

Global CAR-T Cell Manufacturing Service Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global CAR-T Cell Manufacturing Service market size was valued at US\$ 216 million in 2025 and is forecast to a readjusted size of US\$ 306 million by 2032 with a CAGR of 5.0% during review period.

CAR-T Cell Manufacturing Service refers to the specialized biomanufacturing process of producing chimeric antigen receptor T cells (CAR-T cells) for therapeutic use. This service covers the end-to-end workflow, including collection of patient or donor T cells, genetic modification to express CARs, expansion and activation of modified cells, rigorous quality control, formulation, cryopreservation, and delivery to hospitals or clinical sites. The service can be performed in-house by therapy developers, or outsourced to contract development and manufacturing organizations (CDMOs), and supports both autologous (patient-specific) and allogeneic (off-the-shelf) CAR-T therapies. It ensures compliance with regulatory standards, maintains product consistency and potency, and enables scalable production to meet clinical and commercial demands.

CAR-T Cell Manufacturing Service is shifting from small-batch, highly manual, patient-specific production toward more standardized, automated, closed-system, and CDMO-supported manufacturing models, driven by the growing commercialization of CAR-T therapies, expanding clinical pipelines, and rising demand for faster vein-to-vein turnaround. Key opportunities come from outsourcing by biotech companies, commercial-scale capacity expansion, allogeneic/off-the-shelf CAR-T development, process automation, viral vector supply integration, and growth in China, the U.S., and Europe. Major challenges include high manufacturing cost, batch-to-batch variability,

complex quality control, cold-chain logistics, limited skilled labor, regulatory compliance, capacity bottlenecks, and pressure to reduce production time and cost.

This report is a detailed and comprehensive analysis for global CAR-T Cell Manufacturing Service market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global CAR-T Cell Manufacturing Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global CAR-T Cell Manufacturing Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global CAR-T Cell Manufacturing Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global CAR-T Cell Manufacturing Service market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for CAR-T Cell Manufacturing Service

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global CAR-T Cell Manufacturing Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a

part of this study include Charles River Laboratories, Cytiva, Miltenyi Biotec, ProMab Biotechnologies, Inc, Creative Biogene, Thermo Fisher Scientific Inc, Kite Pharma, Inc, sartorius, Cyagen Biosciences, sino biological, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

CAR-T Cell Manufacturing Service market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Custom Manufacturing

Standard Manufacturing

Market segment by Cell Source

Autologous CAR-T Manufacturing

Allogeneic (Universal) CAR-T Manufacturing

In Vivo CAR-T Manufacturing

Market segment by Production Scale

Small-Scale Services: 200 Batches/Year

Market segment by Application

Clinical Research

Clinical Treatment

Other

Market segment by players, this report covers

Charles River Laboratories

Cytiva

Miltenyi Biotec

ProMab Biotechnologies, Inc

Creative Biogene

Thermo Fisher Scientific Inc

Kite Pharma, Inc

sartorius

Cyagen Biosciences

sino biological

Xellera Therapeutics Asia Limited

gracell bio

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-

Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe CAR-T Cell Manufacturing Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of CAR-T Cell Manufacturing Service, with revenue, gross margin, and global market share of CAR-T Cell Manufacturing Service from 2021 to 2026.

Chapter 3, the CAR-T Cell Manufacturing Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and CAR-T Cell Manufacturing Service market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of CAR-T Cell Manufacturing Service.

Chapter 13, to describe CAR-T Cell Manufacturing Service research findings and conclusion.

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