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U.S. mRNA Therapeutics Contract Development & Manufacturing Organization Market Size, Share & Trends Analysis Report By Indication (Infectious Diseases, Metabolic & Genetic Diseases), By Application, By End Use, And Segment Forecasts, 2025 - 2033

https://marketpublishers.com/r/UC2115E17C84EN.html
Date: August 2025
Pages: 120
Price: US$ 5,950.00 (Single User License)
ID: UC2115E17C84EN

Abstracts

U.S. mRNA Therapeutics CDMO Market Summary

The U.S. mRNA therapeutics contract development & manufacturing organization market size was estimated at USD 1.43 billion in 2024 and is projected to reach USD 4.85 billion by 2033, growing at a CAGR of 14.57% from 2025 to 2033. The market is driven by strong presence of biotech companies, research institutions, and a supportive regulatory environment.

Moreover, expanding usage of mRNA in vaccines, cancer treatments, and rare genetic diseases is expected to boost the market growth. As several biotech companies are involved in the development of mRNA-based therapeutics, these companies are increasingly turning to CDMOs for services such as plasmid DNA production, in vitro transcription (IVT), lipid nanoparticle (LNP) formulation, and aseptic fill/finish for cost-effectiveness and reduced time to market. In addition, integration of novel technologies such as automation, AI-based quality control, and advanced LNP systems boosts production capabilities, thereby driving the market growth potential in the near future.

The strong presence of leading pharmaceutical, biotechnology, and life sciences companies drives the demand in the market. The country remains a central drug discovery and innovation hub, supported by deep scientific expertise, advanced

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infrastructure, and robust funding ecosystems. The growing interest in clinical trials, particularly for mRNA-based therapeutics across oncology, infectious diseases, and rare genetic conditions, is propelling the demand for flexible and scalable CDMO services. Besides, increasing innovation of live biotherapeutics and next-generation biologics is expected to drive the market growth. These advancements are especially relevant in targeting previously untreatable or rare diseases, creating substantial outsourcing opportunities for CDMOs equipped with mRNA synthesis, lipid nanoparticle (LNP) formulation, and aseptic fill/finish capabilities. Furthermore, the well-established regulatory framework led by agencies such as the U.S. FDA facilitates accelerated development timelines, a

pprovals through breakthrough therapy and fast-track designations, and a clear path for GMP compliance. Thus, supportive regulatory policies and government funding are anticipated to drive the market over the estimated time period.

U.S. mRNA Therapeutics Contract Development & Manufacturing Organization Market Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. mRNA therapeutics contract development & manufacturing organization market report based on indication, application, and end use.

Indication Outlook (Revenue, USD Million, 2021 - 2033)

Infectious Diseases

Metabolic & Genetic Diseases

Cardiovascular & Cerebrovascular Diseases

Application Outlook (Revenue, USD Million, 2021 - 2033)

Viral Vaccines

Protein Replacement Therapies

Cancer Immunotherapies

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End Use Outlook (Revenue, USD Million, 2021 - 2033)

Biotech Companies

Pharmaceutical Companies

Government & Academic Research Institutes

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CHAPTER 5. U.S. MRNA THERAPEUTICS CONTRACT DEVELOPMENT & MANUFACTURING ORGANIZATION MARKET: APPLICATION ESTIMATES &

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