

# **Europe Microcarriers Market Forecast to 2030 - Regional Analysis - by Product (Media & Reagents and Microcarrier Beads), Equipment (Bioreactors, Culture Vessels, and Others), Application (Biopharmaceutical Production, Cell and Gene Therapy, Tissue Engineering and Regenerative Medicine, and Others), and End User (Pharmaceutical and Biotechnology Companies, Contract Research Organizations & Contract Manufacturing Organizations, and Academic & Research Institutes)**

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## **Abstracts**

The Europe microcarriers market is expected to grow from US\$ 417.19 million in 2022 to US\$ 1,035.52 million by 2030. It is estimated to record a CAGR of 12.0% from 2022 to 2030.

Strategic Initiatives and Innovative Products by Microcarrier Manufacturers Drive Europe Microcarriers Market

Companies operating in the microcarriers market focus on strategic developments such as collaborations, expansions, agreements, partnerships, and new product launches, which help them improve their sales, expand their geographic reach, and enhance their capacities to cater to a larger than existing customer base. A few of the noteworthy developments in the microcarriers market are mentioned, In October 2023, Kuraray Co., Ltd. developed PVA hydrogel microcarriers for cell cultures used in regenerative medicine. The product is scheduled for launch in January 2024 in Japan and overseas,

beginning in the US. In June 2023, Teijin Frontier introduced new nonwoven microcarriers that enable speedy, large-scale, high-quality cell culture. The new nonwoven microcarriers combine Teijin Frontier's proprietary fiber process and nonwoven design technology, and fiber-related biomedical expertise by the Faculty of Engineering, University of Fukui, Japan. In October 2023, Semarion, unveiled the Early Adopter Programme for its SemaCyte Microcarrier Platform. SemaCytes developed by Semarion are cell carrier materials created using microchip fabrication technologies, nanomagnetism, and smart materials. These assaying microcarriers are flat and function as ultraminiaturized, magnetically steerable wells that carry small colonies of adherent cells into suspension to improve cell-based experiments. In January 2021, Thermo Fisher Scientific Inc acquired Henogen S.A., a Belgium-based viral vector manufacturing business of Groupe Novasep SAS. Henogen provides vaccine and therapeutics manufacturing services to biotechnology companies and large biopharmaceutical customers. With this acquisition, Thermo Fisher Scientific expanded its capabilities in the cell and gene vaccines and therapies category. In November 2020, researchers from the Singapore-MIT Alliance for Science and Technology (SMART) developed a novel microcarrier for large-scale cell production and cell expansion. Employing this microcarrier would allow businesses to have higher yields in a more cost-effective way than traditional methods while lowering the number of steps involved in the cell retrieval process. This newly developed dissolvable Gelatin microcarrier from SMART can be used in cell expansion for treating various ailments, including bone and cartilage defects, and graft vs. host disease, i.e., the rejection of foreign bone marrow and cells. Therefore, introducing products such as PVA hydrogel microcarriers, nonwoven microcarriers, and SemaCyte microcarrier platform, and the initiation of new businesses through collaborations and partnerships to remain competitive in the market would create significant growth opportunities in the microcarriers market.

## Europe Microcarriers Market Overview

Europe holds a significant share of the global microcarrier market. The market growth in this region is attributed to the well-developed healthcare sector and infrastructure, and the significantly high healthcare spending in economies such as Germany, the UK, France, Romania, and Portugal. The increasing demand for advancements in cell culture equipment for better biopharmaceutical productivity and ongoing research with reliable outcomes are resulting in automated cell culture processes and systems. In addition, contract manufacturing and research facilities are operating on huge scales to meet the ever-increasing demands of the European healthcare sector for advanced treatment options. The pharmaceutical industry in Germany consists of small and mid-sized companies; it ranks fourth among the countries with the largest pharmaceutical

industries in the world. As per the International Trade Administration (ITA), the pharmaceutical market in Germany accounted for ~US\$ 62.5 billion in 2019. The country is most likely to remain one of the most desirable destinations for the global pharmaceutical industries over the coming years in terms of manufacturing and supply. The industry's growth is driven by factors such as increasing investments in R&D and the elevating number of patent applications. The Federal Institute for Vaccines and Biomedical Products at Paul-Ehrlich-Institut (PEI) conducts the batch testing of influenza vaccines before their release into the German market. Germany has a strong pharmaceutical industry with a notable R&D focus. As per a NecstGen report, more than 29 active clinical trials evaluating CAR-modified immune cells were underway in Germany in 2021, and the majority of the production involved CAR-T cells. Also, over 50 clinical studies have been conducted in gene therapy in Germany so far.

## Europe Microcarriers Market Revenue and Forecast to 2030 (US\$ Million)

### Europe Microcarriers Market Segmentation

The Europe microcarriers market is segmented into product, equipment, application, end user, and country.

Based on product, the Europe microcarriers market is bifurcated into microcarriers beads and media & reagents. The microcarriers beads segment held a larger share of the Europe microcarriers market in 2022.

In terms of equipment, the Europe microcarriers market is segmented into bioreactors, culture vessels, and others. The bioreactors segment held the largest share of the Europe microcarriers market in 2022.

Based on application, the Europe microcarriers market is segmented into biopharmaceutical production, cell and gene therapy, tissue engineering and regenerative medicine, and other. The biopharmaceutical production segment held the largest share of the Europe microcarriers market in 2022. Further, biopharmaceutical production segment is categorized into therapeutic protein production and vaccine production.

Based on end user, the Europe microcarriers market is segmented into pharmaceutical & biotechnology companies, contract research organizations & contract manufacturing organizations, and academic & research institutes. The pharmaceutical & biotechnology companies segment held the largest share of the Europe microcarriers market in 2022.

Based on country, the Europe microcarriers market is segmented into Germany, the UK, France, Italy, Spain, and the Rest of Europe. Germany dominated the Europe microcarriers market in 2022.

Teijin Ltd, Bio-Rad Laboratories Inc, denovoMATRIX GmbH, Sartorius AG, Danaher Corp, Corning Inc, Eppendorf SE, Percell Biolytica AB, Asahi Kasei Corp, and Polysciences Inc are some of the leading companies operating in the Europe microcarriers market.

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