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Microcarriers Market by Product (Equipment (Single Use Bioreactor, SSB, Cell Counter, Filtration), Consumables (Media, Reagent), Beads (Natural (Collagen), Synthetic (Polystyrene)), Application (Vaccine, CGT, Stem Cells) - Global Forecast to 2029

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Abstracts

The global microcarriers market is projected to reach USD 3.05 billion by 2029 from USD 2.08 billion in 2024, at a CAGR of 8.0% during the forecast period of 2024 to 2029. The factors contributing to the growth of the microcarriers market are rising investments in cell & gene therapy research, technological advancement in in microcarrier-based cell production and increasing applications of microcarrier in vaccines and therapeutics development. Furthermore, limitations in high-density cell culture and high cost of research and development are the factors expected to hinder the market growth over the forecast period.

“The pharmaceutical and biotechnology companies segment accounted for the largest share by end user in 2023.”

Based on end user, the microcarriers market is segmented into pharmaceutical & biotechnology companies, academic and research institutes, contract research organizations & contract manufacturing organizations, and cell banks. The pharmaceutical & biotechnology companies segment accounted for the largest share of the microcarriers market in 2023. The larger share of this segment is mainly attributed to the growing regulatory approvals for cell-based vaccines, increased adoption of single-use bioprocessing products, recent developments in 3D cell culture, increased production of monoclonal antibodies (mAbs), and growing awareness of the advantages of cell-based vaccines.

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“The US has continued to dominate the microcarriers market during the forecast period of 2024-2032.”

The US leads the globe in biopharmaceutical research and investment, and it has the biggest biopharmaceutical market in the world. The need for safe and high-quality products in the healthcare industry, the growing number of patients with chronic diseases, the growing significance of biopharmaceuticals, and the rising investments and funding in biomedical research by government agencies and pharmaceutical and biotechnology companies are all driving factor for US market. Another important element fostering market expansion is the region's well-established presence of a number of industry participants. Among these important businesses are Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), and Corning Incorporated (US).

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 60% and Demand Side 40%

By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

By Region: North America -40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

List of key Companies Profiled in the Report:

Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Merck KGaA (Germany), Sartorius AG (Germany), Corning Incorporated (US), FUJIFILM Holdings Corporation (Japan), BD (US), Eppendorf SE (Germany), Lonza (Switzerland), Getinge AB (Sweden), Bio-Rad Laboratories, Inc. (US), KURARAY CO., LTD. (Japan), Entegris (US), Teijin Limited (Japan), Asahi Kasei Corporation (Japan), Cellevate AB (Sweden), REPROCELL Inc. (Japan) denovoMATRIX GmbH (Germany), Bio-Link (China), bbi-biotech GmbH (Germany), G&G Technologies, Inc. (US), Solida Biotech GmbH (Germany), Smart MCs PTY LTD (Australia), BIONET (Spain), and PBS Biotech, Inc. (US).

Research Coverage:

This research report categorizes the gene therapy market by Product (Consumables

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(Media (Sera/Serum-based Media, Serum-free Media, and Other Media), Reagents, Microcarrier Beads (Natural (Cellulose, Collagen, Alginate, and Other Natural Material), Synthetic (Polystyrene, Dextran, PLGA, Polyvinyl Alcohol, and Other Synthetic Material), and Other Material), Cell Culture Vessels, Accessories, and Other Consumables, Equipment (Bioreactors (Stainless-Steel Bioreactors and Single-Use Bioreactors), Cell Counters, Filtration and Separation Systems, and Other Equipment)), by Application (Biopharmaceutical Production (Vaccine Production and Therapeutic Protein Production), Tissue Engineering and Regenerative Medicine (Cell and Gene Therapy, and Other Tissue Engineering and Regenerative Medicine Applications), and Other Applications), by End User (Pharmaceutical & Biotechnology Companies, Contract Research Organizations & Contract Manufacturing Organizations, Academic and Research Institutes, and Cell Banks) and by region (North America, Europe, Asia Pacific, Latin America, Middle East and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the microcarriers market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, solutions, key strategies, collaborations, partnerships, and agreements. New approvals/launches, collaborations and acquisitions, and recent developments associated with the microcarriers market.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall microcarriers market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Growing adoption of microcarriers for cell-based vaccine production, Technological advancements to support microcarrier-based cell production, Rising investments in cell & gene therapy research, Growing preference for single-use technologies, and Increasing R&D spending for biopharmaceutical production), restraints (High cost of cell biology research and Limitations in high-density cell culture production), opportunities (Rising demand for 3D cell culture, Growing demand for mAbs and biosimilars, and High-growth

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potential of emerging economics), and Challenges (High costs associated with serum-free media and Microcarrier-cell detachment).

Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product approvals/launches in the microcarriers market.

Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the microcarriers market

Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players. A detailed analysis of the key industry players has been done to provide insights into their key strategies, product launches/ approvals, pipeline analysis, acquisitions, partnerships, agreements, collaborations, other recent developments, investment and funding activities, brand/product comparative analysis, and vendor valuation and financial metrics of the microcarriers market.

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