

Viral Vector Manufacturing Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Adenoviral Vectors, Adeno-Associated Viral Vectors, Lentiviral Vectors, Retroviral Vectors, and Others), Disease Indication (Cancer, Genetic Disorders, Infectious Disease, and Others), Application (Therapeutics Development and Vaccine Development, Research), End User (Pharmaceutical and Biotechnology Companies, CDMOs & CROs, and Research Institutes), and Geography

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Abstracts

The viral vector manufacturing market size was valued at US\$ 1.74 billion in 2024 and is expected to reach US\$ 5.76 billion by 2031; it is estimated to record a CAGR of 18.8% from 2025 to 2031.

The viral vector manufacturing market is segmented into five major regions—North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South & Central America. Asia Pacific dominated the market in 2024, followed by Europe and North America, respectively.

Pharmaceutical and biotechnology companies represent a core application segment in the healthcare and life sciences industry. These organizations rely heavily on innovative tools, technologies, and platforms to accelerate drug discovery, development, and commercialization. With increasing pressure to reduce time-to-market and enhance the

efficiency of R&D pipelines, companies are investing in advanced analytical tools, high-throughput screening systems, and data-driven platforms. These tools support activities ranging from early-stage target identification to preclinical and clinical evaluations. The growing complexity of diseases, especially in areas like oncology, neurology, and rare diseases, has also fueled the demand for precision medicine, thereby increasing the reliance on genomics, proteomics, and biomarker analysis. Furthermore, regulatory requirements and the need for robust clinical validation drive the adoption of standardized and scalable application solutions. Pharmaceutical and biotech companies are also increasingly collaborating with technology providers and outsourcing partners to gain access to specialized expertise and infrastructure.

Viral vector manufacturing market future trend: The rise of personalized medicine—an approach that customizes medical treatments to individual genetic profiles—is significantly transforming the viral vector manufacturing landscape. Unlike conventional therapies that are developed for broad populations, personalized treatments require highly specific and adaptable delivery mechanisms. Viral vectors, particularly adeno-associated viruses (AAV) and lentiviruses, are at the forefront of this transformation due to their ability to efficiently deliver genetic material with precision and safety.

One of the most prominent examples is in the field of cell and gene therapy, especially in CAR-T (Chimeric Antigen Receptor T-cell) therapies. These involve modifying a patient's T-cells outside the body using viral vectors, then reintroducing them to combat cancer. Since each treatment is tailored to the individual, the manufacturing of viral vectors must be highly flexible, safe, and reproducible, often in small batches. This has led to an increase in demand for contract development and manufacturing organizations (CDMOs) that can offer specialized, small-scale, GMP-compliant vector production.

Similarly, gene therapies for rare genetic disorders are driving advancements in viral vector capabilities. Treatments such as Zolgensma, used for spinal muscular atrophy, and Luxturna, for inherited retinal disease, rely on AAV vectors to deliver corrective genes directly to affected cells. The success of these therapies has set a new benchmark for precision vector design and production. It also highlights the need for scalable manufacturing that supports high purity and low off-target effects, a requirement that traditional mass-production systems struggle to meet. Another emerging application is in personalized cancer vaccines.

Lonza Group AG; Merck KGaA; Thermo Fisher Scientific Inc., Catalent Inc., Charles River Laboratories International Inc., WuXi AppTec Co Ltd; FUJIFILM Holdings Corp; GenScript Biotech Corporation; Takara Bio Inc., Novartis AG are among the key players

profiled during this market study. Several other essential market players were also studied and analyzed to get a holistic view of the global viral vector manufacturing market and its ecosystem.

The overall viral vector manufacturing market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the viral vector manufacturing market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the viral vector manufacturing market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the global Viral Vector Manufacturing market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations highlight crucial progressive industry trends in the global Viral Vector Manufacturing market, thereby allowing players across the value chain to develop effective long-term strategies

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth global Viral Vector Manufacturing market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

The List of Companies - Viral Vector Manufacturing Market

Lonza Group AG

Merck KGaA

Thermo Fisher Scientific Inc.

Catalent Inc.

Charles River Laboratories International Inc.

WuXi AppTec Co Ltd

FUJIFILM Holdings Corp

GenScript Biotech Corporation

Takara Bio Inc.

Novartis AG

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