

# Cell Culture Market Size, Share & Trends Analysis Report By Consumable (Media, Sera, Reagents), By Product (Culture Systems, Centrifuges), By Application, By Region, And Segment Forecasts, 2022 - 2030

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## **Abstracts**

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Cell Culture Market Growth & Trends

The global cell culture market size is expected to reach USD 60.27 billion by 2030, expanding at a CAGR of 11.9% from 2022 to 2030, according to a new report by Grand View Research, Inc. This can be attributed to the increase in biopharmaceutical production, advancements in vaccine research and development, and increasing focus on genetic engineering applications that rely heavily on cell culture techniques.

Innovations in cell culture workflow automation, such as the commercial development of integrated robotic liquid handling systems, are expected to significantly boost the capabilities of current cell culture technologies. For instance, culturing processes are expected to witness improvements in capacity handling and efficiency, and reproducibility in operations. Similarly, automation in cell line development technologies is gaining traction with the launch of new platforms. For instance, in October 2021, CYTENA launched C.STATION, a fully automated cell line development platform, for enhancing antibody and gene therapy production. Such product launches are likely to increase the market penetration of cell culture offerings.

Cell culture models play a pivotal role in the development of novel therapeutics for diseases such as diabetes, cancer, and Parkinson's diseases. With the increasing



emphasis on research and development activities exploring therapeutic candidates for such diseases, the demand for customized media for use in preclinical research is expected to drive the market. Furthermore, demand for serum-free media is likely to witness significant growth due to increasing quality constraints in biopharmaceuticals and the requirement for highly consistent and standardized culturing conditions.

The COVID-19 pandemic has boosted the demand for cell culture products due to the significant role played by culturing technologies in the discovery of novel diagnostic and therapeutic options for the disease. For instance, research applications such as high-throughput COVID-19 drug screening for the identification of potential drug candidates or investigations aimed at understanding the mechanism of viral entry into the host cells are expected to positively affect the market growth. Furthermore, culturing techniques offer essential tools for the production of viral particles for vaccine development, thereby broadening the growth prospects in this domain.

## Cell Culture Market Report Highlights

By consumable, the media segment accounted for the largest revenue share of over 50.0% in 2021 due to the availability of a variety of serum- and animal component-free and customized media alternatives, which has increased the market penetration for media products

Based on product, culture systems held the largest revenue share of over 25.0% in 2021. This can be attributed to the technological advancements in automated systems for research & development applications

The biopharmaceuticals application segment dominated the market in 2021 with a revenue share of over 25.0% due to the involvement of mammalian lines, such as the Chinese hamster ovary, in the manufacturing of biopharmaceuticals and the rising demand for non-conventional drugs

North America held the largest revenue share in 2021 due to high research and development investments, the presence of a well-established scientific infrastructure, significant demand for animal component-free media, and other factors

The Asia Pacific region is estimated to grow at the fastest rate over the forecast period due to the growing healthcare expenditure, rising awareness regarding



regenerative therapies, and a large potential for clinical research applications



## **Contents**

## **CHAPTER 1 METHODOLOGY AND SCOPE**

- 1.1 Market Segmentation
  - 1.1.1 Estimates And Forecast Timeline
- 1.2 Research Methodology
- 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 EXECUTIVE SUMMARY**

- 2.1 Market Outlook
- 2.2 Market Summary

## CHAPTER 3 CELL CULTURE MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Market Trends & Outlook
- 3.2 Market Segmentation & Scope
- 3.3 Market Driver Analysis



- 3.3.1 Expansion in the scope of cell culture technology
- 3.3.2 Demand for biopharmaceuticals, artificial organs & vaccine production
- 3.3.3 demand for serum free, specialty and customized media
- 3.4 market restraint analysis
  - 3.4.1 Stringent process control
  - 3.4.2 Scalability issues
  - 3.4.3 ethical concern over use of animals
- 3.5 Swot Analysis, by Factor (political & legal, economic, and technological)
- 3.6 Porter's Five Forces Analysis
- 3.7 Covid-19 impact Analysis
- 3.8 Penetration & Growth Prospect Mapping

# CHAPTER 4 CELL CULTURE MARKET - SEGMENT ANALYSIS, BY CONSUMABLE, 2018 - 2030 (USD MILLION)

- 4.1 Cell Culture Market: Consumable Movement Analysis
- 4.2 media
  - 4.2.1 Media Market Estimates and Forecast, 2018 2030 (USD Million)
  - 4.2.2 Minimum Essential Media (MEM)
- 4.2.2.1 Minimum Essential Media (MEM) market estimates and forecast, 2018 2030 (USD Million)
  - 4.2.3 RPMI 1640 media
  - 4.2.3.1 RPMI 1640 media market estimates and forecast, 2018 2030 (USD Million)
  - 4.2.4 DMEM / f-12 media
    - 4.2.4.1 DMEM / f-12 media market estimates and forecast, 2018 2030 (USD Million)
  - 4.2.5 F-10 serum-free media
- 4.2.5.1 F-10 serum-free media market estimates and forecast, 2018 2030 (USD Million)
  - 4.2.6 Basal Medium Eagle (BME) media
- 4.2.6.1 Basal Medium Eagle (BME) media market estimates and forecast, 2018 2030 (USD Million)
  - 4.2.7 Insect media
    - 4.2.7.1 Insect media market estimates and forecast, 2018 2030 (USD Million)
  - 4.2.8 Others
    - 4.2.8.1 Other media market estimates and forecast, 2018 2030 (USD Million)
- 4.3 Sera
  - 4.3.1 Sera market estimates and forecast, 2018 2030 (USD Million)
  - 4.3.2 Fetal Bovine Serum
  - 4.3.2.1 Fetal Bovine Serum market estimates and forecast, 2018 2030 (USD Million)



- 4.3.3 others
  - 4.3.3.1 Other Sera market estimates and forecast, 2018 2030 (USD Million)
- 4.4 Reagents
- 4.4.1 Reagents market estimates and forecast, 2018 2030 (USD Million)
- 4.4.2 Albumin
- 4.4.2.1 Albumin market estimates and forecast, 2018 2030 (USD Million)
- 4.4.3 Others
  - 4.4.3.1 Other reagents market estimates and forecast, 2018 2030 (USD Million)

## CHAPTER 5 CELL CULTURE MARKET - SEGMENT ANALYSIS, BY PRODUCT, 2018 - 2030 (USD MILLION)

- 5.1 Cell culture market: product movement analysis
- 5.2 culture systems
- 5.2.1 Culture systems market estimates and forecast, 2018 2030 (USD Million)
- 5.3 Incubators
- 5.3.1 Incubators market estimates and forecast, 2018 2030 (USD Million)
- 5.4 Centrifuges
  - 5.4.1 Centrifuges market estimates and forecast, 2018 2030 (USD Million)
- 5.5 cryostorage equipment
- 5.5.1 Cryostorage equipment market estimates and forecast, 2018 2030 (USD Million)
- 5.6 Biosafety equipment
- 5.6.1 Biosafety equipment market estimates and forecast, 2018 2030 (USD Million)
- 5.7 Pipetting instruments
- 5.7.1 Pipetting instruments market estimates and forecast, 2018 2030 (USD Million)

# CHAPTER 6 CELL CULTURE MARKET - SEGMENT ANALYSIS, BY APPLICATION, 2018 - 2030 (USD MILLION)

- 6.1 Cell culture market: application movement analysis
- 6.2 Biopharmaceuticals
  - 6.2.1 Biopharmaceuticals market estimates and forecast, 2018 2030 (USD Million)
- 6.3 Tissue culture & engineering
- 6.3.1 Tissue culture & engineering market estimates and forecast, 2018 2030 (USD Million)
- 6.4 Vaccine production
- 6.4.1 Vaccine production market estimates and forecast, 2018 2030 (USD Million)
- 6.5 drug development



- 6.5.1 Drug development market estimates and forecast, 2018 2030 (USD Million)
- 6.6 Gene therapy
- 6.6.1 Gene therapy market estimates and forecast, 2018 2030 (USD Million)
- 6.7 toxicity testing
  - 6.7.1 Toxicity testing market estimates and forecast, 2018 2030 (USD Million)
- 6.8 Cancer research
- 6.8.1 Cancer research market estimates and forecast, 2018 2030 (USD Million)
- 6.9 other
  - 6.9.1 Other market estimates and forecast, 2018 2030 (USD Million)

## CHAPTER 7 CELL CULTURE MARKET - SEGMENT ANALYSIS, BY REGION, 2018 - 2030 (USD MILLION)

- 7.1 Cell culture market: regional movement analysis
- 7.2 North america
  - 7.2.1 North america market estimates and forecast, 2018 2030 (USD Million)
  - 7.2.2 U.S.
    - 7.2.2.1 U.S. market estimates and forecast, 2018 2030 (USD Million)
  - 7.2.3 canada
    - 7.2.3.1 Canada market estimates and forecast, 2018 2030 (USD Million)
- 7.3 Europe
  - 7.3.1 Europe market estimates and forecast, 2018 2030 (USD Million)
  - 7.3.2 U.K.
  - 7.3.2.1 U.K. market estimates and forecast, 2018 2030 (USD Million)
  - 7.3.3 Germany
  - 7.3.3.1 Germany market estimates and forecast, 2018 2030 (USD Million)
  - 7.3.4 France
  - 7.3.4.1 France market estimates and forecast, 2018 2030 (USD Million)
  - 7.3.5 italy
  - 7.3.5.1 Italy market estimates and forecast, 2018 2030 (USD Million)
  - 7.3.6 Spain
    - 7.3.6.1 Spain market estimates and forecast, 2018 2030 (USD Million)
- 7.4 Asia pacific
  - 7.4.1 Asia pacific market estimates and forecast, 2018 2030 (USD Million)
  - 7.4.2 Japan
    - 7.4.2.1 Japan market estimates and forecast, 2018 2030 (USD Million)
  - 7.4.3 China
    - 7.4.3.1 China market estimates and forecast, 2018 2030 (USD Million)
  - 7.4.4 India



- 7.4.4.1 India market estimates and forecast, 2018 2030 (USD Million)
- 7.4.5 australia
  - 7.4.5.1 Australia market estimates and forecast, 2018 2030 (USD Million)
- 7.4.6 south korea
  - 7.4.6.1 South korea market estimates and forecast, 2018 2030 (USD Million)
- 7.5 Latin america
  - 7.5.1 Latin america market estimates and forecast, 2018 2030 (USD Million)
  - 7.5.2 Brazil
    - 7.5.2.1 Brazil market estimates and forecast, 2018 2030 (USD Million)
  - 7.5.3 Mexico
    - 7.5.3.1 Mexico market estimates and forecast, 2018 2030 (USD Million)
- 7.6 Middle East and Africa
  - 7.6.1 Middle-east and africa market estimates and forecast, 2018 2030 (USD Million)
  - 7.6.2 South africa
  - 7.6.2.1 south africa market estimates and forecast, 2018 2030 (USD Million)
  - 7.6.3 Saudi Arabia
  - 7.6.3.1 Saudi Arabia market estimates and forecast, 2018 2030 (USD Million)
  - 7.6.4 UAE
    - 7.6.4.1 UAE market estimates and forecast, 2018 2030 (USD Million)

#### **CHAPTER 8 COMPETITIVE ANALYSIS**

- 8.1 Strategy Framework
- 8.2 Company/Competition Categorization
- 8.3 Company Profiles
  - 8.3.1. BIO-RAD LABORATORIES, INC.
    - 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. THERMO FISHER SCIENTIFIC, INC.
    - 8.3.2.1. Company Overview
    - 8.3.2.2. Financial Performance
    - 8.3.2.3. Product Benchmarking
    - 8.3.2.4. Strategic Initiatives
  - 8.3.3. BECTON, DICKINSON & COMPANY
    - 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. Financial Performance
  - 8.3.4.3. Product Benchmarking
- 8.3.4.4. Strategic Initiatives
- 8.3.5. SARTORIUS AG
  - 8.3.5.1. Company Overview
  - 8.3.5.2. Financial Performance
  - 8.3.5.3. Product Benchmarking
  - 8.3.5.4. Strategic Initiatives
- 8.3.6. VWR INTERNATIONAL, LLC
  - 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. EPPENDORF SE
  - 8.3.7.1. Company Overview
  - 8.3.7.2. Financial Performance
  - 8.3.7.3. Product Benchmarking
  - 8.3.7.4. Strategic Initiatives
- 8.3.8. PROMOCELL 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. BIO-TECHNE CORPORATION
  - 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. BIOSPHERIX, LTD.
  - 8.3.10.1. Company Overview
  - 8.3.10.2. Financial Performance
  - 8.3.10.3. Product Benchmarking
  - 8.3.10.4. Strategic Initiatives



## **List Of Tables**

#### LIST OF TABLES

- Table 1 Global cell culture market, by region, 2018 2030 (USD Million)
- Table 2 Global cell culture market, by consumable, 2018 2030 (USD Million)
- Table 3 Global cell culture market, by product, 2018 2030 (USD Million)
- Table 4 Global cell culture market, by application, 2018 2030 (USD Million)
- Table 5 North America cell culture market, by consumable, 2018 2030 (USD Million)
- Table 6 North America cell culture market, by product, 2018 2030 (USD Million)
- Table 7 North America cell culture market, by application, 2018 2030 (USD Million)
- Table 8 U.S. cell culture market, by consumable, 2018 2030 (USD Million)
- Table 9 U.S. cell culture market, by product, 2018 2030 (USD Million)
- Table 10 U.S. cell culture market, by application, 2018 2030 (USD Million)
- Table 11 Canada cell culture market, by consumable, 2018 2030 (USD Million)
- Table 12 Canada cell culture market, by product, 2018 2030 (USD Million)
- Table 13 Canada cell culture market, byapplication, 2018 2030 (USD Million)
- Table 14 Europe cell culture market, by consumable, 2018 2030 (USD Million)
- Table 15 Europe cell culture market, by product, 2018 2030 (USD Million)
- Table 16 Europe cell culture market, by application, 2018 2030 (USD Million)
- Table 17 U.K. cell culture market, by consumable, 2018 2030 (USD Million)
- Table 18 U.K. cell culture market, by product, 2018 2030 (USD Million)
- Table 19 U.K. cell culture market, by application, 2018 2030 (USD Million)
- Table 20 Germany cell culture market, by consumable, 2018 2030 (USD Million)
- Table 21 Germany cell culture market, by product, 2018 2030 (USD Million)
- Table 22 Germany cell culture market, by application, 2018 2030 (USD Million)
- Table 23 France cell culture market, by consumable, 2018 2030 (USD Million)
- Table 24 France cell culture market, by product, 2018 2030 (USD Million)
- Table 25 France cell culture market, by application, 2018 2030 (USD Million)
- Table 26 Italy cell culture market, by consumable, 2018 2030 (USD Million)
- Table 27 Italy cell culture market, by product, 2018 2030 (USD Million)
- Table 28 Italy cell culture market, by application, 2018 2030 (USD Million)
- Table 29 Spain cell culture market, by consumable, 2018 2030 (USD Million)
- Table 30 Spain cell culture market, by product, 2018 2030 (USD Million)
- Table 31 Spain cell culture market, by application, 2018 2030 (USD Million)
- Table 32 Asia Pacific cell culture market, by consumable, 2018 2030 (USD Million)
- Table 33 Asia Pacific cell culture market, by product, 2018 2030 (USD Million)
- Table 34 Asia Pacific cell culture market, by application, 2018 2030 (USD Million)
- Table 35 Japan cell culture market, by consumable, 2018 2030 (USD Million)



- Table 36 Japan cell culture market, by product, 2018 2030 (USD Million)
- Table 37 Japan cell culture market, by application, 2018 2030 (USD Million)
- Table 38 China cell culture market, by consumable, 2018 2030 (USD Million)
- Table 39 China cell culture market, by product, 2018 2030 (USD Million)
- Table 40 China cell culture market, by application, 2018 2030 (USD Million)
- Table 41 India cell culture market, by consumable, 2018 2030 (USD Million)
- Table 42 India cell culture market, by product, 2018 2030 (USD Million)
- Table 43 India cell culture market, by application, 2018 2030 (USD Million)
- Table 44 Australia cell culture market, by consumable, 2018 2030 (USD Million)
- Table 45 Australia cell culture market, by product, 2018 2030 (USD Million)
- Table 46 Australia cell culture market, by application, 2018 2030 (USD Million)
- Table 47 South Korea cell culture market, by consumable, 2018 2030 (USD Million)
- Table 48 South Korea cell culture market, by product, 2018 2030 (USD Million)
- Table 49 South Korea cell culture market, by application, 2018 2030 (USD Million)
- Table 50 Latin America cell culture market, by consumable, 2018 2030 (USD Million)
- Table 51 Latin America cell culture market, by product, 2018 2030 (USD Million)
- Table 52 Latin America cell culture market, by application, 2018 2030 (USD Million)
- Table 53 Brazil cell culture market, by consumable, 2018 2030 (USD Million)
- Table 54 Brazil cell culture market, by product, 2018 2030 (USD Million)
- Table 55 Brazil cell culture market, by application, 2018 2030 (USD Million)
- Table 56 Mexico cell culture market, by consumable, 2018 2030 (USD Million)
- Table 57 Mexico cell culture market, by product, 2018 2030 (USD Million)
- Table 58 Mexico cell culture market, by application, 2018 2030 (USD Million)
- Table 59 Middle East & Africa cell culture market, by consumable, 2018 2030 (USD Million)
- Table 60 Middle East & Africa cell culture market, by product, 2018 2030 (USD Million)
- Table 61 Middle East & Africa cell culture market, by application, 2018 2030 (USD Million)
- Table 62 South Africa cell culture market, by consumable, 2018 2030 (USD Million)
- Table 63 South Africa cell culture market, by product, 2018 2030 (USD Million)
- Table 64 South Africa cell culture market, by application, 2018 2030 (USD Million)
- Table 65 Saudi Arabia cell culture market, by consumable, 2018 2030 (USD Million)
- Table 66 Saudi Arabia cell culture market, by product, 2018 2030 (USD Million)
- Table 67 Saudi Arabia cell culture market, by application, 2018 2030 (USD Million)
- Table 68 UAE cell culture market, by consumable, 2018 2030 (USD Million)
- Table 69 UAE cell culture market, by product, 2018 2030 (USD Million)
- Table 70 UAE cell culture market, by application, 2018 2030 (USD Million)



## **List Of Figures**

#### **LIST OF FIGURES**

Figure	1	Market	research	process
1 Igaic		IVIGINOL	100001	PIOCOSS

- Figure 2 Information procurement
- Figure 3 Primary research pattern
- Figure 4 Market research approaches
- Figure 5 Value chain-based sizing & forecasting
- Figure 6 Market formulation & validation
- Figure 7 Cell culture market segmentation
- Figure 8 Market driver relevance analysis (current & future impact)
- Figure 9 Market restraint relevance analysis (current & future impact)
- Figure 10 Penetration & growth prospect mapping
- Figure 11 SWOT analysis, by factor (political & legal, economic and technological)
- Figure 12 Porter's five forces analysis
- Figure 13 Market penetration vs growth prospect mapping
- Figure 14 Cell culture market: Consumable outlook and key takeaways
- Figure 15 Cell culture market: Consumablemovement analysis
- Figure 16 Cell culture media market, 2018 2030 (USD Million)
- Figure 17 Minimum essential media (MEM) market, 2018 2030 (USD Million)
- Figure 18 RPMI 1640 media market, 2018 2030 (USD Million)
- Figure 19 DMEM/F-12 media market, 2018 2030 (USD Million)
- Figure 20 F-10 serum free media market, 2018 2030 (USD Million)
- Figure 21 BME media market, 2018 2030 (USD Million)
- Figure 22 Insect media market, 2018 2030 (USD Million)
- Figure 23 Othermedia market, 2018 2030 (USD Million)
- Figure 24 Cell culture sera market, 2018 2030 (USD Million)
- Figure 25 Fetal bovine serummarket, 2018 2030 (USD Million)
- Figure 26 Other animal sera market, 2018 2030 (USD Million)
- Figure 27 Cell culture reagents market, 2018 2030 (USD Million)
- Figure 28 Albumin market, 2018 2030 (USD Million)
- Figure 29 Other reagents market, 2018 2030 (USD Million)
- Figure 30 Cell culture market: Product outlook and key takeaways
- Figure 31 Cell culture market: Productmovement analysis
- Figure 32 Culture systemsmarket, 2018 2030 (USD Million)
- Figure 33 Incubatorsmarket, 2018 2030 (USD Million)
- Figure 34 Centrifugesmarket, 2018 2030 (USD Million)
- Figure 35 Cryostorage equipmentmarket, 2018 2030 (USD Million)



- Figure 36 Biosafety equipmentmarket, 2018 2030 (USD Million)
- Figure 37 Pipetting instrumentsmarket, 2018 2030 (USD Million)
- Figure 38 Cell culture market: Application outlook and key takeaways
- Figure 39 Cell culture market: Applicationmovement analysis
- Figure 40 Biopharmaceuticalsmarket, 2018 2030 (USD Million)
- Figure 41 Tissue culture & engineeringmarket, 2018 2030 (USD Million)
- Figure 42 Vaccine productionmarket, 2018 2030 (USD Million)
- Figure 43 Drug developmentmarket, 2018 2030 (USD Million)
- Figure 44 Gene therapy market, 2018 2030 (USD Million)
- Figure 45 Toxicity testing market, 2018 2030 (USD Million)
- Figure 46 Cancer research market, 2018 2030 (USD Million)
- Figure 47 Other applications market, 2018 2030 (USD Million)
- Figure 48 Regional market: Key takeaways
- Figure 49 Regional outlook, 2018 & 2030
- Figure 50 North America cell culture market, 2018 2030 (USD Million)
- Figure 51 U.S. cell culture market, 2018 2030 (USD Million)
- Figure 52 Canada cell culture market, 2018 2030 (USD Million)
- Figure 53 Europe cell culture market, 2018 2030 (USD Million)
- Figure 54 U.K. cell culture market, 2018 2030 (USD Million)
- Figure 55 Germanycell culture market, 2018 2030 (USD Million)
- Figure 56 France cell culture market, 2018 2030 (USD Million)
- Figure 57 Italy cell culture market, 2018 2030 (USD Million)
- Figure 58 Spain cell culture market, 2018 2030 (USD Million)
- Figure 59 Asia Pacific cell culture market, 2018 2030 (USD Million)
- Figure 60 Japan cell culture market, 2018 2030 (USD Million)
- Figure 61 China cell culture market, 2018 2030 (USD Million)
- Figure 62 India cell culture market, 2018 2030 (USD Million)
- Figure 63 Australia cell culture market, 2018 2030 (USD Million)
- Figure 64 South Korea cell culture market, 2018 2030 (USD Million)
- Figure 65 Latin America cell culture market, 2018 2030 (USD Million)
- Figure 66 Brazil cell culture market, 2018 2030 (USD Million)
- Figure 67 Mexico cell culture market, 2018 2030 (USD Million)
- Figure 68 MEA cell culture market, 2018 2030 (USD Million)
- Figure 69 South Africa cell culture market, 2018 2030 (USD Million)
- Figure 70 Saudi Arabia cell culture market, 2018 2030 (USD Million)
- Figure 71 UAE cell culture market, 2018 2030 (USD Million)



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