

# Microcarriers Market Size, Share & Trends Analysis Report By Consumables (Media & Reagents, Microcarrier Beads), By Application (Biopharmaceutical Production, Regenerative Medicine), By End-user, By Region, And Segment Forecasts, 2022 - 2030

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## **Abstracts**

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Microcarriers Market Growth & Trends

The global microcarriers market size is estimated to reach USD 3.2 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 11.6% from 2022 to 2030. The growth of the market is driven by the rising demand of cell-cultured products, the growing burden of diseases worldwide, constant investments for intensive R&D activities to identify and develop new treatments for rare disorders, and the continuous developments in technologies employed in advanced research such as cell-biology.4

Amidst the COVID-19 pandemic, the market witnessed a positive growth. The continuous strive of scientist and researchers to find and develop vaccines for the SARS-CoV2 virus resulted in scaling up of R&D efforts by both healthcare companies and academic institutes. The increased research activities, huge funding, and growing demand of therapeutic products resulted in the growth of the market. Moreover, development of viral vectors based vaccines requires efficient production of viruses which is possible using microcarriers cell-culture. For instance, scientists from University of Copenhagen demonstrated in their research article published in June 2021



that SARS-CoV2 virus was efficiently produced in Vero cells in a single-use bioreactors packed with carrier beads. Findings like these have boosted the COVID-19 vaccine production further propelling market growth.

Moreover, the marketspace is rapidly expanding owing to the high usage of microcarriers as matrix for adherent cell manufacturing and these small spherical beads are used across all scales of commercial production. The increasing demand of innovative therapeutic options such as cell and gene therapy, viral vaccines, and monoclonal antibodies for treatment of malignant and rare diseases has resulted in increase in the biopharmaceutical production capacities. For example, Pfizer Inc., announced in December 2021 that it has invested USD 68.5 million and opened a new facility in North Carolina, USA. With the expansion the company is focused on enhancing its gene therapy capabilities and clinically develops its portfolio for hemophilia A and B, DMD (Duchenne muscular dystrophy), ALS (amyotrophic lateral sclerosis) and many more neurologic, endocrine as well as metabolic diseases. Such increased investments for development of biopharmaceuticals and regenerative medicines are expected to propel the market growth.

Furthermore, cell-biology based research involves exhaustive R&D for developing new therapies. But these efforts require investments for cell lines, media, equipment and other related products for microcarriers culture and thus requires huge influx of money. Institutes and emerging players with budget constraints will limit the cell based research for therapeutics development. Hence, it will decrease the adoption of cell-culture products and restrain the growth. However, government initiatives for novel drug production and collaboration & partnerships with key players can offer investment relief and enhance the market growth.

## Microcarriers Market Report Highlights

By consumables, the microcarriers beads segment held the largest revenue share in 2021. Presence of key players offering the products along with their continuous usage during bio-manufacturing process drives market growth

By application, the biopharmaceutical production segment dominated the market in 2021. Increased demand for vaccine during the COVID-19 pandemic and continuous regulatory support for therapeutics boosts the usage of microcarriers during bio-manufacturing, leading to highest segment share

By end-user, the pharmaceutical and biotechnology companies are the highest



revenue generators in microcarriers market in 2021. New drug development programs, intensive R&D pipeline, growing investments for therapeutic products contributes to the revenue generation

North America region captured the largest share in 2021 for microcarriers market. The major factors for the regional dominance are prevalence of diseases, presence of key market players, high usage of cell based products, and supportive government initiatives

Asia Pacific region will witness the fastest growth in the microcarriers market during the forecast, due to rising R&D activities, increased domestic demand of biologics and growing economies



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