

Single-use Bioprocessing Market Size, Share & Trends Analysis Report By Product (Work Equipment, Apparatus & Plants), By Workflow (Upstream, Downstream), By End-use, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Single-use Bioprocessing Market Growth & Trends

The global single-use bioprocessing market size is projected to reach USD 79.47 billion by 2030, registering a compound annual growth rate (CAGR) of 16.6% over the forecast period, according to a new report by Grand View Research, Inc. The demand for single-use bioprocessing offerings is driven by the commercial advantages offered, including a reduction in costs and time required for bioprocessing operations. Originally used for monoclonal antibody production, single-use technologies are also gaining traction for cell and gene therapy manufacturing. As a result, broadening the scope of applications in biomanufacturing operations is likely to drive industry growth.

Furthermore, strategic initiatives from key players are expanding the industry's growth prospects. For instance, in July 2021, Cytiva and Pall Corp. announced investment plans for capacity expansion over two years. Among other key products, more than USD 300 million were invested in single-use technologies, such as bioreactor bags for cell expansion, used to make personalized therapies and syringe filters for scientific research. Similarly, the growing adoption of single-use equipment for in-house and contract manufacturing has opened new avenues for the flow of investments in this space. The industry is witnessing significant advancements in several product portfolios, including disposable probes and sensors, stirring systems, bioreactor designs, and

filtration technologies, which are expected to contribute to strong revenue growth.

The benefits offered by single-use bioprocessing systems have enabled biopharmaceutical manufacturers to offer their products faster to the market by introducing multi-product facilities, entering into partnerships, or outsourcing pipeline products for contract development and manufacturing. For instance, in January 2021, Sartorius AG partnered with RoosterBio, a leading supplier of human Mesenchymal Stem/Stromal Cells (hMSC). This collaboration aimed at advancing cell & gene therapy manufacturing by leveraging the single-use manufacturing technologies from Sartorius AG. The COVID-19 pandemic has generated new growth opportunities for key stakeholders in the industry.

Key biopharmaceutical players can leverage the opportunity by expanding their COVID-19-related product offerings by scaling up their production facilities with the implementation of single-use bioprocessing equipment. A significant number of biopharmaceutical companies are actively involved in the development and production of COVID-19 vaccines. These programs are majorly based on single-use technologies as these systems are flexible, cost-effective, and reduce the risk of cross-contamination. Such an ongoing and continuous increase in the adoption of bioprocessing systems due to the COVID-19 pandemic is anticipated to drive industry growth.

Single-use Bioprocessing Market Report Highlights

The simple & peripheral elements segment held the largest share in 2021 due to the significant adoption of these products as a result of a variety of customizable options available for bioprocessing applications

The upstream bioprocessing workflow segment accounted for the largest share in 2021. Continuous developments and betterment in technologies for upstream bioprocessing are driving the segment growth

North America was the leading region in 2021 due to the high R&D spending and growth of the biopharmaceutical manufacturing sector in the region

Furthermore, the presence of key players, such as Thermo Fisher Scientific, Inc. and Danaher Corp., is driving the regional market

The biopharmaceutical manufacturers end-use segment dominated the industry

in 2021 and accounted for the maximum revenue share. This was due to the high demand for biologics and heavy investments in cell & gene therapy manufacturing

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research Methodology
- 1.2 Research Assumptions
 - 1.2.1 Estimates And Forecast Timeline
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 Gvr's Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Primary Research
 - 1.3.5 Details Of Primary Research
- 1.4 Information Or Data Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation & Validation

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Competitive Milieu
- 2.2 Market Summary
- 2.3 Segment Outlook

CHAPTER 3 MARKET VARIABLES, TRENDS, & SCOPE

- 3.1 Parent Market Analysis
- 3.2 Market Dynamics
 - 3.2.1 Market Driver Analysis
 - 3.2.1.1 Several Advantages Associated With Implementation Of Single Use Technology In Bio-Manufacturing Process
 - 3.2.1.2 Increasing Investments In Expansion Of Cgmp Manufacturing
 - 3.2.1.3 Widespread Adoption Of Single Use Technology By Cmos
 - 3.2.2 Market Restraint Analysis
 - 3.2.2.1 Concerns Due To Leachable And Extractable
 - 3.2.2.2 Limited Adoption Of Single Use Technology In Downstream Process
 - 3.2.3 Market Challenge Analysis
 - 3.2.3.1 Delay In The Delivery Speed And Supply Chain Of Customized Products
 - 3.2.3.2 Restraints With Scalability Of Single-Use Operations
 - 3.2.3.3 Vast Availabilty Of Multi-Use Systems

- 3.2.4 Market Opportunity Analysis
 - 3.2.4.1 Developing Technologies For Downstream Adoption
 - 3.2.4.2 Cmo-Outsourcing To Focus On The New Product Development
- 3.3 Penetration & Growth Prospect Mapping For Products (Apparatus & Plants), 2021
- 3.4 Single-Use Bioprocessing Market - Porter's Analysis
- 3.5 Single-Use Bioprocessing Market - Swot Analysis
- 3.6 Major Deals & Strategic Alliances Analysis
 - 3.6.1 Mergers & Acquisitions
 - 3.6.2 Licensing & Partnership
 - 3.6.3 Technology Collaborations
- 3.7 Covid-19 Impact Analysis
 - 3.7.1 Short-Term Impact
 - 3.7.2 Long-Term Impact
 - 3.7.3 Challenge Analysis
 - 3.7.4 Opportunity Analysis
 - 3.7.4.1 Key Developments & Activities

CHAPTER 4 PRODUCT BUSINESS ANALYSIS

- 4.1 Single Use Bioprocessing Market-Product Movement Analysis
- 4.2 Simple And Peripheral Elements
 - 4.2.1 Global Simple And Peripheral Elements Market, 2018 - 2030 (USD Million)
 - 4.2.2 Tubing, Filters, Connectors And Transfer Systems
 - 4.2.2.1 Global Tubing, Filters, Connectors, And Transfer Systems Market, 2018 - 2030 (USD Million)
 - 4.2.3 Bags
 - 4.2.3.1 Global Single-Use Bags Market, 2018 - 2030 (USD Million)
 - 4.2.4 Sampling Systems
 - 4.2.4.1 Global Single Use Sampling Systems Market, 2018 - 2030 (USD Million)
 - 4.2.5 Probes And Sensors
 - 4.2.5.1 Global Single Use Probes And Sensors Market, 2018 - 2030 (USD Million)
 - 4.2.5.2 Ph Sensors
 - 4.2.5.2.1 Global Single Use Ph Sensors Market, 2018 - 2030 (USD Million)
 - 4.2.5.3 Oxygen Sensors
 - 4.2.5.3.1 Global Single Use Oxygen Sensors Market, 2018 - 2030 (USD Million)
 - 4.2.5.4 Pressure Sensors
 - 4.2.5.4.1 Global Single Use Pressure Sensors Market, 2018 - 2030 (USD Million)
 - 4.2.5.5 Temperature Sensors
 - 4.2.5.5.1 Global Single Use Temperature Sensors Market, 2018 - 2030 (USD Million)

Million)

4.2.5.6 Conductivity Sensors

4.2.5.6.1 Global Single Use Conductivity Sensors Market, 2018 - 2030 (USD Million)

4.2.5.7 Flow Sensors

4.2.5.7.1 Global Single Use Flow Sensors Market, 2018 - 2030 (USD Million)

4.2.5.8 Other Sensors

4.2.5.8.1 Global Single Use Other Sensors Market, 2018 - 2030 (USD Million)

4.2.6 Others

4.2.6.1 Global Single Use Other Simple And Peripheral Elements Market, 2018 - 2030 (USD Million)

4.3 Apparatus And Plants

4.3.1 Global Single Use Apparatus And Plants Market, 2018 - 2030 (USD Million)

4.3.2 Bioreactors

4.3.2.1 Global Single-Use Bioreactors Market, 2018 - 2030 (USD Million)

4.3.2.2 Bioreactors By Capacity

4.3.2.2.1 Up To 1000l

4.3.2.2.1.1 Global Bioreactors With Capacity Up To 1000l Market, 2018 - 2030 (USD Million)

4.3.2.2.2 Above 1000l To 2000l

4.3.2.2.2.1 Global Bioreactors With Capacity Above 1000l To 2000l Market, 2018 - 2030 (USD Million)

4.3.2.2.3 Above 2000l

4.3.2.2.3.1 Global Bioreactors With Capacity Above 2000l Market, 2018 - 2030 (USD Million)

4.3.3 Mixing, Storage And Filling Systems

4.3.3.1 Global Mixing, Storage, And Filling Systems Market, 2018 - 2030 (USD Million)

4.3.4 Filtration Systems

4.3.4.1 Global Single Use Filtration Systems Market, 2018 - 2030 (USD Million)

4.3.5 Chromatography Systems

4.3.5.1 Global Single Use Chromatography Systems Market, 2018 - 2030 (USD Million)

4.3.6 Pumps

4.3.6.1 Global Single Use Pumps Market, 2018 - 2030 (USD Million)

4.3.7 Others

4.3.7.1 Global Single Use Other Apparatus And Plants Market, 2018 - 2030 (USD Million)

4.4 Work Equipment

4.4.1 Global Single Use Work Equipment Market, 2018 - 2030 (USD Million)

4.4.2 Cell Culture System

4.4.2.1 Global Single-Use Cell Culture System Market, 2018 - 2030 (USD Million)

4.4.3 Syringes

4.4.3.1 Global Single-Use Syringes Market, 2018 - 2030 (USD Million)

4.4.4 Others

4.4.4.1 Global Single-Use Other Work Equipment Market, 2018 - 2030 (USD Million)

CHAPTER 5 WORKFLOW BUSINESS ANALYSIS

5.1 Single Use Bioprocessing Market-Workflow Movement Analysis

5.2 Upstream Bioprocessing

5.2.1 Global Single-Use Upstream Bioprocessing Market, 2018 - 2030 (USD Million)

5.3 Fermentation

5.3.1 Global Single-Use Fermentation Bioprocessing Market, 2018 - 2030 (USD Million)

5.4 Downstream Bioprocessing

5.4.1 Global Single-Use Downstream Bioprocessing Market, 2018 - 2030 (USD Million)

CHAPTER 6 END-USE BUSINESS ANALYSIS

6.1 Single Use Bioprocessing Market-End-Use Movement Analysis

6.2 Biopharmaceutical Manufacturers

6.2.1 Global Single-Use Bioprocessing Market For Biopharmaceutical Manufacturers, 2018 - 2030 (USD Million)

6.2.2 In-House Biomanufacturer

6.2.2.1 Global Single-Use Bioprocessing Market For In-House Biopharmaceutical Manufacturers, 2018 - 2030 (USD Million)

6.2.3 Cmos And Cros

6.2.3.1 Global Single-Use Bioprocessing Market For Cmos And Cros, 2018 - 2030 (USD Million)

6.3 Academic And Clinical Research Institutes

6.3.1 Global Single-Use Bioprocessing Market For Academic And Clinical Research Institutes, 2018 - 2030 (USD Million)

Chaper 7 Regional Business Analysis

7.1 Single-Use Bioprocessing Market: Regional Movement Analysis

7.2 North America

7.2.1 North America Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.2.2 U.S.

7.2.2.1 U.S. Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.2.3 Canada

7.2.3.1 Canada Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.3 Europe

7.3.1 Europe Single-Use Bioprocessing Market Estimates And Forecast, 2018 - 2030 (USD Million)

7.3.2 Germany

7.3.2.1 Germany Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.3.3 France

7.3.3.1 France Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.3.4 U.K.

7.3.4.1 U.K. Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.3.5 Italy

7.3.5.1 Italy Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.3.6 Spain

7.3.6.1 Spain Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.3.7 Rest Of Europe

7.3.7.1 Rest Of Europe Single-Use Bioprocessing Market Estimates And Forecast, 2018 - 2030 (USD Million)

7.4 Asia Pacific

7.4.1 Asia Pacific Single-Use Bioprocessing, 2018 - 2030 (USD Million)

7.4.2 China

7.4.2.1 China Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.4.3 India

7.4.3.1 India Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.4.4 South Korea

7.4.4.1 South Korea Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.4.5 Japan

7.4.5.1 Japan Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.4.6 Rest Of Apac

7.4.6.1 Rest Of Apac Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.5 Latin America

7.5.1 Latin America Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.5.2 Brazil

7.5.2.1 Brazil Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.5.3 Mexico

7.5.3.1 Mexico Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.5.4 Rest Of Latam

7.5.4.1 Rest Of Latam Single-Use Bioprocessing Market, 2018 - 2030 (USD Million)

7.6 Middle East & Africa (Mea)

7.6.1 Mea Single-Use Bioprocessing Market Estimates And Forecast, 2018 - 2030
(USD Million)

7.6.2 South Africa

7.6.2.1 South Africa Single-Use Bioprocessing Market Estimates And Forecast, 2018
- 2030 (USD Million)

7.6.3 Saudi Arabia

7.6.3.1 Saudi Arabia Single-Use Bioprocessing Market Estimates And Forecast, 2018
- 2030 (USD Million)

7.6.4 Rest Of Mea

7.6.4.1 Rest of MEA single-use bioprocessing market estimates and forecast, 2018 -
2030 (USD million)

CHAPTER 8 COMPETITIVE LANDSCAPE

8.1 Strategy Framework

8.2 Market Participation Categorization

8.3 Company Profiles

8.3.1 SARTORIUS AG

8.3.1.1 Company overview

8.3.1.2 Financial performance

8.3.1.3 Product benchmarking

8.3.1.4 strategic initiatives

8.3.2 DANAHER CORPORATION

8.3.2.1 Company overview

8.3.2.2 Pall Corporation

8.3.2.2.1 Company overview

8.3.2.3 Cytiva

8.3.2.3.1 Company overview

8.3.2.4 Financial performance

8.3.2.5 Product benchmarking

8.3.2.6 Strategic initiatives

8.3.3 THERMO FISHER SCIENTIFIC, INC.

8.3.3.1 Company overview

8.3.3.2 Financial performance

8.3.3.3 Product benchmarking

8.3.3.4 Strategic initiatives

8.3.4 MERCK KGAA

8.3.4.1 Company overview

8.3.4.2 Millipore sigma

- 8.3.4.2.1 Company overview
- 8.3.4.3 Financial performance
- 8.3.4.4 Product benchmarking
- 8.3.4.5 Strategic initiatives
- 8.3.5 AVANTOR, INC.
 - 8.3.5.1 Company overview
 - 8.3.5.2 VWR International LLC
 - 8.3.5.2.1.1 Company overview
 - 8.3.5.3 Financial performance
 - 8.3.5.4 Product benchmarking
 - 8.3.5.5 Strategic initiatives
- 8.3.6 EPPENDORF SE
 - 8.3.6.1 Company overview
 - 8.3.6.2 Financial performance
 - 8.3.6.3 Product benchmarking
 - 8.3.6.4 Strategic initiatives
- 8.3.7 CORNING INCORPORATED
 - 8.3.7.1 Company overview
 - 8.3.7.2 Financial performance
 - 8.3.7.3 Product benchmarking
- 8.3.8 BOEHRINGER INGELHEIM INTERNATIONAL GMBH
 - 8.3.8.1 Company overview
 - 8.3.8.2 Financial performance
 - 8.3.8.3 Product benchmarking
 - 8.3.8.4 Strategic initiatives
- 8.3.9 LONZA
 - 8.3.9.1 Company overview
 - 8.3.9.2 Financial performance
 - 8.3.9.3 Product benchmarking
 - 8.3.9.4 Strategic initiatives
- 8.3.10 INFORS AG
 - 8.3.10.1 Company overview
 - 8.3.10.2 Product benchmarking
 - 8.3.10.3 Strategic initiatives
- 8.3.11 PBS BIOTECH, INC.
 - 8.3.11.1 Company overview
 - 8.3.11.2 Product benchmarking
 - 8.3.11.3 Strategic initiatives
- 8.3.12 ENTEGRIS, INC.

- 8.3.12.1 Company overview
- 8.3.12.2 Financial performance
- 8.3.12.3 Product benchmarking
- 8.3.12.4 Strategic initiatives
- 8.3.13 KUHNER AG
 - 8.3.13.1 Company overview
 - 8.3.13.2 Product benchmarking
 - 8.3.13.3 Strategic initiatives
- 8.3.14 MEISSNER FILTRATION PRODUCTS, INC.
 - 8.3.14.1 Company overview
 - 8.3.14.2 Product benchmarking
 - 8.3.14.3 Strategic initiatives
- 8.3.15 RENTSCHLER BIOPHARMA SE
 - 8.3.15.1 Company overview
 - 8.3.15.2 Product benchmarking
 - 8.3.15.3 Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of abbreviations

Table 3 Global single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 4 Global single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 5 Global single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 6 Global single-use bioprocessing market, by region, 2018 - 2030 (USD Million)

Table 7 North America single-use bioprocessing market, by country, 2018 - 2030 (USD Million)

Table 8 North America single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 9 North America single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 10 North America single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 11 U.S. single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 12 U.S. single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 13 U.S. single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 14 Canada single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 15 Canada single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 16 Canada single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 17 Europe single-use bioprocessing market, by country, 2018 - 2030 (USD Million)

Table 18 Europe single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 19 Europe single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 20 Europe single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 21 Germany single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Million)

Table 22 Germany single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 23 Germany single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 24 U.K. single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 25 U.K. single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 26 U.K. single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 27 France single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 28 France single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 29 France single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 30 Italy single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 31 Italy single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 32 Italy single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 33 Spain single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 34 Spain single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 35 Spain single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 36 Asia Pacific single-use bioprocessing market, by country, 2018 - 2030 (USD Million)

Table 37 Asia Pacific single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 38 Asia Pacific single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 39 Asia Pacific single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 40 China single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 41 China single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 42 China single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 43 Japan single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 44 Japan single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 45 Japan single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 46 India single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 47 India single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 48 India single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 49 South Korea single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 50 South Korea single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 51 South Korea single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 52 Latin America single-use bioprocessing market, by country, 2018 - 2030 (USD Million)

Table 53 Latin America single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 54 Latin America single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 55 Latin America single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 56 Brazil single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 57 Brazil single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 58 Brazil single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 59 Mexico single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 60 Mexico single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 61 Mexico single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 62 Middle East & Africa single-use bioprocessing market, by country, 2018 - 2030 (USD Million)

Table 63 Middle East & Africa single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 64 Middle East & Africa single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 65 Middle East & Africa single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 66 South Africa single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 67 South Africa single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 68 South Africa single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

Table 69 Saudi Arabia single-use bioprocessing market, by product, 2018 - 2030 (USD Million)

Table 70 Saudi Arabia single-use bioprocessing market, by workflow, 2018 - 2030 (USD Million)

Table 71 Saudi Arabia single-use bioprocessing market, by end-use, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Data triangulation techniques
- Fig. 3 Primary research pattern
- Fig. 4 market research approaches
- Fig. 5 Value-chain-based sizing & forecasting
- Fig. 6 QFD modeling for market share assessment
- Fig. 7 Market formulation & validation
- Fig. 8 Market summary, 2021 (USD Million)
- Fig. 9 Market segmentation & scope
- Fig. 10 Types of bioprocessing systems
- Fig. 11 Market trends and outlook
- Fig. 12 Market driver impact
- Fig. 13 Market restraint impact
- Fig. 14 Penetration & growth prospect mapping for products (apparatus & plants), 2021
- Fig. 15 Porter's analysis
- Fig. 16 SWOT analysis
- Fig. 17 Single-use bioprocessing market: Product outlook and key takeaways
- Fig. 18 Single-use bioprocessing market: Product movement analysis
- Fig. 19 Global simple and peripheral elements market, 2018 - 2030 (USD Million)
- Fig. 20 Global tubing, filters, connectors and transfer systems market, 2018 - 2030 (USD Million)
- Fig. 21 Global single-use bags market, 2018 - 2030 (USD Million)
- Fig. 22 Global single-use sampling systems market, 2018 - 2030 (USD Million)
- Fig. 23 Global single-use probes and sensors market, 2018 - 2030 (USD Million)
- Fig. 24 Global single-use pH sensors market, 2018 - 2030 (USD Million)
- Fig. 25 Global single-use oxygen sensors market, 2018 - 2030 (USD Million)
- Fig. 26 Global single-use pressure sensors market, 2018 - 2030 (USD Million)
- Fig. 27 Global single-use temperature sensors market, 2018 - 2030 (USD Million)
- Fig. 28 Global single-use conductivity sensors market, 2018 - 2030 (USD Million)
- Fig. 29 Global single-use flow sensors market, 2018 - 2030 (USD Million)
- Fig. 30 Global single-use other sensors market, 2018 - 2030 (USD Million)
- Fig. 31 Global single-use other single and peripheral elements market, 2018 - 2030 (USD Million)
- Fig. 32 Global single-use apparatus and plants market, 2018 - 2030 (USD Million)
- Fig. 33 Global single-use bioreactors market, 2018 - 2030 (USD Million)

Fig. 34 Global single-use bioreactors with capacity up to 1000L market, 2018 - 2030 (USD Million)

Fig. 35 Global single-use bioreactors with capacity above 1000L to 2000L market, 2018 - 2030 (USD Million)

Fig. 36 Global single-use bioreactors with capacity above 2000L market, 2018 - 2030 (USD Million)

Fig. 37 Global mixing, storage and filling systems market, 2018 - 2030 (USD Million)

Fig. 38 Global single-use filtration systems market, 2018 - 2030 (USD Million)

Fig. 39 Global single-use chromatography systems market, 2018 - 2030 (USD Million)

Fig. 40 Global single-use pumps market, 2018 - 2030 (USD Million)

Fig. 41 Global single-use other apparatus and plants market, 2018 - 2030 (USD Million)

Fig. 42 Global single-use work equipment market, 2018 - 2030 (USD Million)

Fig. 43 Global single-use cell culture system market, 2018 - 2030 (USD Million)

Fig. 44 Global single-use syringes market, 2018 - 2030 (USD Million)

Fig. 45 Global single-use other work equipment market, 2018 - 2030 (USD Million)

Fig. 46 Single-use bioprocessing market: Workflow outlook and key takeaways

Fig. 47 Single-use bioprocessing market: Workflow movement analysis

Fig. 48 Global single-use upstream bioprocessing market, 2018 - 2030 (USD Million)

Fig. 49 Global single-use fermentation bioprocessing market, 2018 - 2030 (USD Million)

Fig. 50 Global single-use downstream bioprocessing market, 2018 - 2030 (USD Million)

Fig. 51 Single-use bioprocessing market: End-use outlook and key takeaways

Fig. 52 Single-use bioprocessing market: End-use movement analysis

Fig. 53 Global single-use bioprocessing market for biopharmaceutical manufacturers, 2018 - 2030 (USD Million)

Fig. 54 Global single-use bioprocessing market for in-house biopharmaceutical manufacturers, 2018 - 2030 (USD Million)

Fig. 55 Global single-use bioprocessing market for CMOs and CROs, 2018 - 2030 (USD Million)

Fig. 56 Global single-use bioprocessing market for academic and clinical research institutes, 2018 - 2030 (USD Million)

Fig. 57 Single-use bioprocessing market: Regional outlook and key takeaways

Fig. 58 Single-use bioprocessing market: Regional movement analysis

Fig. 59 North America single-use bioprocessing market, 2018 - 2030 (USD Million)

Fig. 60 U.S. single-use bioprocessing market, 2018 - 2030 (USD Million)

Fig. 61 Canada single-use bioprocessing market, 2018 - 2030 (USD Million)

Fig. 62 Europe single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 63 Germany single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 64 France single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 65 U.K. single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 66 Italy single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 67 Spain single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 68 Rest of Europe single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 69 Asia-Pacific single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 70 China single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 71 India single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 72 South Korea single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 73 Japan single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 74 Rest of APAC single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 75 Latin America single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 76 Brazil single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 77 Mexico single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 78 Rest of LATAM single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 79 MEA single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 80 South Africa single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 81 Saudi Arabia single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 82 Rest of MEA single-use bioprocessing market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 83 Strategy framework

Fig. 84 Participant categorization

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