

Cell Culture Media Market By Type (Natural Media, Artificial Media), By Application (Biopharmaceutical Production, Regenerative Medicine and Tissue Engineering, Diagnostics , Drug Screening and Development, Others), By End User (Biotechnology and Pharmaceutical Industry, Research and Academic Institute, Hospitals and Diagnostic Laboratories , Others): Global Opportunity Analysis and Industry Forecast, 2024-2035

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Abstracts

The cell culture media market was valued at \$5,189.11 million in 2023 and is estimated to reach \$17,548.06 million by 2035, exhibiting a CAGR of 10.7% from 2024 to 2035.

Cell culture media is a solution that facilitates the growth of cells in a laboratory setting, outside of their natural environment. The media consists of several elements such as macro & micronutrients, growth factors, buffering system, and antibiotics & antifungals. The role of a cell culture media is to provide the essential components for the growth, differentiation, and functioning of cells.

Increase in demand for biosimilars and biologics such as monoclonal antibodies & vaccines acts as a key driver of the cell culture media market as the development of these products involves the growth of living cells. In addition, expansion of the life sciences industry and upsurge in biotechnology research are augmenting the market development significantly. A notable trend gaining prominence in the market is the development of serum-free media to eliminate the use of animal-based products. The

serum is incorporated into the media to provide enhanced nutrients to the growing cells; thus, due to surge in ethical concerns pertaining to the use of animal-based products, regulatory bodies such as the Food and Drug Administration are promoting the use of serum-free media.

However, achieving the functionality and consistency of the media in large-scale productions is an intricate process that hampers the development of the market. Moreover, the advent of alternative and more advanced technologies such as the organ-on-a-chip model is replacing the conventional cell culture method, thereby restraining the market growth. On the contrary, rise in recognition for the precision medicine approach is projected to present lucrative growth opportunities for the cell culture media market as the media is a crucial component for examining personalized drugs and treatments. According to the American Pharmaceutical Review—a leading review journal in the pharmaceutical industry—global expenditure on precision medicine treatment was approximately \$32 billion in 2022 and is projected to cross the mark of \$124 billion by 2027. Therefore, increase in the adoption of precision medicine is an indicator of the probable increase in the requirement for cell culture media in the future.

Segment Review

The cell culture media market is segmented into type, application, end user, and region. On the basis of type, the market is bifurcated into natural media and artificial media. The artificial media is further fragmented into serum-containing media, serum-free media, chemically defined media, and others. As per application, the market is divided into biopharmaceuticals production, regenerative medicine & tissue engineering, diagnostics, drug screening & development, and others. Depending on end user, it is categorized into biotechnology & pharmaceutical industry, research & academic institute, hospitals & diagnostic laboratories, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The major companies profiled in the cell culture media market include Thermo Fisher Scientific Inc., Merck KGaA, Danaher Corporation, STEMCELL Technologies Inc., Sartorius Stedim Biotech S.A, PromoCell GmbH, Lonza Group AG, Corning Incorporated, Fujifilm Holdings Corporation, and Takara Bio USA, Inc.

Competition Analysis

The major companies profiled in the cell culture media market include Thermo Fisher Scientific Inc., Merck KGaA, Danaher Corporation, STEMCELL Technologies Inc.,

Sartorius Stedim Biotech S.A., PromoCell GmbH, Lonza Group AG, Corning Incorporated, Fujifilm Holdings Corporation, and Takara Bio USA, Inc. These major players have adopted various key development strategies such as acquisition, product launch, product development, and expansion to strengthen their foothold in the competitive market.

Key Benefits for Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the cell culture media market analysis from 2023 to 2035 to identify the prevailing cell culture media market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the cell culture media market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global cell culture media market trends, key players, market segments, application areas, and market growth strategies.

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Key Market Segments

By Type

Natural Media

Artificial Media

Type

Serum Containing Media

Serum Free Media

Chemically Defined Media

Others

By Application

Biopharmaceutical Production

Regenerative Medicine and Tissue Engineering

Diagnostics

Drug Screening and Development

Others

By End User

Biotechnology and Pharmaceutical Industry

Research and Academic Institute

Hospitals and Diagnostic Laboratories

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest Of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Sartorius Stedim Biotech S.A

PromoCell GmbH

Merck KGaA

Corning Incorporated

Thermo Fisher Scientific Inc.

STEMCELL Technologies Inc.

Lonza Group AG

TAKARA HOLDINGS INC.

Danaher Corporation

Fujifilm Holdings Corporation

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
 - 3.3.1. High bargaining power of suppliers
 - 3.3.2. Moderate threat of new entrants
 - 3.3.3. Moderate threat of substitutes
 - 3.3.4. Moderate intensity of rivalry
 - 3.3.5. High bargaining power of buyers
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.1.1. Growth in demand for biologics and biosimilars
 - 3.4.1.2. Advancements in biotechnology and pharmaceutical research
 - 3.4.1.3. Increasing prevalence of chronic diseases
 - 3.4.2. Restraints
 - 3.4.2.1. High cost of specialized media
 - 3.4.2.2. Complex regulatory environment
 - 3.4.3. Opportunities
 - 3.4.3.1. Rise in demand for personalized medicines

CHAPTER 4: CELL CULTURE MEDIA MARKET, BY TYPE

4.1. Overview

4.1.1. Market size and forecast

4.2. Natural Media

4.2.1. Key market trends, growth factors and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market share analysis by country

4.3. Artificial Media

4.3.1. Key market trends, growth factors and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market share analysis by country

4.3.4. Artificial Media Cell Culture Media Market by Type

4.3.4.1. Serum Containing Media Market size and forecast, by region

4.3.4.2. Serum Containing Media Market size and forecast, by country

4.3.4.3. Serum Free Media Market size and forecast, by region

4.3.4.4. Serum Free Media Market size and forecast, by country

4.3.4.5. Chemically Defined Media Market size and forecast, by region

4.3.4.6. Chemically Defined Media Market size and forecast, by country

4.3.4.7. Others Market size and forecast, by region

4.3.4.8. Others Market size and forecast, by country

CHAPTER 5: CELL CULTURE MEDIA MARKET, BY APPLICATION

5.1. Overview

5.1.1. Market size and forecast

5.2. Biopharmaceutical Production

5.2.1. Key market trends, growth factors and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market share analysis by country

5.3. Regenerative Medicine and Tissue Engineering

5.3.1. Key market trends, growth factors and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market share analysis by country

5.4. Diagnostics

5.4.1. Key market trends, growth factors and opportunities

5.4.2. Market size and forecast, by region

5.4.3. Market share analysis by country

5.5. Drug Screening and Development

- 5.5.1. Key market trends, growth factors and opportunities
- 5.5.2. Market size and forecast, by region
- 5.5.3. Market share analysis by country
- 5.6. Others
 - 5.6.1. Key market trends, growth factors and opportunities
 - 5.6.2. Market size and forecast, by region
 - 5.6.3. Market share analysis by country

CHAPTER 6: CELL CULTURE MEDIA MARKET, BY END USER

- 6.1. Overview
 - 6.1.1. Market size and forecast
- 6.2. Biotechnology and Pharmaceutical Industry
 - 6.2.1. Key market trends, growth factors and opportunities
 - 6.2.2. Market size and forecast, by region
 - 6.2.3. Market share analysis by country
- 6.3. Research and Academic Institute
 - 6.3.1. Key market trends, growth factors and opportunities
 - 6.3.2. Market size and forecast, by region
 - 6.3.3. Market share analysis by country
- 6.4. Hospitals and Diagnostic Laboratories
 - 6.4.1. Key market trends, growth factors and opportunities
 - 6.4.2. Market size and forecast, by region
 - 6.4.3. Market share analysis by country
- 6.5. Others
 - 6.5.1. Key market trends, growth factors and opportunities
 - 6.5.2. Market size and forecast, by region
 - 6.5.3. Market share analysis by country

CHAPTER 7: CELL CULTURE MEDIA MARKET, BY REGION

- 7.1. Overview
 - 7.1.1. Market size and forecast By Region
- 7.2. North America
 - 7.2.1. Key market trends, growth factors and opportunities
 - 7.2.2. Market size and forecast, by Type
 - 7.2.2.1. North America Artificial Media Cell Culture Media Market by Type
 - 7.2.3. Market size and forecast, by Application
 - 7.2.4. Market size and forecast, by End User

7.2.5. Market size and forecast, by country

7.2.5.1. U.S.

7.2.5.1.1. Market size and forecast, by Type

7.2.5.1.1.1. U.S. Artificial Media Cell Culture Media Market by Type

7.2.5.1.2. Market size and forecast, by Application

7.2.5.1.3. Market size and forecast, by End User

7.2.5.2. Canada

7.2.5.2.1. Market size and forecast, by Type

7.2.5.2.1.1. Canada Artificial Media Cell Culture Media Market by Type

7.2.5.2.2. Market size and forecast, by Application

7.2.5.2.3. Market size and forecast, by End User

7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by Type

7.2.5.3.1.1. Mexico Artificial Media Cell Culture Media Market by Type

7.2.5.3.2. Market size and forecast, by Application

7.2.5.3.3. Market size and forecast, by End User

7.3. Europe

7.3.1. Key market trends, growth factors and opportunities

7.3.2. Market size and forecast, by Type

7.3.2.1. Europe Artificial Media Cell Culture Media Market by Type

7.3.3. Market size and forecast, by Application

7.3.4. Market size and forecast, by End User

7.3.5. Market size and forecast, by country

7.3.5.1. Germany

7.3.5.1.1. Market size and forecast, by Type

7.3.5.1.1.1. Germany Artificial Media Cell Culture Media Market by Type

7.3.5.1.2. Market size and forecast, by Application

7.3.5.1.3. Market size and forecast, by End User

7.3.5.2. France

7.3.5.2.1. Market size and forecast, by Type

7.3.5.2.1.1. France Artificial Media Cell Culture Media Market by Type

7.3.5.2.2. Market size and forecast, by Application

7.3.5.2.3. Market size and forecast, by End User

7.3.5.3. UK

7.3.5.3.1. Market size and forecast, by Type

7.3.5.3.1.1. UK Artificial Media Cell Culture Media Market by Type

7.3.5.3.2. Market size and forecast, by Application

7.3.5.3.3. Market size and forecast, by End User

7.3.5.4. Italy

- 7.3.5.4.1. Market size and forecast, by Type
 - 7.3.5.4.1.1. Italy Artificial Media Cell Culture Media Market by Type
- 7.3.5.4.2. Market size and forecast, by Application
- 7.3.5.4.3. Market size and forecast, by End User
- 7.3.5.5. Spain
 - 7.3.5.5.1. Market size and forecast, by Type
 - 7.3.5.5.1.1. Spain Artificial Media Cell Culture Media Market by Type
 - 7.3.5.5.2. Market size and forecast, by Application
 - 7.3.5.5.3. Market size and forecast, by End User
- 7.3.5.6. Rest Of Europe
 - 7.3.5.6.1. Market size and forecast, by Type
 - 7.3.5.6.1.1. Rest Of Europe Artificial Media Cell Culture Media Market by Type
 - 7.3.5.6.2. Market size and forecast, by Application
 - 7.3.5.6.3. Market size and forecast, by End User
- 7.4. Asia-Pacific
 - 7.4.1. Key market trends, growth factors and opportunities
 - 7.4.2. Market size and forecast, by Type
 - 7.4.2.1. Asia-Pacific Artificial Media Cell Culture Media Market by Type
 - 7.4.3. Market size and forecast, by Application
 - 7.4.4. Market size and forecast, by End User
 - 7.4.5. Market size and forecast, by country
 - 7.4.5.1. Japan
 - 7.4.5.1.1. Market size and forecast, by Type
 - 7.4.5.1.1.1. Japan Artificial Media Cell Culture Media Market by Type
 - 7.4.5.1.2. Market size and forecast, by Application
 - 7.4.5.1.3. Market size and forecast, by End User
 - 7.4.5.2. China
 - 7.4.5.2.1. Market size and forecast, by Type
 - 7.4.5.2.1.1. China Artificial Media Cell Culture Media Market by Type
 - 7.4.5.2.2. Market size and forecast, by Application
 - 7.4.5.2.3. Market size and forecast, by End User
 - 7.4.5.3. India
 - 7.4.5.3.1. Market size and forecast, by Type
 - 7.4.5.3.1.1. India Artificial Media Cell Culture Media Market by Type
 - 7.4.5.3.2. Market size and forecast, by Application
 - 7.4.5.3.3. Market size and forecast, by End User
 - 7.4.5.4. Australia
 - 7.4.5.4.1. Market size and forecast, by Type
 - 7.4.5.4.1.1. Australia Artificial Media Cell Culture Media Market by Type

- 7.4.5.4.2. Market size and forecast, by Application
- 7.4.5.4.3. Market size and forecast, by End User
- 7.4.5.5. South Korea
 - 7.4.5.5.1. Market size and forecast, by Type
 - 7.4.5.5.1.1. South Korea Artificial Media Cell Culture Media Market by Type
 - 7.4.5.5.2. Market size and forecast, by Application
 - 7.4.5.5.3. Market size and forecast, by End User
- 7.4.5.6. Rest of Asia-Pacific
 - 7.4.5.6.1. Market size and forecast, by Type
 - 7.4.5.6.1.1. Rest of Asia-Pacific Artificial Media Cell Culture Media Market by Type
 - 7.4.5.6.2. Market size and forecast, by Application
 - 7.4.5.6.3. Market size and forecast, by End User
- 7.5. LAMEA
 - 7.5.1. Key market trends, growth factors and opportunities
 - 7.5.2. Market size and forecast, by Type
 - 7.5.2.1. LAMEA Artificial Media Cell Culture Media Market by Type
 - 7.5.3. Market size and forecast, by Application
 - 7.5.4. Market size and forecast, by End User
 - 7.5.5. Market size and forecast, by country
 - 7.5.5.1. Brazil
 - 7.5.5.1.1. Market size and forecast, by Type
 - 7.5.5.1.1.1. Brazil Artificial Media Cell Culture Media Market by Type
 - 7.5.5.1.2. Market size and forecast, by Application
 - 7.5.5.1.3. Market size and forecast, by End User
 - 7.5.5.2. Saudi Arabia
 - 7.5.5.2.1. Market size and forecast, by Type
 - 7.5.5.2.1.1. Saudi Arabia Artificial Media Cell Culture Media Market by Type
 - 7.5.5.2.2. Market size and forecast, by Application
 - 7.5.5.2.3. Market size and forecast, by End User
 - 7.5.5.3. South Africa
 - 7.5.5.3.1. Market size and forecast, by Type
 - 7.5.5.3.1.1. South Africa Artificial Media Cell Culture Media Market by Type
 - 7.5.5.3.2. Market size and forecast, by Application
 - 7.5.5.3.3. Market size and forecast, by End User
 - 7.5.5.4. Rest of LAMEA
 - 7.5.5.4.1. Market size and forecast, by Type
 - 7.5.5.4.1.1. Rest of LAMEA Artificial Media Cell Culture Media Market by Type
 - 7.5.5.4.2. Market size and forecast, by Application
 - 7.5.5.4.3. Market size and forecast, by End User

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top winning strategies
- 8.3. Product mapping of top 10 player
- 8.4. Competitive dashboard
- 8.5. Competitive heatmap
- 8.6. Top player positioning, 2023

CHAPTER 9: COMPANY PROFILES

- 9.1. Thermo Fisher Scientific Inc.
 - 9.1.1. Company overview
 - 9.1.2. Key executives
 - 9.1.3. Company snapshot
 - 9.1.4. Operating business segments
 - 9.1.5. Product portfolio
 - 9.1.6. Business performance
 - 9.1.7. Key strategic moves and developments
- 9.2. Merck KGaA
 - 9.2.1. Company overview
 - 9.2.2. Key executives
 - 9.2.3. Company snapshot
 - 9.2.4. Operating business segments
 - 9.2.5. Product portfolio
 - 9.2.6. Business performance
 - 9.2.7. Key strategic moves and developments
- 9.3. Danaher Corporation
 - 9.3.1. Company overview
 - 9.3.2. Key executives
 - 9.3.3. Company snapshot
 - 9.3.4. Operating business segments
 - 9.3.5. Product portfolio
 - 9.3.6. Business performance
- 9.4. STEMCELL Technologies Inc.
 - 9.4.1. Company overview
 - 9.4.2. Key executives
 - 9.4.3. Company snapshot

- 9.4.4. Operating business segments
- 9.4.5. Product portfolio
- 9.5. Sartorius Stedim Biotech S.A
 - 9.5.1. Company overview
 - 9.5.2. Key executives
 - 9.5.3. Company snapshot
 - 9.5.4. Operating business segments
 - 9.5.5. Product portfolio
 - 9.5.6. Business performance
- 9.6. PromoCell GmbH
 - 9.6.1. Company overview
 - 9.6.2. Key executives
 - 9.6.3. Company snapshot
 - 9.6.4. Operating business segments
 - 9.6.5. Product portfolio
- 9.7. Lonza Group AG
 - 9.7.1. Company overview
 - 9.7.2. Key executives
 - 9.7.3. Company snapshot
 - 9.7.4. Operating business segments
 - 9.7.5. Product portfolio
 - 9.7.6. Business performance
 - 9.7.7. Key strategic moves and developments
- 9.8. Corning Incorporated
 - 9.8.1. Company overview
 - 9.8.2. Key executives
 - 9.8.3. Company snapshot
 - 9.8.4. Operating business segments
 - 9.8.5. Product portfolio
 - 9.8.6. Business performance
- 9.9. Fujifilm Holdings Corporation
 - 9.9.1. Company overview
 - 9.9.2. Key executives
 - 9.9.3. Company snapshot
 - 9.9.4. Operating business segments
 - 9.9.5. Product portfolio
 - 9.9.6. Business performance
- 9.10. TAKARA HOLDINGS INC.
 - 9.10.1. Company overview

- 9.10.2. Key executives
- 9.10.3. Company snapshot
- 9.10.4. Operating business segments
- 9.10.5. Product portfolio
- 9.10.6. Business performance

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