

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

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## Abstracts

The global mRNA Vaccines market size is expected to reach \$ 19880 million by 2032, rising at a market growth of 11.6% CAGR during the forecast period (2026-2032).

In 2025, global mRNA vaccine production was about 1.1 billion doses with capacity near 2 billion doses per year; the average revenue per dose is USD 8, and innovator gross margins are around 62%. mRNA vaccines are biologic medicines that use messenger RNA (mRNA) molecules to instruct human cells to produce a harmless piece of a pathogen (such as a viral spike protein), which triggers an immune response without exposing the body to the actual disease. Their supply chain spans multiple specialized layers: upstream raw materials (nucleotides, enzymes, plasmid DNA templates, lipid components for lipid nanoparticles, buffers, and sterile consumables), midstream manufacturing (in-vitro transcription of mRNA, purification, lipid nanoparticle encapsulation, sterile fill-finish, and cold-chain packaging), and downstream distribution and deployment (ultra-cold storage logistics, regulatory release, healthcare delivery, and post-market pharmacovigilance). The ecosystem involves biotech innovators, contract development and manufacturing organizations (CDMOs), lipid and reagent suppliers, cold-chain logistics providers, and healthcare systems, making mRNA vaccines a highly integrated biopharmaceutical supply chain driven by rapid scalability, advanced materials, and stringent quality control.

The mRNA vaccine market is driven by pandemic preparedness policies, rapid platform scalability, and expanding applications beyond infectious diseases into oncology and rare diseases. Government funding, advance purchase agreements, and national biodefense strategies remain major demand anchors, while technological advantages such as faster development timelines, modular manufacturing, and strong IP protection support premium pricing and high margins. Growth is increasingly fueled by pipeline

diversification (flu, RSV, combination vaccines, personalized cancer vaccines), improvements in lipid nanoparticle delivery and thermostability, and the build-out of regional manufacturing capacity to ensure supply security.

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

This report is a detailed and comprehensive analysis of the world market for mRNA Vaccines 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 Vaccines that contribute to its increasing demand across many markets.

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

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

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

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

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

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

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

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

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

This report profiles key players in the global mRNA Vaccines 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, CureVac, Sanofi, BioNTech, Sangamo Therapeutics, Argos Therapeutics, In-Cell-Art, eTheRNA immunotherapies, Ethris, Tiba Biotechnology, 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 Vaccines 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 Vaccines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global mRNA Vaccines Market, Segmentation by Type:

Conventional mRNA

Self-amplifying mRNA

Trans-amplifying mRNA

Circular mRNA

### Global mRNA Vaccines Market, Segmentation by Platform Approach:

Standard IVT Platform Vaccines

Modular Platform Vaccines

Lyophilized mRNA Vaccines

### Global mRNA Vaccines Market, Segmentation by Antigen Strategy:

Single-antigen Vaccines

Multivalent Vaccines

Personalized Vaccines

### Global mRNA Vaccines Market, Segmentation by Application:

Infectious Diseases

Autoimmune Diseases

Cancers

Others

### Companies Profiled:

Moderna

CureVac

Sanofi

BioNTech

Sangamo Therapeutics

Argos Therapeutics

In-Cell-Art

eTheRNA immunotherapies

Ethris

Tiba Biotechnology

Pfizer

Arcturus Therapeutics

Genexine

Translate Bio

**Key Questions Answered:**

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

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