

# **Single-use Assemblies Market Size, Share & Trends Analysis Report By Product (Bag Assemblies, Filtration Assemblies), By Application (Filtration, Storage), By Solution (Customized, Standard), And Segment Forecasts, 2022 - 2030**

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## **Abstracts**

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### **Single-use Assemblies Market Growth & Trends**

The global single-use assemblies market size is expected to reach USD 39.96 billion by 2030, registering a CAGR of 18.57% during the forecast period, according to a new report by Grand View Research, Inc. Life science companies are eager to avoid the cost and time of cleaning needed with stainless steel. The augmented expansion of the international biotech industries has offered a growth environment, in which novel, disposable technologies are becoming more significant. As pharmaceutical companies, distributors, CDMOs, and manufacturers converge around the benefits of single-use assemblies, the industry will grow at a faster pace during the forecast period. From therapies for rare diseases to cancer research, the impact of single-use technology in accelerating cutting-edge research into these conditions is set to grow, thereby propelling industry growth.

In addition, the growing biologics market will further offer lucrative opportunities during the study period. Eradicating the risk of contamination is the major challenge faced by biopharmaceutical manufacturers, which currently involves high-level monitoring of critical manufacturing solutions. Single-use assemblies support manufacturers in overcoming this difficulty by eliminating or reducing the necessity for sterilization between the batches, thereby filtering the operational capability. SUTs are considered

one of the important areas of growth among biomanufacturing companies, as several biopharmaceutical companies are venturing into disposable assembly offerings for the production of all sorts of biopharmaceuticals.

Moreover, SUTs are now being heavily adopted for the clinical manufacturing of biopharmaceuticals and have become more conventional within commercial manufacturing facilities. SUTs permit biologics manufacturers to reduce the facilities' footprint by almost 20% due to the need for utilities, which generate steam, water, and clean-in-place solutions. Furthermore, as per the research by BioProcess International, the engineers estimated that the capital expenditure for the single-use facility is 25-45% less than for a facility established on stainless-steel equipment. Similarly, they also estimated that single-use facilities need half the energy and water during operations and can be built in 18 months. Whereas the stainless-steel facility takes three years. Owing to such advantages, the adoption of single-use assemblies is increasing, thereby driving industry growth.

In recent years, CMOs have been integrating single-use assemblies into most or all their bioprocess. CMOs broadly use single-use assemblies for quicker processing and process changeover time. The quick turnaround time and flexibility between process runs and various client projects allowed by single-use assemblies can enhance the CMO efficiency, which, in turn, aids in the reduction of the overall costs. In addition, the growing number of CMO facilities are essentially fully single-use. CMOs adoption of single-use technology can save on campaign and facility costs, which helps reduce the operating costs and capital investments. Furthermore, single-use assemblies in CMOs decrease the complexity and reduces lead times in upstream processes.

They also enhance the quality of products by preventing cross-contamination in downstream processes, especially for processes handling potent or toxic materials, such as antibody-drug conjugates and viral vectors. Moreover, stringent regulatory requirements in the manufacturing systems also endorse the adoption of single-use assemblies in CMOs. COVID-19 has augmented an already rapidly rising demand for single-use assemblies as the SUTs allow for the speedy production and development of therapies and vaccines and improve accuracy and time. For instance, Aramus single-use bag assembly developed by Entegris, Inc. was used for the storage of COVID-19 vaccines as the vaccines need extremely low temperatures to preserve. With low leachable and extractable and an extensive operating-temperature variety, the patented single-use bags were ideal for cold chain storage and collection.

In addition, key manufacturers are also accelerating investment projects or increasing

their capital expenditures. For instance, Pall Corp., invested USD 114 million to upsurge its single-use output. These investments comprise additional manufacturing capacity at 6 current manufacturing facilities in the United States and Europe. Moreover, MilliporeSigma, Thermo Fisher, and Cytiva have also augmented growth plans to support the industry's backlog. For instance, in March 2021 Merck announced the addition of a single-use assembly production unit at its Life Science Center in Molsheim, France. The investment of USD 26.25 million will accelerate the European expansion plans of the company for single-use products critical to manufacturing vaccines and lifesaving therapies. On the other hand, regulatory concerns due to leachable and extractable might hamper the growth of disposable assemblies in the forecast period.

Leachable and extractable are set of undesired impurities in the product stream, these are compounds that can move into the product from manufacturing systems, packaging containers, or other product-contact systems. Extractable is extracted from the contact materials under extreme conditions, such as treatment with a harsh solvent or elevated temperature conditions. Leachable compounds, on the other hand, are those that are leached into the final product from contact materials during normal or real-time storage conditions. North America dominated the global industry in 2021 due to the growth in the biotechnology and pharmaceutical industries, advancement in SUT products, and increasing incidence of diseases, such as cancer coupled with increasing investments and funding in drug discovery research. Asia Pacific is expected to grow at a considerable CAGR over the forecast years owing to the strategic activities by key players coupled with funding by the government for biopharmaceutical R&D.

### Single-use Assemblies Market Report Highlights

The filtration assemblies segment led the industry in 2021. Increased regulatory prospects and the need to diminish the risk of contamination have promoted the use of filtration assemblies for bulk and final fill operations

The bag assemblies segment is expected to grow at a lucrative CAGR over the forecast period. Advantages, such as no need for validation or cleaning, lower shipping cost due to less weight, and low maintenance cost & capital investment drive the segment growth

The filtration application segment held a larger revenue share in 2021. Implementation of single-use assemblies for filtration is rapidly increasing owing to benefits as it is time- & cost-effective and ready to use, unlike the conventional filtration systems

The customized solutions segment captured the highest revenue share in 2021. Several companies offer customized solutions to fast-track pharmaceutical manufacturing and drug development

The pharmaceutical & biotechnological companies end-user segment led the global industry in 2021. The growth of the current manufacturing facilities for biopharmaceuticals drives the demand for single-use assemblies

The CROs & CMOs segment is expected to grow at the fastest CAGR over the forecast period. In recent years, CMOs have been integrating single-use technology into most or all their bioprocess

The quick turnaround time and flexibility between process runs and various client projects allowed by single-use equipment can enhance the CMO efficiency, which aids in the reduction of the overall costs

## Contents

### CHAPTER 1 RESEARCH SOLUTIONOLOGY

- 1.1 Market Segmentation & Scope
  - 1.1.1 Estimates And Forecast Timeline
- 1.2 Research Solutionology
- 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
- 1.6 Model Details
  - 1.6.1 Commodity Flow Analysis
    - 1.6.1.1 Approach 1: Commodity flow approach
    - 1.6.1.2 Approach 2: Country-wise market estimation using bottom-up approach
- 1.7 Global Market: CAGR Calculation
- 1.8 Research Assumptions
- 1.9 List of Secondary Sources
- 1.10 List of Primary Sources
- 1.11 Objectives
  - 1.11.1 Objective 1:
  - 1.11.2 Objective 2:
- 1.12 List of Abbreviations

### CHAPTER 2 MARKET DEFINITIONS

### CHAPTER 3 EXECUTIVE SUMMARY

- 3.1 Market Summary

### CHAPTER 4 GLOBAL SINGLE-USE ASSEMBLIES MARKET VARIABLES, TRENDS, & SCOPE

#### 4.1 Single-use Assemblies Market Lineage Outlook

##### 4.1.1 Parent Market Outlook

#### 4.2 Penetration And Growth Prospect Mapping

#### 4.3 Regulatory Framework

#### 4.4 Market Driver Analysis

##### 4.4.1 Growing Biologics Market

##### 4.4.2 Several Advantages Associated With Implementation Of Single Use Assemblies

#### In Bio - Manufacturing Process

##### 4.4.3 increasing Biopharmaceutical R&D

#### 4.5 Market Restraint Analysis

##### 4.5.1 Regulatory Concerns Due To Leachable And Extractable

#### 4.6 Key Opportunities

##### 4.6.1 Widespread Adoption Of Single Use Technology By Cmos

#### 4.7 Key Challenge

##### 4.7.1 Waste Disposal

##### 4.7.2 Vast Availability Of Multi-Use Systems

#### 4.8 Single-Use Assemblies Market - Pestle Analysis

#### 4.9 Industry Analysis - Porter's

#### 4.10 Major Deals And Strategic Alliances Analysis

##### 4.10.1 Joint Ventures

##### 4.10.2 Mergers And Acquisitions

##### 4.10.3 Licensing And Partnership

##### 4.10.4 Technology Collaborations

##### 4.10.5 Strategic Divestments

#### 4.11 COVID - 19 Impact Analysis

### **CHAPTER 5 SINGLE-USE ASSEMBLIES MARKET - SEGMENT ANALYSIS, BY PRODUCT, 2018 - 2030 (USD MILLION)**

#### 5.1 Global Single-use Assemblies Market: Product Movement Analysis

#### 5.2 Bag Assemblies

##### 5.2.1 Bag Assemblies Market Estimates And Forecast, 2018 - 2030 (USD Million)

##### 5.2.2 2D bag assemblies

##### 5.2.2.1 2D bag assemblies market estimates and forecasts, 2018 - 2030 (USD million)

##### 5.2.3 3D bag assemblies

##### 5.2.3.1 3D bag assemblies market estimates and forecasts, 2018 - 2030 (USD million)

#### 5.3 Filtration Assemblies

- 5.3.1 Filtration Assemblies Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 5.4 Bottle Assemblies
  - 5.4.1 Bottle Assemblies Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 5.5 Tubing Assemblies
  - 5.5.1 Tubing Assemblies Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 5.6 Other Products
  - 5.6.1 Other Products Market Estimates And Forecast, 2018 - 2030 (USD Million)

## **CHAPTER 6 SINGLE-USE ASSEMBLIES MARKET - SEGMENT ANALYSIS, BY APPLICATION, 2018 - 2030 (USD MILLION)**

- 6.1 Single-use Assemblies Market: Application Movement Analysis
- 6.2 Filtration
  - 6.2.1 Filtration Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 6.3 Cell Culture & Mixing
  - 6.3.1 Cell Culture & Mixing Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 6.4 Storage
  - 6.4.1 Storage Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 6.5 Sampling
  - 6.5.1 Sampling Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 6.6 Fill - finish Applications
  - 6.6.1 Fill - Finish Applications Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 6.7 Other Applications
  - 6.7.1 Other Applications Market Estimates And Forecast, 2018 - 2030 (USD Million)

## **CHAPTER 7 SINGLE-USE ASSEMBLIES MARKET - SEGMENT ANALYSIS, BY SOLUTION, 2018 - 2030 (USD MILLION)**

- 7.1 Global Single-use Assemblies Market: Solution Movement Analysis
- 7.2 Customized Solutions
  - 7.2.1 Customized Solutions Market Estimates And Forecast, 2018 - 2030 (USD Million)
- 7.3 Standard Solutions
  - 7.3.1 Standard Solutions Market Estimates And Forecast, 2018 - 2030 (USD Million)

## **CHAPTER 8 SINGLE-USE ASSEMBLIES MARKET - SEGMENT ANALYSIS, BY END-USER, 2018 - 2030 (USD MILLION)**



8.1 Global Single-use Assemblies Market: End User Movement Analysis

8.2 Biopharmaceutical & Pharmaceutical Companies

8.2.1 Biopharmaceutical & Pharmaceutical Companies Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.3 Academic & Research Institutes

8.3.1 Academic And Research Institutes Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.4 CROs & CMOs

8.4.1 Cros & Cmos Market Estimates And Forecast, 2018 - 2030 (USD Million)

## **CHAPTER 9 SINGLE-USE ASSEMBLIES MARKET: - SEGMENT ANALYSIS, BY REGION, 2018 - 2030 (USD MILLION)**

9.1 Single-Use Assemblies Market: Regional Movement Analysis

9.2 North America

9.2.1 North America Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.2.2 U.S.

9.2.2.1 U.S. market estimates and forecast, 2018 - 2030 (USD Million)

9.2.3 Canada

9.2.3.1 Canada Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.3 Europe

9.3.1 Europe Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.3.2 U.K.

9.3.2.1 U.K. Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.3.3. Germany

9.3.3.1 Germany Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.3.4 France

9.3.4.1 France Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.3.5. Italy

9.3.5.1 Italy Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.3.5 Spain

9.3.5.1 Spain market estimates and forecast, 2018 - 2030 (USD Million)

9.4 Asia Pacific

9.4.1 Asia Pacific Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.4.2 JAPAN

9.4.2.1 Japan market estimates and forecast, 2018 - 2030 (USD Million)

9.4.3 China

9.4.3.1 China Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.4.4 India



9.4.4.1 India Market Estimates And Forecast, 2018 - 2030

9.4.5 South Korea

9.4.5.1 South Korea Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.4.6 Australia

9.4.6.1 Australia Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.5 Latin America

9.5.1 Latin America Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.5.2 Brazil

9.5.2.1 Brazil Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.5.3 Mexico

9.5.3.1 Mexico Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.5.4 Argentina

9.5.4.1 Argentina market estimates and forecast, 2018 - 2030 (USD Million)

9.6 Middle East & Africa (MEA)

9.6.1 Middle East & Africa Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.6.1 South Africa

9.6.1.1 South Africa Market Estimates And Forecast, 2018 - 2030 (USD Million)

9.6.2 Saudi Arabia

9.6.2.1 Saudi Arabia market estimates and forecast, 2018 - 2030 (USD Million)

9.6.3 UAE

9.6.3.1 UAE market estimates and forecast, 2018 - 2030 (USD Million)

## **CHAPTER 10 COMPETITIVE LANDSCAPE**

10.1 Public Companies

10.1.1 Company Market Position Analysis

10.1.2 Competitive Dashboard Analysis

10.1.3 Strategic Framework

10.2 Private Companies

10.2.1 List Of Key Emerging Companies/Technology Disruptors/Innovators

10.2.2 Regional Network Map

10.4 Company Profiles

10.4.1 THERMO FISHER SCIENTIFIC INC.

10.4.1.1 Company Overview

10.4.1.2 Financial Performance

10.4.1.3 Product Benchmarking

10.4.1.4 Strategic Initiatives

10.4.2 MERCK KGAA

10.4.2.1 Company Overview

- 10.4.2.2 Financial Performance
- 10.4.2.3 Product Benchmarking
- 10.4.2.4 Strategic Initiatives
- 10.4.3 SARTORIUS AG
  - 10.4.3.1 Company Overview
  - 10.4.3.2 Financial Performance
  - 10.4.3.3 Product Benchmarking
  - 10.4.3.4 Strategic Initiatives
- 10.4.4 DANAHER CORPORATION
  - 10.4.4.1 Company Overview
  - 10.4.4.2 Financial Performance
  - 10.4.4.3 Product Benchmarking
  - 10.4.4.4 Strategic Initiatives
- 10.4.5 AVANTOR
  - 10.4.5.1 Company Overview
  - 10.4.5.2 Financial Performance
  - 10.4.5.3 Product Benchmarking
  - 10.4.5.4 Strategic Initiatives
- 10.4.6 LONZA
  - 10.4.6.1 Company Overview
  - 10.4.6.2 Financial Performance
  - 10.4.6.3 Product Benchmarking
  - 10.4.6.4 Strategic Initiatives
- 10.4.7 SAINT - GOBAIN
  - 10.4.7.1 Company Overview
  - 10.4.7.2 Financial Performance
  - 10.4.7.3 Product Benchmarking
  - 10.4.7.4 Strategic Initiatives
- 10.4.8 CORNING INCORPORATED
  - 10.4.8.1 Company Overview
  - 10.4.8.2 Financial Performance
  - 10.4.8.3 Product Benchmarking
  - 10.4.8.4 Strategic Initiatives
- 10.4.9 ENTEGRIS
  - 10.4.9.1 Company Overview
  - 10.4.9.2 Financial Performance
  - 10.4.9.3 Product Benchmarking
  - 10.4.9.4 Strategic Initiatives
- 10.4.10 KUHNER AG

- 10.4.10.1 Company Overview
- 10.4.10.2 Financial Performance
- 10.4.10.3 Product Benchmarking
- 10.4.10.4 Strategic Initiatives

## List Of Tables

### LIST OF TABLES

TABLE 1 List of Secondary Sources

TABLE 2 List of Abbreviations

TABLE 3 Global Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 4 Global Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 5 Global Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 6 Global Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 7 Global Single-use assemblies market, by Region, 2018 - 2030 (USD Million)

TABLE 8 North America Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 9 North America Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 10 North America Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 11 North America Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 12 North America Single-use assemblies market, by Country, 2018 - 2030 (USD Million)

TABLE 13 U.S. Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 14 U.S. Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 15 U.S. Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 16 U.S. Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 17 Canada Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 18 Canada Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 19 Canada Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 20 Canada Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 21 Europe Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 22 Europe Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

Million)

TABLE 23 Europe Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 24 Europe Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 25 Europe Single-use assemblies market, by Country, 2018 - 2030 (USD Million)

TABLE 26 Germany Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 27 Germany Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 28 Germany Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 29 Germany Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 30 U.K. Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 31 U.K. Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 32 U.K. Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 33 U.K. Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 34 France Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 35 France Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 36 France Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 37 France Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 38 Spain Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 39 Spain Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 40 Spain Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 41 Spain Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 42 Italy Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 43 Italy Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 44 Italy Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 45 Italy Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 46 Asia Pacific Single-use assemblies market, by Product, 2018 - 2030 (USD

Million)

TABLE 47 Asia Pacific Single-use assemblies market, by Application, 2018 - 2030  
(USD Million)

TABLE 48 Asia Pacific Single-use assemblies market, by Solution, 2018 - 2030 (USD  
Million)

TABLE 49 Asia Pacific Single-use assemblies market, by End - use, 2018 - 2030 (USD  
Million)

TABLE 50 Asia Pacific Single-use assemblies market, by Country, 2018 - 2030 (USD  
Million)

TABLE 51 China Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 52 China Single-use assemblies market, by Application, 2018 - 2030 (USD  
Million)

TABLE 53 China Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 54 China Single-use assemblies market, by End - use, 2018 - 2030 (USD  
Million)

TABLE 55 Japan Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 56 Japan Single-use assemblies market, by Application, 2018 - 2030 (USD  
Million)

TABLE 57 Japan Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 58 Japan Single-use assemblies market, by End - use, 2018 - 2030 (USD  
Million)

TABLE 59 Indi Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 60 India Single-use assemblies market, by Application, 2018 - 2030 (USD  
Million)

TABLE 61 India Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 62 India Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 63 South Korea Single-use assemblies market, by Product, 2018 - 2030 (USD  
Million)

TABLE 64 South Korea Single-use assemblies market, by Application, 2018 - 2030  
(USD Million)

TABLE 65 South Korea Single-use assemblies market, by Solution, 2018 - 2030 (USD  
Million)

TABLE 66 South Korea Single-use assemblies market, by End - use, 2018 - 2030 (USD  
Million)

TABLE 67 Australia Single-use assemblies market, by Product, 2018 - 2030 (USD  
Million)

TABLE 68 Australia Single-use assemblies market, by Application, 2018 - 2030 (USD  
Million)

TABLE 69 Australia Single-use assemblies market, by Solution, 2018 - 2030 (USD

Million)

TABLE 70 Australia Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 71 Latin America Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 72 Latin America Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 73 Latin America Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 74 Latin America Single-use assemblies market, by End - use, 2018 - 2030 (USD Million)

TABLE 75 Latin America Single-use assemblies market, by Country, 2018 - 2030 (USD Million)

TABLE 76 Brazil Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 77 Brazil Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 78 Brazil Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 79 Brazil Single-use assemblies market, by End-use, 2018 - 2030 (USD Million)

TABLE 80 Mexico Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 81 Mexico Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 82 Mexico Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 83 Mexico Single-use assemblies market, by End-use, 2018 - 2030 (USD Million)

TABLE 84 Argentina Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 85 Argentina Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 86 Argentina Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 87 Argentina Single-use assemblies market, by End-use, 2018 - 2030 (USD Million)

TABLE 88 Middle East & Africa Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 89 Middle East & Africa Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 90 Middle East & Africa Single-use assemblies market, by Solution, 2018 - 2030



(USD Million)

TABLE 91 Middle East & Africa Single-use assemblies market, by End-use, 2018 - 2030

(USD Million)

TABLE 92 Middle East & Africa Single-use assemblies market, by Country, 2018 - 2030

(USD Million)

TABLE 93 South Africa Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 94 South Africa Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 95 South Africa Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 96 South Africa Single-use assemblies market, by End-use, 2018 - 2030 (USD Million)

TABLE 97 Saudi Arabia Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 98 Saudi Arabia Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 99 Saudi Arabia Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 100 Saudi Arabia Single-use assemblies market, by End-use, 2018 - 2030 (USD Million)

TABLE 101 UAE Single-use assemblies market, by Product, 2018 - 2030 (USD Million)

TABLE 102 UAE Single-use assemblies market, by Application, 2018 - 2030 (USD Million)

TABLE 103 UAE Single-use assemblies market, by Solution, 2018 - 2030 (USD Million)

TABLE 104 UAE Single-use assemblies market, by End-use, 2018 - 2030 (USD Million)

## List Of Figures

### LIST OF FIGURES

- FIG. 1 Market research process
- FIG. 2 Information Procurement
- FIG. 3 Primary Research Pattern
- FIG. 4 Market Research Approaches
- FIG. 5 Value Chain-Based Sizing & Forecasting
- FIG. 6 Market Formulation & Validation
- FIG. 7 Single-use Assemblies Market Segmentation
- FIG. 8 Market Driver Relevance Analysis (Current & Future Impact)
- FIG. 9 Market Restraint Relevance Analysis (Current & Future Impact)
- FIG. 10 Market Challenge Relevance Analysis (Current & Future Impact)
- FIG. 11 Penetration & Growth Prospect Mapping
- FIG. 12 SWOT Analysis, By Factor (Political & Legal, Economic and Technological)
- FIG. 13 Porter's Five Forces Analysis
- FIG. 14 Market Penetration Vs Growth Prospect Mapping, 2021
- FIG. 15 Global Single-use Assemblies Market, for, Bag Assemblies 2018 - 2030 (USD Million)
- FIG. 16 Global Single-use Assemblies Market, for, 2D Bag assemblies
- FIG. 17 Global Single-use Assemblies Market, for, 3D Bag assemblies
- FIG. 18 Global Single-use Assemblies Market, for, Filtration Assemblies 2018 - 2030 (USD Million)
- FIG. 19 Global Single-use Assemblies Market, for, Bottle Assemblies 2018 - 2030 (USD Million)
- FIG. 20 Global Single-use Assemblies Market, for, Tubing Assemblies 2018 - 2030 (USD Million)
- FIG. 21 Global Single-use Assemblies Market, for, Other Products 2018 - 2030 (USD Million)
- FIG. 22 Global Single-use Assemblies Market, for, Filtration
- FIG. 23 Global Single-use Assemblies Market, for, Cell Culture & Mixing
- FIG. 24 Global Single-use Assemblies Market, for, Storage
- FIG. 25 Global Single-use Assemblies Market, for, Sampling
- FIG. 26 Global Single-use Assemblies Market, for, Fill-finish Applications
- FIG. 27 Global Single-use Assemblies Market, for, Other Applications
- FIG. 28 Global Single-use Assemblies Market, for, Customized Solutions 2018 - 2030 (USD Million)
- FIG. 29 Global Single-use Assemblies Market, for, Standard Solutions 2018 - 2030

(USD Million)

FIG. 30 Global Single-use Assemblies Market, for, Biopharmaceutical & Pharmaceutical Companies 2018 - 2030 (USD Million)

FIG. 31 Global Single-use Assemblies Market, for, Academic and Research Institutes 2018 - 2030 (USD Million)

FIG. 32 Global Single-use Assemblies Market, for, CROs & CMOs 2018 - 2030 (USD Million)

FIG. 33 Regional Marketplace: Key Takeaways

FIG. 34 Regional Outlook, 2021 & 2030

FIG. 35 Global Single-use Assemblies Market: Region Movement Analysis

FIG. 36 North America Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 37 U.S. Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 38 Canada Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 39 Europe Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 40 Germany Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 41 U.K. Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 42 France Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 43 Spain Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 44 Italy Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 45 Asia Pacific Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 46 Japan Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 47 China Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 48 India Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 49 Australia Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 50 South Korea Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 51 Latin America Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 52 Brazil Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 53 Argentina Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 54 Mexico Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 55 Middle East and Africa Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 56 South Africa Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 57 Saudi Arabia Single-use Assemblies Market, 2018 - 2030 (USD Million)

FIG. 58 UAE Single-use Assemblies Market, 2018 - 2030 (USD Million)

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