

Middle East mRNA Synthesis Raw Material Market Size, Share & Trends Analysis Report By Type (Capping Agents, Nucleotides, Plasmid DNA), By Application, By End Use, By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

The Middle East mRNA synthesis raw material market size was valued at USD 51.8 million in 2024 and is expected to reach USD 77.3 million by 2033, expanding at a CAGR of 4.73% from 2025 to 2033. The market is driven by the increasing acceptance of mRNA-based therapeutics and vaccines, the expansion of biopharmaceutical manufacturing capacity, and the growing investment in genomic and molecular research in the region.

Rising adoption of mRNA-based vaccines And therapeutics

One of the main factors driving the growth of the mRNA synthesis raw material market is the increasing demand for mRNA-based vaccines and therapeutics. The historic performance of mRNA vaccines during the COVID-19 pandemic has confirmed the technological effectiveness documented in initial R&D efforts and the scalability and flexibility of mRNA 'as a platform' to redefine modern medicine. This positive momentum in R&D activity generated demand for raw materials to prepare high-quality mRNA-associated products, with increased need for raw materials, such as nucleotides, capping reagents, enzymes, and lipid excipients, for mRNA synthesis and formulation.

Moreover, the increasing pipeline of mRNA therapeutics moving into clinical trials promotes long-term market growth. Governments and international health organizations are also supporting mRNA vaccine development programs to improve pandemic preparedness and fulfill other unmet medical needs. The expanding use of mRNA

technologies for personalized and precision medicine, primarily in cancer immunotherapy, continues to generate ongoing demand for tailored, GMP-grade synthesis materials. Collectively, the common clinical acceptance of mRNA and diversification of its uses is becoming more evident as an important market component of next-generation therapeutic innovation.

Middle East mRNA Synthesis Raw Material Market Report Segmentation

This report forecasts revenue growth and provides an analysis on the latest trends in each of the sub-segments from 2021 to 2033. For the purpose of this report, Grand View Research has segmented the Middle east mRNA synthesis raw material market on the basis of type, application, end-use, and country.

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

Capping Agents

- CleanCap Reagents

- ARCA (Anti-Reverse Cap Analog)

- Others

Nucleotides

- Modified Nucleic Acids

- N1-methylpseudouridine-triphosphate

- 5-Methylcytidine triphosphate (5mCTP)

- Natural Nucleic Acids

- Adenine

- Guanine

- Cytosine

Uracil

Plasmid DNA

Enzymes

Polymerase

RNase Inhibitor

DNase

Others

Others

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

Vaccine Production

Therapeutics Production

Others

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

Biopharmaceutical & Pharmaceutical Companies

CROs & CMOs

Academic & Research Institutes

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

Saudi Arabia

UAE

Kuwait

Qatar

Oman

Rest of Middle East

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