

Cell Culture Media Storage Containers Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028.Segmented By Product (Storage Bags , Storage Bottles, Storage Bins & Drums , Storage Assemblies, Other), By Application (Biopharmaceutical Production, Diagnostics, Tissue Engineering and Regenerative Medicine), By End Use (Academic & Research Institutes, Contract Research Organizations, Pharmaceutical & Biotechnology Companies), By Region, By Competition.

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Abstracts

The Global Cell Culture Media Storage Containers Market, valued at USD 3.45 Billion in 2022, is expected to exhibit steady growth with a CAGR of 6.79% through 2028 and expected to reach USD 5.16 Billion in 2028. In the realm of scientific research and biotechnology, cell culture has become a cornerstone of numerous studies and applications. From drug discovery to regenerative medicine, cell culture plays a vital role in understanding cellular processes and developing innovative therapies. An essential aspect of successful cell culture is the proper storage of cell culture media, giving rise to the Global Cell Culture Media Storage Containers Market.

Cell culture media are essential nutrients that support cell growth, maintenance, and proliferation in a controlled environment. These media provide the necessary nutrients, vitamins, and minerals for optimal cell growth. However, maintaining the integrity of these media over time is crucial, as factors like temperature changes, light exposure, and contamination can significantly impact the quality and consistency of results. To

address these challenges, the use of specialized storage containers has become indispensable.

The biopharmaceutical industry is experiencing rapid growth, driven by a focus on personalized medicine, novel drug development, and biologics. This surge in research activities directly translates to an increased demand for reliable cell culture media storage solutions. Regenerative medicine, reliant on cell culture techniques, demands proper storage containers to ensure the viability and consistency of cultured cells. Stem cell research, promising for tissue regeneration and disease modeling, further fuels the demand for specialized containers.

Educational institutions, research laboratories, and clinical settings are expanding their focus on cellular studies, amplifying the need for suitable storage containers. Moreover, the development of advanced cell culture media, including serum-free and chemically defined formulations, requires storage containers that can effectively preserve the unique properties of these media.

Key Market Drivers

1. Rising Demand for Biopharmaceuticals and Therapeutics Drives Global Cell Culture Media Storage Containers Market:

- The biopharmaceutical and therapeutic field has witnessed remarkable growth due to advancements in research and technology, along with an increasing demand for innovative treatment solutions.
- Biopharmaceuticals, including gene therapies, monoclonal antibodies, and vaccines, have gained prominence for their specificity and effectiveness.
- Cell culture media are vital in biopharmaceutical production, and the quality of these media is critical to producing high-quality biopharmaceuticals.
- Specialized storage containers are essential to maintain the stability and sterility of cell culture media used in biopharmaceutical development.

2. Growing Academic and Industrial Research Drives Global Cell Culture Media Storage Containers Market:

- Academic and industrial research in fields such as regenerative medicine, drug

discovery, biotechnology, and genomics has surged, creating a demand for cutting-edge storage solutions.

- Interdisciplinary collaborations in academia require well-equipped laboratories with advanced storage solutions that can accommodate various cell culture media types.
- Pharmaceutical and biotechnology companies are developing innovative drugs and therapies, relying on reliable storage containers to preserve the viability of their cellular resources.
- The symbiotic relationship between research growth and storage container development drives the market forward.

Key Market Challenges

1. Contamination Concerns:

- Contamination by microorganisms, endotoxins, or foreign particles is a primary challenge in cell culture media storage.
- Manufacturers must maintain strict quality control to ensure sterile, contaminant-free storage containers.

2. Material Compatibility:

- Selecting the right material for storage containers is crucial to prevent issues like leaching, chemical reactions, or alterations in pH that could negatively impact stored media.

3. Evolving Research Needs:

- The dynamic nature of research requires storage container manufacturers to develop versatile products that can accommodate changing research requirements.

4. Scalability and Storage Efficiency:

- Researchers and manufacturers require storage containers that can efficiently accommodate varying volumes of cell culture media without wasting space.

5. Long-Term Stability:

- Ensuring the long-term stability of stored media is a challenge, as factors like temperature fluctuations, light exposure, and oxygen permeation can impact media quality over time.

Key Market Trends

1. Technological Advancements:

- Automation has revolutionized cell culture processes, increasing efficiency and enabling high-throughput screening.

- Sensors and data logging capabilities in storage containers allow real-time monitoring and remote access to critical parameters.

- Sustainable storage containers made from biodegradable materials address environmental concerns.

2. Segmental Insights:

- Storage bags offer a cost-effective and efficient solution, appealing to laboratories and facilities seeking streamlined processes and operational efficiency.

3. Application Insights:

- The biopharmaceutical production segment dominates the market, driven by the growth of the biopharmaceutical industry and the need for efficient cell culture media storage.

4. Regional Insights:

- The Asia-Pacific region's biotech and pharmaceutical sectors, along with a focus on research and development, contribute to its dominance in the market.

These market drivers, challenges, and trends underscore the critical role of cell culture media storage containers in advancing scientific research and biotechnology.

Key Market Players

Medtronic

Thermo Fisher Scientific Inc.

Merck KGaA

CYTIVA

Sartorius AG

Greiner Bio-One International GmbH

Corning Incorporated

VWR International, LLC.

Saint Gobain, Diagnostics

HiMedia Laboratories

Report Scope:

In this report, the Global Cell Culture Media Storage Containers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Cell Culture Media Storage Containers Market, By Product:

Storage Bags

Storage Bottles

Storage Bins & Drums

Storage Assemblies

Other

Cell Culture Media Storage Containers Market, By Application:

Biopharmaceutical Production

Diagnostics

Tissue Engineering

Regenerative Medicine

Cell Culture Media Storage Containers Market, By End-Use:

Academic & Research Institutes

Contract Research Organizations

Pharmaceutical & Biotechnology Companies

Cell Culture Media Storage Containers Market, By Region:

North America

Asia-Pacific

Europe

Middle East & Africa

South America

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cell Culture Media Storage Containers Market.

Available Customizations:

Global Cell Culture Media Storage Containers Market report with the given market data,

Cell Culture Media Storage Containers Market- Global Industry Size, Share, Trends, Opportunity, and Forecast,...

Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

2. RESEARCH METHODOLOGY

3. IMPACT OF COVID-19 ON GLOBAL CELL CULTURE MEDIA STORAGE CONTAINERS MARKET

4. VOICE OF CUSTOMER

5. EXECUTIVE SUMMARY

6. GLOBAL PHAGE THERAPY MARKET OVERVIEW

7. GLOBAL CELL CULTURE MEDIA STORAGE CONTAINERS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product (Storage Bags , Storage Bottles, Storage Bins & Drums , Storage Assemblies, Other)

7.2.2. By Application (Biopharmaceutical Production, Diagnostics, Tissue Engineering and Regenerative Medicine)

7.2.3. By End Use (Academic & Research Institutes, Contract Research Organizations, Pharmaceutical & Biotechnology Companies)

7.2.4. By Company (2022)

7.2.5. By Region

7.3. Market Map

7.3.1. By Product

7.3.2. By Application

7.3.3. By End Use

8. NORTH AMERICA CELL CULTURE MEDIA STORAGE CONTAINERS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Product

8.2.2. By Application

8.2.3. By End Use

8.2.4. By Country

8.3. Policy & Regulatory Landscape

8.4. North America: Country Analysis

8.4.1. United States Cell Culture Media Storage Containers Market Outlook

8.4.1.1. Market Size & Forecast

8.4.1.1.1. By Value

8.4.1.2. Market Share & Forecast

8.4.1.2.1. By Product

8.4.1.2.2. By Application

8.4.1.2.3. By End Use

8.4.2. Mexico Cell Culture Media Storage Containers Market Outlook

8.4.2.1. Market Size & Forecast

8.4.2.1.1. By Value

8.4.2.2. Market Share & Forecast

8.4.2.2.1. By Product

8.4.2.2.2. By Application

8.4.2.2.3. By End Use

8.4.3. Canada Cell Culture Media Storage Containers Market Outlook

8.4.3.1. Market Size & Forecast

8.4.3.1.1. By Value

8.4.3.2. Market Share & Forecast

8.4.3.2.1. By Product

8.4.3.2.2. By Application

8.4.3.2.3. By End Use

9. EUROPE CELL CULTURE MEDIA STORAGE CONTAINERS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

- 9.2.1. By Product
- 9.2.2. By Application
- 9.2.3. By End Use
- 9.2.4. By Country
- 9.3. Policy & Regulatory Landscape
- 9.4. Europe: Country Analysis
 - 9.4.1. France Cell Culture Media Storage Containers Market Outlook
 - 9.4.1.1. Market Size & Forecast
 - 9.4.1.1.1. By Value
 - 9.4.1.2. Market Share & Forecast
 - 9.4.1.2.1. By Product
 - 9.4.1.2.2. By Application
 - 9.4.1.2.3. By End Use
 - 9.4.2. Germany Cell Culture Media Storage Containers Market Outlook
 - 9.4.2.1. Market Size & Forecast
 - 9.4.2.1.1. By Value
 - 9.4.2.2. Market Share & Forecast
 - 9.4.2.2.1. By Product
 - 9.4.2.2.2. By Application
 - 9.4.2.2.3. By End Use
 - 9.4.3. United Kingdom Cell Culture Media Storage Containers Market Outlook
 - 9.4.3.1. Market Size & Forecast
 - 9.4.3.1.1. By Value
 - 9.4.3.2. Market Share & Forecast
 - 9.4.3.2.1. By Product
 - 9.4.3.2.2. By Application
 - 9.4.3.2.3. By End Use
 - 9.4.4. Italy Cell Culture Media Storage Containers Market Outlook
 - 9.4.4.1. Market Size & Forecast
 - 9.4.4.1.1. By Value
 - 9.4.4.2. Market Share & Forecast
 - 9.4.4.2.1. By Product
 - 9.4.4.2.2. By Application
 - 9.4.4.2.3. By End Use
 - 9.4.5. Spain Cell Culture Media Storage Containers Market Outlook
 - 9.4.5.1. Market Size & Forecast
 - 9.4.5.1.1. By Value
 - 9.4.5.2. Market Share & Forecast
 - 9.4.5.2.1. By Product

9.4.5.2.2. By Application

9.4.5.2.3. By End Use

10. ASIA-PACIFIC CELL CULTURE MEDIA STORAGE CONTAINERS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product

10.2.2. By Application

10.2.3. By End Use

10.2.4. By Country

10.3. Policy & Regulatory Landscape

10.4. Asia-Pacific: Country Analysis

10.4.1. China Cell Culture Media Storage Containers Market Outlook

10.4.1.1. Market Size & Forecast

10.4.1.1.1. By Value

10.4.1.2. Market Share & Forecast

10.4.1.2.1. By Product

10.4.1.2.2. By Application

10.4.1.2.3. By End Use

10.4.2. India Cell Culture Media Storage Containers Market Outlook

10.4.2.1. Market Size & Forecast

10.4.2.1.1. By Value

10.4.2.2. Market Share & Forecast

10.4.2.2.1. By Product

10.4.2.2.2. By Application

10.4.2.2.3. By End Use

10.4.3. Japan Cell Culture Media Storage Containers Market Outlook

10.4.3.1. Market Size & Forecast

10.4.3.1.1. By Value

10.4.3.2. Market Share & Forecast

10.4.3.2.1. By Product

10.4.3.2.2. By Application

10.4.3.2.3. By End Use

10.4.4. South Korea Cell Culture Media Storage Containers Market Outlook

10.4.4.1. Market Size & Forecast

10.4.4.1.1. By Value

- 10.4.4.2. Market Share & Forecast
 - 10.4.4.2.1. By Product
 - 10.4.4.2.2. By Application
 - 10.4.4.2.3. By End Use
- 10.4.5. Australia Cell Culture Media Storage Containers Market Outlook
 - 10.4.5.1. Market Size & Forecast
 - 10.4.5.1.1. By Value
 - 10.4.5.2. Market Share & Forecast
 - 10.4.5.2.1. By Product
 - 10.4.5.2.2. By Application
 - 10.4.5.2.3. By End Use

11. SOUTH AMERICA CELL CULTURE MEDIA STORAGE CONTAINERS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Product
 - 11.2.2. Application
 - 11.2.3. By End Use
 - 11.2.4. By Country
- 11.3. Policy & Regulatory Landscape
- 11.4. South America: Country Analysis
 - 11.4.1. Brazil Cell Culture Media Storage Containers Market Outlook
 - 11.4.1.1. Market Size & Forecast
 - 11.4.1.1.1. By Value
 - 11.4.1.2. Market Share & Forecast
 - 11.4.1.2.1. By Product
 - 11.4.1.2.2. By Application
 - 11.4.1.2.3. By End Use
 - 11.4.2. Argentina Cell Culture Media Storage Containers Market Outlook
 - 11.4.2.1. Market Size & Forecast
 - 11.4.2.1.1. By Value
 - 11.4.2.2. Market Share & Forecast
 - 11.4.2.2.1. By Product
 - 11.4.2.2.2. By Application
 - 11.4.2.2.3. By End Use
 - 11.4.3. Colombia Cell Culture Media Storage Containers Market Outlook

- 11.4.3.1. Market Size & Forecast
 - 11.4.3.1.1. By Value
- 11.4.3.2. Market Share & Forecast
 - 11.4.3.2.1. By Product
 - 11.4.3.2.2. By Application
 - 11.4.3.2.3. By End Use

12. MIDDLE EAST AND AFRICA CELL CULTURE MEDIA STORAGE CONTAINERS MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Share & Forecast
 - 12.2.1. By Product
 - 12.2.2. By Application
 - 12.2.3. By End Use
 - 12.2.4. By Country
- 12.3. Policy & Regulatory Landscape
- 12.4. MEA: Country Analysis
 - 12.4.1. South Africa Cell Culture Media Storage Containers Market Outlook
 - 12.4.1.1. Market Size & Forecast
 - 12.4.1.1.1. By Value
 - 12.4.1.2. Market Share & Forecast
 - 12.4.1.2.1. By Product
 - 12.4.1.2.2. Application
 - 12.4.1.2.3. By End Use
 - 12.4.2. Saudi Arabia Cell Culture Media Storage Containers Market Outlook
 - 12.4.2.1. Market Size & Forecast
 - 12.4.2.1.1. By Value
 - 12.4.2.2. Market Share & Forecast
 - 12.4.2.2.1. By Product
 - 12.4.2.2.2. By Application
 - 12.4.2.2.3. By End Use
 - 12.4.3. UAE Cell Culture Media Storage Containers Market Outlook
 - 12.4.3.1. Market Size & Forecast
 - 12.4.3.1.1. By Value
 - 12.4.3.2. Market Share & Forecast
 - 12.4.3.2.1. By Product
 - 12.4.3.2.2. By Application

12.4.3.2.3. By End Use

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS & DEVELOPMENTS

15. PORTER'S FIVE FORCE'S ANALYSIS

16. GLOBAL CELL CULTURE MEDIA STORAGE CONTAINERS MARKET: SWOT ANALYSIS

17. LIST OF COMMERCIALY AVAILABLE PHAGE PRODUCTS FOR ANIMAL HEALTH

18. COMPETITIVE LANDSCAPE

18.1. Business Overview

18.2. Company Snapshot

18.3. Products & Services

18.4. Financials (In case of listed companies)

18.5. Recent Developments

18.6. SWOT Analysis

18.6.1. Medtronic

18.6.2. Thermo Fisher Scientific Inc.

18.6.3. Merck KGaA

18.6.4. CYTIVA

18.6.5. Sartorius AG

18.6.6. Greiner Bio-One International GmbH

18.6.7. Corning Incorporated

18.6.8. VWR International, LLC.

18.6.9. Saint Gobain, Diagnostics

18.6.10. HiMedia Laboratories

19. STRATEGIC RECOMMENDATIONS

20. ABOUT US & DISCLAIMER

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