

Saudi Arabia Biotechnology Market By Product Type (Instruments, Reagents, Software and Services), By Technology (Nanobiotechnology, Tissue Engineering and Regeneration, DNA Sequencing, Cell-Based Assays, Fermentation, PCR Technology, Chromatography, Other), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Abstracts

Saudi Arabia Biotechnology Market was valued at USD 224.36 Million in 2024 and is expected to reach USD 277.09 Million by 2030 with a CAGR of 3.78% during the forecast period. The biotechnology market in Saudi Arabia is experiencing rapid growth, driven by the country's strategic initiatives to diversify its economy and strengthen its healthcare infrastructure. As part of the Vision 2030 framework, Saudi Arabia aims to transform into a global leader in innovation and technology, with biotechnology playing a central role in achieving this goal. The market is expanding across various sectors, including pharmaceuticals, agriculture, diagnostics, and biofuels, supported by robust government investment and a growing demand for advanced healthcare solutions.

Key Market Drivers

Growth in Healthcare Industry

The rapid growth of the healthcare industry in Saudi Arabia is playing a pivotal role in driving the expansion of its biotechnology market. The Ministry of Health (MOH) is a governmental entity within the Saudi Cabinet responsible for formulating and executing health policies, overseeing and regulating the healthcare sector, and safeguarding and promoting public health. Its mission is to support the achievement of the nation's vision

for a dynamic, healthy society, which serves as the cornerstone for economic prosperity. With a strong focus on improving healthcare infrastructure, advancing medical research, and enhancing the quality of life for its citizens, Saudi Arabia has become a fertile ground for biotechnology innovation and investment.

The demand for cutting-edge biotechnology solutions, including genetic testing, personalized medicine, and advanced therapeutics, is rising due to the increasing prevalence of chronic diseases such as diabetes, cancer, and cardiovascular conditions in the Saudi population. This, in turn, is spurring investment in biotechnology research and product development, creating new opportunities for both local and international players in the market.

Key Market Challenges

Limited Infrastructure and Facilities

Biotechnology is a research-intensive industry, and the success of biotech companies relies heavily on access to state-of-the-art laboratories and specialized research facilities. In Saudi Arabia, although some universities and institutions, such as King Abdullah University of Science and Technology (KAUST), have made significant investments in biotech research, there is still a need for more widespread, cutting-edge R&D infrastructure across the country. The lack of an extensive network of high-tech labs, bioreactors, and facilities dedicated to the testing and development of new biotech products limits the ability of local startups and established companies to innovate at the pace required to stay competitive on a global scale.

A significant challenge stemming from limited infrastructure is the scarcity of skilled personnel to operate and manage advanced biotech facilities. The biotechnology sector requires highly specialized talent in areas such as molecular biology, bioinformatics, and biomanufacturing. While Saudi Arabia has made strides in enhancing education and training in the sciences, the country still faces challenges in attracting and retaining top-tier professionals due to the relative underdevelopment of the biotech infrastructure and the limited availability of career opportunities in some specialized fields. This talent gap poses a significant barrier to establishing world-class research facilities and scaling biotech operations effectively.

Key Market Trends

Surge in Agricultural Biotechnology

A significant trend driving the growth of Saudi Arabia's biotechnology market is the surge in agricultural biotechnology. With the country's challenging arid climate and limited arable land, agricultural innovation has become a critical focus in Saudi Arabia's efforts to ensure food security and sustainable agricultural practices. Agricultural biotechnology, which encompasses the use of genetic engineering, molecular biology, and advanced breeding techniques, plays a crucial role in addressing these challenges.

In November 2024, the Kingdom of Saudi Arabia (KSA) introduced regulations permitting the import of biotech plant products, with a requirement for labeling if they contain more than one percent genetically engineered (GE) plant ingredients. Saudi Arabia is a significant importer of biotech U.S. corn and soybeans. While the import of biotech planting seeds is allowed, there are currently no commercial development activities for GE plants within the country.

Key Market Players

Saudi Biotechnology Manufacturing Co

Amgen Middle East FZ LLC

SaudiVax

Lifera Omics

Novartis Saudi Arabia

Report Scope

In this report, the Saudi Arabia Biotechnology Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Saudi Arabia Biotechnology Market, By Product Type:

Instruments

Reagents

Software and Services

Saudi Arabia Biotechnology Market, By Technology:

Nanobiotechnology

Tissue Engineering and Regeneration

DNA Sequencing

Cell-Based Assays

Fermentation

PCR Technology

Chromatography

Others

Saudi Arabia Biotechnology Market, By Region:

Eastern

Western

Northern & Central

Southern

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Biotechnology Market.

Available Customizations:

Saudi Arabia Biotechnology Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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