

# **Global Microcarrier Market Size study & Forecast, by Consumables (Media & Reagents, Microcarrier Beads), By Application (Biopharmaceutical Production, Regenerative Medicine), By End-user (Pharmaceutical & Biotechnology Companies, Contract Research Organizations & Contract Manufacturing Organizations, Academic & Research Institutes), and Regional Analysis, 2022-2029**

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## **Abstracts**

Global Microcarrier Market is valued at approximately USD 1.21 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 11.6% over the forecast period 2022-2029. Microcarriers are utilized as support for the development and proliferation of cells. Glass, plastic, and dextran are common synthetic materials used to create microcarriers. Typically, non-toxic and made up of very small particles, microcarriers are found in nature. Additionally, natural ingredients including gelatin, cellulose, and collagen are used in their production. In the bioprinting process, microcarriers are employed to strengthen the building blocks. The market is expanding because of significant factors such as technological advancements in cell biology research, growing demand for cell-based vaccines & therapeutics and increased investments in developing cell & gene-based therapies.

The generation of vaccinations in cell cultures has been made possible by technological improvements, which have led to faster, more efficient, and even more effective manufacturing of vaccines. According to the CDC (Centers for Disease Control and Prevention), Flucelvax Quadrivalent, a cell culture-based influenza vaccine, has received FDA approval for use in people six months of age and older. Along with the

present pandemic, the rising prevalence of chronic and infectious disorders is anticipated to fuel the microcarrier market's over the coming years. Additionally, microcarrier-cell aggregates used in biomanufacturing require extensive downstream processing to successfully detach and harvest the therapeutic cells, raising the prices and, to some extent, impeding market expansion. The development of novel microcarrier technologies, on the other hand, has been made possible by advances in cell biology research. For instance, SMART researchers—Singapore and MIT Alliance for Science and Technology—announced in November 2020 that they had created gelatin-based microcarriers with excellent yields and scalability. Due to their dissolvability and ease of cell separation, these microcarriers allow for efficient manufacture. However, the high cost of downstream Processing stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Microcarrier Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is expected to be the fastest-growing region owing to growing awareness of personalized medicine, improved healthcare infrastructure and reimbursement models, the presence of major market participants and intense R&D activities that have all contributed to the rise in cases of infectious and chronic diseases in the region. On the other side, Asia Pacific is expected to be the fastest growing region due to the highest geriatric population and domestic biologics demand, along with expanding economies. Additionally, several regional Asian and worldwide companies are building bioprocessing plants.

Major market player included in this report are:

Corning Incorporated

Thermo Fisher Scientific, Inc.

Merck KGaA

Danaher Corporation

Sartorius AG

Eppendorf SE

Bio-Rad Laboratories, Inc.

HiMedia Laboratories Pvt. Ltd.

denovoMATRIX GmbH

Becton Dickinson and Co

Recent Developments in the Market:

A new product called beadMATRIX was launched in May 2022 by denovoMATRIX GmbH, a cell and gene therapy manufacturing company which is headquarters in

Germany. The new product, enables high-quality & rapid stem cell proliferation, is a unique microcarrier bead for the 3D culture of MSCs.

Singapore witnessed the expansion of Lonza's mammalian services facility in October 2021. This capacity has been increased by the CDMO to meet the expanding production and analytical needs. The region's adoption of microcarriers in the coming years will be influenced by the initial focus on the creation of biosimilar monoclonal antibodies (mAbs), as well as vaccines due to numerous government immunisation initiatives.

Global Microcarrier Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Application, Consumable Outlook, End User Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Consumable Outlook:

Media & Reagents

Microcarrier Beads

By Application:

Regenerative Medicine

Biopharmaceutical Production

By End User:

Pharmaceutical & Biotechnology Companies

Contract Research Organizations & Contract Manufacturing Organizations

Academic & Research Institutes

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

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