

# Global mRNA Drug Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global mRNA Drug market size is expected to reach \$ 641 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global mRNA therapeutics production capacity is about 2,250,000 doses, with actual production reaching approximately 1,750,000 doses. The average global market price is around US\$ 320 per dose. The market gross margin mainly ranges between 55% and 75%. mRNA therapeutics are a class of biopharmaceutical products that use messenger RNA (mRNA) molecules to instruct cells to produce specific proteins for therapeutic purposes. After delivery into the body, the mRNA sequence enters cells and utilizes the cellular translation machinery to synthesize the encoded protein, which can trigger immune responses, replace missing proteins, or modulate disease-related biological pathways. Unlike traditional drugs that directly supply proteins or chemical compounds, mRNA therapeutics provide genetic instructions that enable cells to produce the therapeutic proteins themselves. These therapies are typically delivered using lipid nanoparticle (LNP) delivery systems to protect the mRNA and facilitate cellular uptake. mRNA therapeutics have been widely studied and developed for vaccines, cancer immunotherapy, protein replacement therapy, and rare disease treatment. Their advantages include rapid development cycles, flexible design, and scalable manufacturing processes.

The upstream of the mRNA therapeutics industry mainly includes nucleoside raw materials, plasmid DNA templates, enzymes used in in vitro transcription, lipid nanoparticle materials, and specialized biochemical reagents. These materials are critical for mRNA synthesis, purification, and formulation processes. The midstream involves mRNA sequence design, in vitro transcription, purification, encapsulation using lipid nanoparticles, formulation development, and large-scale biomanufacturing. Strict

quality control and cold-chain logistics are essential to maintain product stability and efficacy. The downstream includes pharmaceutical companies, hospitals, vaccination programs, and clinical treatment systems. Applications span vaccines, oncology therapeutics, infectious disease prevention, and rare disease treatment. The industry also includes supporting services such as contract development and manufacturing organizations (CDMOs), clinical research services, and regulatory consulting.

The mRNA therapeutics market has experienced rapid expansion following the global success of mRNA-based vaccines. The platform's flexibility and rapid development capability have made it one of the most promising technologies in modern biopharmaceutical innovation. One of the primary growth drivers is the expansion of mRNA technology beyond infectious disease vaccines. Pharmaceutical companies are actively developing mRNA-based cancer immunotherapies, protein replacement therapies, and treatments for rare genetic diseases. These applications significantly broaden the potential market scope of mRNA therapeutics. Another important factor is the continuous improvement of delivery technologies, particularly lipid nanoparticle (LNP) systems. Advances in delivery efficiency and safety are enabling mRNA drugs to target a wider range of tissues and diseases. In addition, increasing investments from governments, biotechnology companies, and venture capital funds are accelerating research and clinical development. As clinical pipelines continue to mature, mRNA therapeutics are expected to play an increasingly important role in the future pharmaceutical landscape.

This report studies the global mRNA Drug production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for mRNA Drug and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of mRNA Drug that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global mRNA Drug total production and demand, 2021-2032, (K Dose)

Global mRNA Drug total production value, 2021-2032, (USD Million)

Global mRNA Drug production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Dose), (based on production site)

Global mRNA Drug consumption by region & country, CAGR, 2021-2032 & (K Dose)

U.S. VS China: mRNA Drug domestic production, consumption, key domestic manufacturers and share

Global mRNA Drug production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Dose)

Global mRNA Drug production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Dose)

Global mRNA Drug production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Dose)

This report profiles key players in the global mRNA Drug market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Moderna, Pfizer, Zydus Cadila, Fosun Pharma, CureVAC, BioNtech, AstraZeneca, Janssen, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World mRNA Drug market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Dose) and average price (US\$/Dose) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global mRNA Drug Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global mRNA Drug Market, Segmentation by Type:

Prophylactic Vaccine (Infectious Disease)

Therapeutic Vaccine (Cancer)

Global mRNA Drug Market, Segmentation by Target Cell:

Intramuscular (Dendritic Cell) mRNA

Intravenous (Liver-targeted) mRNA

Intradermal (Skin APC) mRNA

Inhalation (Lung epithelial) mRNA

Global mRNA Drug Market, Segmentation by Manufacturing Scale:

Lab-scale (Preclinical, 100g)

## Global mRNA Drug Market, Segmentation by Application:

Pharmaceutical Companies

Medical Institutions

Others

## Companies Profiled:

Moderna

Pfizer

Zydus Cadila

Fosun Pharma

CureVAC

BioNtech

AstraZeneca

Janssen

## Key Questions Answered:

1. How big is the global mRNA Drug market?
2. What is the demand of the global mRNA Drug market?
3. What is the year over year growth of the global mRNA Drug market?
4. What is the production and production value of the global mRNA Drug market?
5. Who are the key producers in the global mRNA Drug market?
6. What are the growth factors driving the market demand?

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