

# Single-Use Bioprocessing Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

### Market Overview:

The global single-use bioprocessing market size reached US\$ 13.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 37.7 Billion by 2028, exhibiting a growth rate (CAGR) of 19.8% during 2023-2028. The growing prevalence of chronic diseases, increasing technological advancements, and rising number of drug approvals and biologics represent some of the key factors driving the market.

Single-use bioprocessing technology is designed for filtration, storage, cell culture, mixing, and purification of biopharmaceutical products for one-time use. It is cost-effective, timesaving, and provides flexibility and hassle-free disposal. It assists in increasing productivity by eliminating complex steps and reduces the risks of cross-contamination among individuals as compared to traditional bioprocessing. Besides this, it is beneficial in reducing energy, media consumption, and carbon footprint and providing a sustainable manufacturing process as compared to steel. It is utilized for the effective production of vaccines, plant cell cultivation, and monoclonal antibodies. As it also reduces the time of staff members for set-up, validation, and documentation, the demand for single-use bioprocessing technology is increasing across the globe.

### Single-Use Bioprocessing Market Trends:

Presently, the rising prevalence of chronic diseases, such as diabetes, asthma, arthritis, cancer, hypertension, heart attack, stroke, and chronic obstructive pulmonary disease (COPD), among the masses across the globe represents one of the key factors supporting the growth of the market. Apart from this, the growing demand for single-use

bioprocessing due to the increasing number of drug approvals and biologics around the world is positively influencing the market. Additionally, rising preferences of products manufactured from high-grade polymer materials and plastic composites, as they offer enhanced integral strength, is offering lucrative growth opportunities to industry investors. Besides this, various benefits offered by single-use bioprocessing systems, such as lower labor, material, and investment costs, are propelling the growth of the market. In addition to this, the emergence of various technological advancements, such as artificial intelligence (AI), machine learning (ML), and big data solutions in single-use bioprocessing for predicting errors and improving accuracy, is bolstering the growth of the market. Moreover, the growing utilization of single-use bioprocessing in media preparation and shipping of biologics while manufacturing pharmaceuticals is offering a favorable market outlook. In line with this, the rising adoption of single-use bioprocessing, as it reduces the amount of carbon dioxide (CO<sub>2</sub>) compared to traditional bioprocessing, is impelling the growth of the market. Furthermore, the increasing employment of single-use bioprocessing due to the improving healthcare facilities across the globe is contributing to the growth of the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global single-use bioprocessing market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, application, end-use and end-user.

#### Product Type Insights:

- Media Bags and Containers
- Filtration Assemblies
- Single-Use Bioreactors
- Disposable Mixers
- Others

The report has provided a detailed breakup and analysis of the single-use bioprocessing market based on the product type. This includes media bags and containers, filtration assemblies, single-use bioreactors, disposable mixers, and others. According to the report, media bags and containers represented the largest segment.

#### Application Insights:

- Filtration

Storage  
Cell Culture  
Mixing  
Purification

A detailed breakup and analysis of the single-use bioprocessing market based on the application has also been provided in the report. This includes filtration, storage, cell culture, mixing, and purification. According to the report, filtration accounted for the largest market share.

End-Use Insights:

Upstream  
Fermentation  
Downstream

A detailed breakup and analysis of the single-use bioprocessing market based on the end-use has also been provided in the report. This includes upstream, fermentation, and downstream. According to the report, upstream accounted for the largest market share.

End-User Insights:

Biopharmaceutical Manufacturers  
Life Science R&D  
Others

A detailed breakup and analysis of the single-use bioprocessing market based on the end-user has also been provided in the report. This includes biopharmaceutical manufacturers, life science R&D, and others. According to the report, biopharmaceutical manufacturers accounted for the largest market share.

Regional Insights:

North America  
United States  
Canada  
Europe  
Germany

France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Latin America  
Brazil  
Mexico  
Argentina  
Colombia  
Chile  
Peru  
Others  
Middle East and Africa  
Turkey  
Saudi Arabia  
Iran  
United Arab Emirates  
Others

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, Argentina, Colombia, Chile, Peru, and others); and the Middle East and Africa (Turkey, Saudi Arabia, Iran, United Arab Emirates, and others). According to the report, North America (the United States and Canada) was the largest market for single-use bioprocessing. Some of the factors driving the North America single-use bioprocessing market included the presence of large-scale manufacturing units, rising geriatric population, increasing healthcare expenditure, etc.

### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global single-use bioprocessing market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Applikon Biotechnology, Boehringer Ingelheim, Cescio Bioengineering Company, Corning Inc., Danaher Corporation, Entegris, Eppendorf AG, Finesse Solutions Inc., GE Healthcare, Infors, Merck Millipore, Rentschler Biotechnologie, Sartorius Stedim Biotech, Thermo Fisher Scientific Inc., 3M Company, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

### Key Questions Answered in This Report

1. How big is the global single-use bioprocessing market?
2. What is the expected growth rate of the global single-use bioprocessing market during 2023-2028?
3. What are the key factors driving the global single-use bioprocessing market?
4. What has been the impact of COVID-19 on the global single-use bioprocessing market?
5. What is the breakup of the global single-use bioprocessing market based on the product type?
6. What is the breakup of the global single-use bioprocessing market based on the application?
7. What is the breakup of the global single-use bioprocessing market based on the end-use?
8. What is the breakup of the global single-use bioprocessing market based on the end-user?
9. What are the key regions in the global single-use bioprocessing market?
10. Who are the key players/companies in the global single-use bioprocessing market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL SINGLE-USE BIOPROCESSING MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY PRODUCT TYPE**

- 6.1 Media Bags and Containers
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Filtration Assemblies
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Single-Use Bioreactors

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Disposable Mixers
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast
- 6.5 Others
  - 6.5.1 Market Trends
  - 6.5.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

- 7.1 Filtration
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Storage
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Cell Culture
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Mixing
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 Purification
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast

## **8 MARKET BREAKUP BY END-USE**

- 8.1 Upstream
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Fermentation
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Downstream
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast

## **9 MARKET BREAKUP BY END-USER**

### 9.1 Biopharmaceutical Manufacturers

9.1.1 Market Trends

9.1.2 Market Forecast

### 9.2 Life Science R&D

9.2.1 Market Trends

9.2.2 Market Forecast

### 9.3 Others

9.3.1 Market Trends

9.3.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

### 10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

### 10.2 Europe

10.2.1 Germany

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 France

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 United Kingdom

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 Italy

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Spain

10.2.5.1 Market Trends

10.2.5.2 Market Forecast

10.2.6 Russia

10.2.6.1 Market Trends



- 10.2.6.2 Market Forecast
- 10.2.7 Others
  - 10.2.7.1 Market Trends
  - 10.2.7.2 Market Forecast
- 10.3 Asia Pacific
  - 10.3.1 China
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 Japan
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 India
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 South Korea
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Australia
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Indonesia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Argentina
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
  - 10.4.4 Colombia
    - 10.4.4.1 Market Trends
    - 10.4.4.2 Market Forecast

- 10.4.5 Chile
  - 10.4.5.1 Market Trends
  - 10.4.5.2 Market Forecast
- 10.4.6 Peru
  - 10.4.6.1 Market Trends
  - 10.4.6.2 Market Forecast
- 10.4.7 Others
  - 10.4.7.1 Market Trends
  - 10.4.7.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Turkey
    - 10.5.1.1 Market Trends
    - 10.5.1.2 Market Forecast
  - 10.5.2 Saudi Arabia
    - 10.5.2.1 Market Trends
    - 10.5.2.2 Market Forecast
  - 10.5.3 Iran
    - 10.5.3.1 Market Trends
    - 10.5.3.2 Market Forecast
  - 10.5.4 United Arab Emirates
    - 10.5.4.1 Market Trends
    - 10.5.4.2 Market Forecast
  - 10.5.5 Others
    - 10.5.5.1 Market Trends
    - 10.5.5.2 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

- 13.1 Overview

- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 COMPETITIVE LANDSCAPE**

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
  - 14.3.1 Applikon Biotechnology
    - 14.3.1.1 Company Overview
    - 14.3.1.2 Product Portfolio
  - 14.3.2 Boehringer Ingelheim
    - 14.3.2.1 Company Overview
    - 14.3.2.2 Product Portfolio
  - 14.3.3 Cescio Bioengineering Company
    - 14.3.3.1 Company Overview
    - 14.3.3.2 Product Portfolio
  - 14.3.4 Corning Inc.
    - 14.3.4.1 Company Overview
    - 14.3.4.2 Product Portfolio
    - 14.3.4.3 Financials
    - 14.3.4.4 SWOT Analysis
  - 14.3.5 Danaher Corporation
    - 14.3.5.1 Company Overview
    - 14.3.5.2 Product Portfolio
    - 14.3.5.3 Financials
    - 14.3.5.4 SWOT Analysis
  - 14.3.6 Entegris
    - 14.3.6.1 Company Overview
    - 14.3.6.2 Product Portfolio
    - 14.3.6.3 Financials
  - 14.3.7 Eppendorf AG
    - 14.3.7.1 Company Overview
    - 14.3.7.2 Product Portfolio
  - 14.3.8 Finesse Solutions Inc.
    - 14.3.8.1 Company Overview

- 14.3.8.2 Product Portfolio
- 14.3.9 GE Healthcare
  - 14.3.9.1 Company Overview
  - 14.3.9.2 Product Portfolio
  - 14.3.9.3 SWOT Analysis
- 14.3.10 Infors
  - 14.3.10.1 Company Overview
  - 14.3.10.2 Product Portfolio
- 14.3.11 Merck Millipore
  - 14.3.11.1 Company Overview
  - 14.3.11.2 Product Portfolio
  - 14.3.11.3 Financials
  - 14.3.11.4 SWOT Analysis
- 14.3.12 Rentschler Biotechnologie
  - 14.3.12.1 Company Overview
  - 14.3.12.2 Product Portfolio
- 14.3.13 Sartorius Stedim Biotech
  - 14.3.13.1 Company Overview
  - 14.3.13.2 Product Portfolio
  - 14.3.13.3 Financials
  - 14.3.13.4 SWOT Analysis
- 14.3.14 Thermo Fisher Scientific Inc.
  - 14.3.14.1 Company Overview
  - 14.3.14.2 Product Portfolio
  - 14.3.14.3 Financials
  - 14.3.14.4 SWOT Analysis
- 14.3.15 3M Company
  - 14.3.15.1 Company Overview
  - 14.3.15.2 Product Portfolio
  - 14.3.15.3 Financials
  - 14.3.15.4 SWOT Analysis

## List Of Tables

### LIST OF TABLES

Table 1: Global: Single-Use Bioprocessing Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Single-Use Bioprocessing Market Forecast: Breakup by Product Type (in Million US\$), 2023-2028

Table 3: Global: Single-Use Bioprocessing Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Single-Use Bioprocessing Market Forecast: Breakup by End-Use (in Million US\$), 2023-2028

Table 5: Global: Single-Use Bioprocessing Market Forecast: Breakup by End-User (in Million US\$), 2023-2028

Table 6: Global: Single-Use Bioprocessing Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Single-Use Bioprocessing Market: Competitive Structure

Table 8: Global: Single-Use Bioprocessing Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Single-Use Bioprocessing Market: Major Drivers and Challenges

Figure 2: Global: Single-Use Bioprocessing Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Single-Use Bioprocessing Market: Breakup by Product Type (in %), 2022

Figure 4: Global: Single-Use Bioprocessing Market: Breakup by Application (in %), 2022

Figure 5: Global: Single-Use Bioprocessing Market: Breakup by End-Use (in %), 2022

Figure 6: Global: Single-Use Bioprocessing Market: Breakup by End-User (in %), 2022

Figure 7: Global: Single-Use Bioprocessing Market: Breakup by Region (in %), 2022

Figure 8: Global: Single-Use Bioprocessing Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 9: Global: Single-Use Bioprocessing (Media Bags and Containers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Single-Use Bioprocessing (Media Bags and Containers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Single-Use Bioprocessing (Filtration Assemblies) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Single-Use Bioprocessing (Filtration Assemblies) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Single-Use Bioprocessing (Single-Use Bioreactors) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Single-Use Bioprocessing (Single-Use Bioreactors) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Single-Use Bioprocessing (Disposable Mixers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Single-Use Bioprocessing (Disposable Mixers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Single-Use Bioprocessing (Other Product Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Single-Use Bioprocessing (Other Product Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Single-Use Bioprocessing (Filtration) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Single-Use Bioprocessing (Filtration) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Single-Use Bioprocessing (Storage) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Single-Use Bioprocessing (Storage) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Single-Use Bioprocessing (Cell Culture) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Single-Use Bioprocessing (Cell Culture) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Single-Use Bioprocessing (Mixing) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Single-Use Bioprocessing (Mixing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Single-Use Bioprocessing (Purification) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Single-Use Bioprocessing (Purification) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Single-Use Bioprocessing (Upstream) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Single-Use Bioprocessing (Upstream) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Single-Use Bioprocessing (Fermentation) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Single-Use Bioprocessing (Fermentation) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Single-Use Bioprocessing (Downstream) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Single-Use Bioprocessing (Downstream) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Global: Single-Use Bioprocessing (Biopharmaceutical Manufacturers) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Global: Single-Use Bioprocessing (Biopharmaceutical Manufacturers) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Global: Single-Use Bioprocessing (Life Science R&D) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Global: Single-Use Bioprocessing (Life Science R&D) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Global: Single-Use Bioprocessing (Other End-Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Global: Single-Use Bioprocessing (Other End-Users) Market Forecast: Sales

Value (in Million US\$), 2023-2028

Figure 41: North America: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: North America: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: United States: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: United States: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Canada: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Canada: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Europe: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Europe: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Germany: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Germany: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: France: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: France: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: United Kingdom: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: United Kingdom: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Italy: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Italy: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Spain: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Spain: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Russia: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022



Figure 60: Russia: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Others: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Others: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Asia Pacific: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Asia Pacific: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: China: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: China: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Japan: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Japan: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: India: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: India: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: South Korea: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: South Korea: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Australia: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Australia: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Indonesia: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Indonesia: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Others: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Others: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Latin America: Single-Use Bioprocessing Market: Sales Value (in Million

US\$), 2017 & 2022

Figure 80: Latin America: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Brazil: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Brazil: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 83: Mexico: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 84: Mexico: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 85: Argentina: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 86: Argentina: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Colombia: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 88: Colombia: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 89: Chile: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 90: Chile: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 91: Peru: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 92: Peru: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 93: Others: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 94: Others: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 95: Middle East and Africa: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 96: Middle East and Africa: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 97: Turkey: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 98: Turkey: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 99: Saudi Arabia: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 100: Saudi Arabia: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 101: Iran: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 102: Iran: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 103: United Arab Emirates: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 104: United Arab Emirates: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 105: Others: Single-Use Bioprocessing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 106: Others: Single-Use Bioprocessing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 107: Global: Single-Use Bioprocessing Industry: SWOT Analysis

Figure 108: Global: Single-Use Bioprocessing Industry: Value Chain Analysis

Figure 109: Global: Single-Use Bioprocessing Industry: Porter's Five Forces Analysis

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