH ORGANIZATIONS & CONTRACT MANUFACTURING
ORGANIZATIONS (CROS & CMOS)

9.3.1 GROWING OUTSOURCING OF R&D AND MANUFACTURING OF BIOPHARMACEUTICALS TO CROS AND CMOS TO SUPPORT MARKET GROWTH
TABLE 60 HOLLOW FIBER FILTRATION MARKET FOR CROS & CMOS, BY REGION, 2019–2026 (USD MILLION)

TABLE 61 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR CROS & CMOS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 62 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR CROS & CMOS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 63 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR CROS & CMOS, BY COUNTRY, 2019–2026 (USD MILLION)

9.4 OTHER END USERS

TABLE 64 HOLLOW FIBER FILTRATION MARKET FOR OTHER END USERS, BY REGION, 2019–2026 (USD MILLION)

TABLE 65 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR OTHER END USERS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 66 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR OTHER END USERS, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 67 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR OTHER END USERS, BY COUNTRY, 2019–2026 (USD MILLION)

10 HOLLOW FIBER FILTRATION MARKET, BY REGION

10.1 INTRODUCTION

TABLE 68 HOLLOW FIBER FILTRATION MARKET, BY REGION, 2019–2026 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 23 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET SNAPSHOT

TABLE 69 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 70 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 71 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 72 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 73 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 74 NORTH AMERICA: HOLLOW FIBER FILTRATION MARKET, BY END USER, 2019–2026 (USD MILLION)

10.2.1 US

10.2.1.1 The US is expected to dominate the North American hollow fiber filtration market during the forecast period

TABLE 75 US: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 76 US: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 77 US: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 78 US: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 79 US: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.2.2 CANADA

10.2.2.1 Availability of funding by the government will support market growth in Canada

TABLE 80 CANADA: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 81 CANADA: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 82 CANADA: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 83 CANADA: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 84 CANADA: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.3 EUROPE

TABLE 85 EUROPE: HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 86 EUROPE: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 87 EUROPE: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 88 EUROPE: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 89 EUROPE: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 90 EUROPE: HOLLOW FIBER FILTRATION MARKET, BY END USER, 2019–2026 (USD MILLION)

10.3.1 GERMANY

10.3.1.1 Increasing investments in biologics to drive the market growth for hollow fiber filters in Germany

TABLE 91 GERMANY: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 92 GERMANY: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 93 GERMANY: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 94 GERMANY: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 95 GERMANY: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.3.2 UK

10.3.2.1 The presence of leading research institutes and benefits granted by the government to drive the market growth in the UK

TABLE 96 UK: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 97 UK: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 98 UK: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 99 UK: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 100 UK: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.3.3 FRANCE

10.3.3.1 Increasing public research funding by the government to boost the growth of the biopharmaceutical industry in France

TABLE 101 FRANCE: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 102 FRANCE: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 103 FRANCE: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 104 FRANCE: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 105 FRANCE: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.3.4 ITALY

10.3.4.1 Increasing pharmaceutical production to drive the market growth for hollow fiber filtration in Italy

TABLE 106 ITALY: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 107 ITALY: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 108 ITALY: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 109 ITALY: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 110 ITALY: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.3.5 SPAIN

10.3.5.1 Expansion of biopharmaceutical manufacturing facilities in Spain to support the market growth of hollow fiber filtration

TABLE 111 SPAIN: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 112 SPAIN: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 113 SPAIN: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 114 SPAIN: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 115 SPAIN: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.3.6 REST OF EUROPE (ROE)

TABLE 116 ROE: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 117 ROE: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 118 ROE: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 119 ROE: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 120 ROE: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.4 ASIA PACIFIC

FIGURE 24 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET SNAPSHOT

TABLE 121 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET, BY COUNTRY, 2019–2026 (USD MILLION)

TABLE 122 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 123 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 124 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 125 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 126 ASIA PACIFIC: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.4.1 CHINA

10.4.1.1 Rising government support for drug development to support the market growth in China

TABLE 127 CHINA: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 128 CHINA: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 129 CHINA: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 130 CHINA: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 131 CHINA: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.4.2 JAPAN

10.4.2.1 Investments by market players for research and development to drive the market growth for hollow fiber filters in Japan

TABLE 132 JAPAN: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 133 JAPAN: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 134 JAPAN: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 135 JAPAN: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 136 JAPAN: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.4.3 INDIA

10.4.3.1 Increasing growth of the pharmaceutical industry in India to support the market growth

TABLE 137 INDIA: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 138 INDIA: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 139 INDIA: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 140 INDIA: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 141 INDIA: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.4.4 REST OF ASIA PACIFIC

TABLE 142 ROAPAC: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 143 ROAPAC: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 144 ROAPAC: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 145 ROAPAC: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 146 ROAPAC: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.5 LATIN AMERICA

10.5.1 INVESTMENTS FOR THE GROWING BIOPHARMACEUTICAL INDUSTRY IN THE REGION TO BOOST MARKET GROWTH

TABLE 147 LATAM: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 148 LATAM: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 149 LATAM: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 150 LATAM: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 151 LATAM: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

10.6 MIDDLE EAST & AFRICA (MEA)

10.6.1 FOCUS ON BIOLOGICS DEVELOPMENT TO SUPPORT MARKET GROWTH IN THIS REGION

TABLE 152 MEA: HOLLOW FIBER FILTRATION MARKET, BY MATERIAL, 2019–2026 (USD MILLION)

TABLE 153 MEA: HOLLOW FIBER FILTRATION MARKET FOR POLYMERIC MATERIAL, BY TYPE, 2019–2026 (USD MILLION)

TABLE 154 MEA: HOLLOW FIBER FILTRATION MARKET, BY TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 155 MEA: HOLLOW FIBER FILTRATION MARKET, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 156 MEA: HOLLOW FIBER FILTRATION MARKET, BY END USERS, 2019–2026 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 RIGHT-TO-WIN APPROACH ADOPTED BY KEY MARKET PLAYERS

FIGURE 25 OVERVIEW OF STRATEGIES ADOPTED BY KEY HOLLOW FIBER FILTRATION PLAYERS

11.2 MARKET SHARE ANALYSIS

FIGURE 26 HOLLOW FIBER FILTRATION MARKET: MARKET SHARE ANALYSIS OF KEY PLAYERS, 2020

TABLE 157 HOLLOW FIBER FILTRATION MARKET: DEGREE OF COMPETITION

11.3 COMPETITIVE LEADERSHIP MAPPING

11.3.1 STARS

11.3.2 EMERGING LEADERS

11.3.3 PERVASIVE PLAYERS

11.3.4 PARTICIPANTS

FIGURE 27 HOLLOW FIBER FILTRATION MARKET: COMPANY EVALUATION MATRIX (2020)

11.4 COMPETITIVE BENCHMARKING

11.4.1 COMPANY PRODUCT FOOTPRINT (18 COMPANIES)

TABLE 158 COMPANY INDUSTRY FOOTPRINT (18 COMPANIES)

TABLE 159 COMPANY REGION FOOTPRINT (18 COMPANIES)

11.5 GROWTH STRATEGIES ADOPTED BY MAJOR AND EMERGING PLAYERS

TABLE 160 HOLLOW FIBER FILTRATION MARKET: KEY DEALS (JANUARY 2018 TO JUNE 2021)

TABLE 161 HOLLOW FIBER FILTRATION MARKET: OTHER DEVELOPMENTS (JANUARY 2018 TO JUNE 2021)

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

12.1 REPLIGEN CORPORATION

TABLE 162 REPLIGEN CORPORATION: BUSINESS OVERVIEW

FIGURE 28 REPLIGEN CORPORATION: COMPANY SNAPSHOT (2020)

TABLE 163 REPLIGEN CORPORATION: PRODUCT OFFERINGS

12.2 DANAHER

TABLE 164 DANAHER: BUSINESS OVERVIEW

FIGURE 29 DANAHER: COMPANY SNAPSHOT (2020)

TABLE 165 DANAHER: PRODUCT OFFERINGS

12.3 ASAHI KASEI CORPORATION

TABLE 166 ASAHI KASEI CORPORATION: BUSINESS OVERVIEW

FIGURE 30 ASAHI KASEI CORPORATION: COMPANY SNAPSHOT (2020)

TABLE 167 ASAHI KASEI CORPORATION: PRODUCT OFFERINGS

12.4 PARKER HANNIFIN CORP

TABLE 168 PARKER HANNIFIN CORP: BUSINESS OVERVIEW

FIGURE 31 PARKER HANNIFIN CORP: COMPANY SNAPSHOT (2020)

TABLE 169 PARKER HANNIFIN CORP: PRODUCT OFFERINGS

12.5 SARTORIUS STEDIM BIOTECH S.A.

TABLE 170 SARTORIUS STEDIM BIOTECH: BUSINESS OVERVIEW

FIGURE 32 SARTORIUS STEDIM BIOTECH: COMPANY SNAPSHOT (2020)

12.6 TOYOBO CO., LTD.

TABLE 172 TOYOBO CO. LTD.: BUSINESS OVERVIEW

FIGURE 33 TOYOBO CO. LTD.: COMPANY SNAPSHOT (2020)

TABLE 173 TOYOBO CO. LTD.: PRODUCT OFFERINGS

12.7 CANTEL MEDICAL

TABLE 174 CANTEL MEDICAL: BUSINESS OVERVIEW

FIGURE 34 CANTEL MEDICAL: COMPANY SNAPSHOT (2020)

TABLE 175 CANTEL MEDICAL: PRODUCT OFFERINGS

12.8 KURARAY CO. LTD.

TABLE 176 KURARAY CO. LTD.: BUSINESS OVERVIEW

FIGURE 35 KURARAY CO. LTD.: COMPANY SNAPSHOT (2020)

TABLE 177 KURARAY CO. LTD.: PRODUCT OFFERINGS

12.9 KOCH INDUSTRIES, INC.

TABLE 178 KOCH INDUSTRIES, INC.: BUSINESS OVERVIEW

TABLE 179 KOCH INDUSTRIES: PRODUCT OFFERINGS

12.10 MANN+HUMMEL HOLDING GMBH

TABLE 180 MANN+HUMMEL: BUSINESS OVERVIEW

TABLE 181 MANN+HUMMEL HOLDING GMBH: PRODUCT OFFERINGS

12.11 COORSTEK INC.

TABLE 182 COORSTEK INC.: BUSINESS OVERVIEW

TABLE 183 COORSTEK INC.: PRODUCT OFFERINGS

12.12 ALPHA PLAN GMBH.

TABLE 184 ALPHA PLAN GMBH: BUSINESS OVERVIEW

TABLE 185 ALPHA PLAN GMBH: PRODUCT OFFERINGS

12.13 ANTYLIA SCIENTIFIC

TABLE 186 ANTYLIA SCIENTIFIC: BUSINESS OVERVIEW

TABLE 187 ANTYLIA SCIENTIFIC: PRODUCT OFFERINGS

12.14 MEISSNER FILTRATION PRODUCTS, INC

TABLE 188 MEISSNER FILTRATION PRODUCTS, INC: BUSINESS OVERVIEW

TABLE 189 MEISSNER FILTRATION PRODUCT, INC: PRODUCT OFFERINGS

12.15 MMS MEMBRANE SYSTEMS

TABLE 190 MMS MEMBRANE SYSTEMS: BUSINESS OVERVIEW

TABLE 191 MMS MEMBRANE SYSTEMS: PRODUCT OFFERINGS

12.16 BIOZEEN PVT. LTD.

TABLE 192 BIOZEEN: COMPANY OVERVIEW

12.17 BIOTREE

TABLE 193 BIOTREE: COMPANY OVERVIEW

12.18 APAH TECHNOLOGIES

TABLE 194 APAH TECHNOLOGIES: COMPANY OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.3 AVAILABLE CUSTOMIZATIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

I would like to order

Product name: Hollow Fiber Filtration Market by Material (Polymer (PES, PVDF), Ceramic), Technique (Microfiltration, Ultrafiltration), Application (Harvest & Clarification, Concentration, Diafiltration), End Users (Pharma, Biotech, CRO, CMO) - Global Forecast to 2026

Product link: <https://marketpublishers.com/r/H5F42C40A9EEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/H5F42C40A9EEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970