

Microcarrier Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global microcarrier market reached a value of US\$ 1.5 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 2.1 Billion by 2027, exhibiting a CAGR of 6% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

Microcarriers are beads manufactured using different materials like gelatin, dextran, cellulose, plastic, and glass. They provide anchorage or an attachment surface for the suspended cell culture, which aids in increasing the viability of cells. They also enhance the production capacity, improve culture robustness, facilitate process scale-up, and reduce cell manufacturing costs. As a result, they are widely utilized in cell-line production and with bioreactors. Moreover, as they are easy to handle and have a high surface-to-volume ratio, they are gaining traction worldwide as an alternative to monolayer procedures for nerve and muscle cultures.

Microcarrier Market Trends:

Microcarriers are extensively used during the production of vaccines to increase protein-producing and virus-generating adherent cell populations. This, along with the urgent need for mass vaccination to control the spread of the coronavirus disease (COVID-19), represents one of the key factors impelling the market growth. In addition, the rising prevalence of viral diseases is catalyzing the demand for microcarrier-based vaccine delivery systems. These systems modulate the immune responses and other immunostimulatory compounds, thereby increasing the availability of antigens to the immune cells. Apart from this, dissolvable microcarriers composed of cross-linked polysaccharide polymers are widely being used in large-scale cell production and in cell

therapy applications. This, in confluence with the rising geriatric population and the risk of developing cancer with age, is catalyzing the demand for cell therapeutics and microcarriers. Furthermore, researchers are focusing on introducing microcarriers using a genetic algorithm and a transient liquid molding optofluidic approach. They are also developing three-dimensional (3D) shaped hydrogel cell microcarriers that allow adherent culture and self-alignment for imaging flow cytometry. This is projected to contribute to the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global microcarrier market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on product, material type, application and end user.

Breakup by Product:

- Equipment
- Bioreactors
- Culture Vessels
- Filtration Systems
- Cell Counters
- Accessories
- Consumables
- Media
- Reagents
- Microcarrier Beads

Breakup by Material Type:

- Alginate-based
- Collagen-based
- Dextran-based
- Polystyrene-based
- Others

Breakup by Application:

- Vaccine Manufacturing
- Cell Therapy

Others

Breakup by End User:

Pharmaceutical and Biotechnology Companies

Academic and Research Institutes

Contract Research Organizations (CROs)

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being CESCO Bioengineering Co. Ltd., ChemoMetec A/S,

Corning Incorporated, Cytiva (Danaher Corporation), Eppendorf AG, Esco VacciXcell, HiMedia Laboratories, Lonza Group AG, Merck KGaA, Sartorius AG, Thermo Fisher Scientific Inc. and VWR International LLC (Avantor Inc.).

Key Questions Answered in This Report:

How has the global microcarrier market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global microcarrier market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the material type?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global microcarrier market and who are the key players?

What is the degree of competition in the industry?

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 MICROCARRIER MARKET

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

6 MARKET BREAKUP BY PRODUCT

- 6.1 Equipment
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Bioreactors
 - 6.1.2.2 Culture Vessels
 - 6.1.2.3 Filtration Systems
 - 6.1.2.4 Cell Counters

- 6.1.2.5 Accessories
- 6.1.3 Market Forecast
- 6.2 Consumables
 - 6.2.1 Market Trends
 - 6.2.2 Key Segments
 - 6.2.2.1 Media
 - 6.2.2.2 Reagents
 - 6.2.2.3 Microcarrier Beads
 - 6.2.3 Market Forecast

7 MARKET BREAKUP BY MATERIAL TYPE

- 7.1 Alginate-based
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Collagen-based
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Dextran-based
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Polystyrene-based
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Others
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

- 8.1 Vaccine Manufacturing
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Cell Therapy
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Others
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY END USER

9.1 Pharmaceutical and Biotechnology Companies

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Academic and Research Institutes

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Contract Research Organizations (CROs)

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Others

9.4.1 Market Trends

9.4.2 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 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 South Korea

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Australia

- 10.2.5.1 Market Trends
- 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 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 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 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 Others
 - 10.4.3.1 Market Trends

- 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 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 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 CESCO Bioengineering Co. Ltd.
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.2 ChemoMetec A/S
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials

- 15.3.3 Corning Incorporated
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
- 15.3.4 Cytiva (Danaher Corporation)
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
- 15.3.5 Eppendorf AG
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 SWOT Analysis
- 15.3.6 Esco VacciXcell
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
- 15.3.7 HiMedia Laboratories
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
- 15.3.8 Lonza Group AG
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
- 15.3.9 Merck KGaA
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
- 15.3.10 Sartorius AG
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis
- 15.3.11 Thermo Fisher Scientific Inc.
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials
 - 15.3.11.4 SWOT Analysis
- 15.3.12 VWR International LLC (Avantor Inc.)

15.3.12.1 Company Overview

15.3.12.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Microcarrier Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Microcarrier Market Forecast: Breakup by Product (in Million US\$), 2022-2027

Table 3: Global: Microcarrier Market Forecast: Breakup by Material Type (in Million US\$), 2022-2027

Table 4: Global: Microcarrier Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 5: Global: Microcarrier Market Forecast: Breakup by End User (in Million US\$), 2022-2027

Table 6: Global: Microcarrier Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Microcarrier Market: Competitive Structure

Table 8: Global: Microcarrier Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Microcarrier Market: Major Drivers and Challenges

Figure 2: Global: Microcarrier Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Microcarrier Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: Microcarrier Market: Breakup by Product (in %), 2021

Figure 5: Global: Microcarrier Market: Breakup by Material Type (in %), 2021

Figure 6: Global: Microcarrier Market: Breakup by Application (in %), 2021

Figure 7: Global: Microcarrier Market: Breakup by End User (in %), 2021

Figure 8: Global: Microcarrier Market: Breakup by Region (in %), 2021

Figure 9: Global: Microcarrier (Equipment) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Microcarrier (Equipment) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Microcarrier (Consumables) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Microcarrier (Consumables) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Microcarrier (Alginate-based) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Microcarrier (Alginate-based) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Microcarrier (Collagen-based) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Microcarrier (Collagen-based) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Microcarrier (Dextran-based) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Microcarrier (Dextran-based) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Microcarrier (Polystyrene-based) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Microcarrier (Polystyrene-based) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Microcarrier (Other Material Types) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Microcarrier (Other Material Types) Market Forecast: Sales Value (in

Million US\$), 2022-2027

Figure 23: Global: Microcarrier (Vaccine Manufacturing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Microcarrier (Vaccine Manufacturing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Microcarrier (Cell Therapy) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Microcarrier (Cell Therapy) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Microcarrier (Other Applications) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Microcarrier (Other Applications) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Microcarrier (Pharmaceutical and Biotechnology Companies) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Microcarrier (Pharmaceutical and Biotechnology Companies) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Microcarrier (Academic and Research Institutes) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Microcarrier (Academic and Research Institutes) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Microcarrier (Contract Research Organizations-CROs) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Microcarrier (Contract Research Organizations-CROs) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Global: Microcarrier (Other End Users) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Global: Microcarrier (Other End Users) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: North America: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: North America: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: United States: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: United States: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Canada: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 42: Canada: Microcarrier Market Forecast: Sales Value (in Million US\$),

2022-2027

Figure 43: Asia-Pacific: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Asia-Pacific: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: China: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: China: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Japan: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Japan: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: India: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: India: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: South Korea: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: South Korea: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Australia: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Australia: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Indonesia: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Indonesia: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Others: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Others: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Europe: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Europe: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Germany: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Germany: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: France: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: France: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: United Kingdom: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: United Kingdom: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Italy: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Italy: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027

- Figure 69: Spain: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 70: Spain: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 71: Russia: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 72: Russia: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 73: Others: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 74: Others: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 75: Latin America: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 76: Latin America: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 77: Brazil: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 78: Brazil: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 79: Mexico: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 80: Mexico: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 81: Others: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 82: Others: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 83: Middle East and Africa: Microcarrier Market: Sales Value (in Million US\$), 2016 & 2021
- Figure 84: Middle East and Africa: Microcarrier Market: Breakup by Country (in %), 2021
- Figure 85: Middle East and Africa: Microcarrier Market Forecast: Sales Value (in Million US\$), 2022-2027
- Figure 86: Global: Microcarrier Industry: SWOT Analysis
- Figure 87: Global: Microcarrier Industry: Value Chain Analysis
- Figure 88: Global: Microcarrier Industry: Porter's Five Forces Analysis

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