

Middle East & Africa Fish Vaccines Market Forecast to 2030 - Regional Analysis - by Vaccine Type (Inactivated Vaccines, Live Attenuated Vaccines, Subunit Vaccines, Recombinant Vector Vaccine, and Others), Application (Bacterial Infection, Viral Infection, and Parasitic), Route of Administration (Injection Vaccine, Immersion Vaccine, and Oral Vaccine), and Species (Salmon, Trout, Tilapia, and Others)

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Abstracts

The Middle East & Africa fish vaccines market was valued at US\$ 17.54 million in 2022 and is expected to reach US\$ 26.49 million by 2030; it is estimated to grow at a CAGR of 5.3% from 2022 to 2030.

Technological Advancements in Fish Vaccine Fuel the Middle East & Africa Fish Vaccines Market

Diversifying into new fish species, particularly marine fish, is a trend in the aquaculture sector. Farms across the world are increasingly relying on vaccinations to manage animal health. The development of novel pathogens with extensive antigenic diversity may also reduce the effectiveness of conventional vaccines. This motivates vaccine researchers to look into new techniques for creating potent vaccines for aquaculture. Subunit or recombinant DNA/RNA particle vaccines may have been created using modern vaccine technology, which is focused on specific pathogen components. Finding new vaccine candidates to fight fish pathogens such as mycotic and parasitic agents is made possible by recent advancements in vaccines and vaccinology. The development and production of fish vaccines can do rapidly with the help of new techniques in genetics, immunology, and biotechnology. These techniques include the

use of genetically engineered vectors, recombinant vaccines, and DNA vaccines.

DNA vaccine technology provides significant protection against fish diseases. Targeting the construct and/or transgene to antigen-receptor cells is a promising way to improve the DNA vaccine's effectiveness against other viral diseases. Molecular assemblies can be used to target dendritic cells (DC) and antigen-presenting cells (APC) in DNA vaccines, producing immune responses as a result. Another tactic is to encapsulate the DNA vaccine in specific carriers to increase transgene and MHC expression.

The development of novel vaccines known as recombinant DNA-based vaccine or new-generation vaccines has made extensive use of R DNA technology. Recombinant immunogenic protein vaccines or epitopes purified from vectors carrying the gene of interest produced in prokaryotic or eukaryotic expression systems, peptide vaccines, live vaccines produced by defined genetic manipulations, and microbial vectors carrying gene coding for immunogenic protein and DNA vaccines are among the types of vaccines based on recombinant DNA technology that have been developed.

Recombinant vaccines have the advantage of closely simulating naturally occurring infections, which aids in triggering a potent immune response in the treated fish. They can also be mass produced easily.

Middle East & Africa Fish Vaccines Market Overview

The Middle East & Africa fish vaccines market has been segmented into the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa. The market factors, such as rising consumption of seafood, growing government efforts, and rising infectious diseases among aquatic animals, are expected to boost the growth of fish vaccines over the forecast period. The South African fish vaccine market is mainly driven by the increasing production volume of aquaculture in the country. As per the data provided by the World Bank, aquaculture production in South Africa was 9,753 tonnes in 2020, and it increased to 10,525 tonnes in 2021. In South Africa, the sector is dominated by abalone, trout, and mussel, acting as a supplement to the fishing sector. Good infrastructure, business institutions, supply chains, and a supportive aquaculture legislation framework are responsible for the demand for aquaculture in the country. As the aquaculture industry grows, the production of healthy fish also increases, which, in turn, fuels the growth of the fish vaccines market.

Middle East & Africa Fish Vaccines Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Fish Vaccines Market Segmentation

The Middle East & Africa fish vaccines market is segmented based on vaccine type, application, route of administration, species, and country.

Based on vaccine type, the Middle East & Africa fish vaccines market is segmented into inactivated vaccines, live attenuated vaccines, subunit vaccines, recombinant vector vaccine, and others. The inactivated vaccines segment held the largest market share in

2022.

Based on application, the Middle East & Africa fish vaccines market is segmented into bacterial infection, viral infection, and parasitic. The bacterial infection segment held the largest market share in 2022.

Based on route of administration, the Middle East & Africa fish vaccines market is segmented into injection vaccine, immersion vaccine, and oral vaccine. The injection vaccine segment held the largest market share in 2022.

Based on species, the Middle East & Africa fish vaccines market is segmented into salmon, trout, tilapia, and others. The salmon segment held the largest market share in 2022.

Based on country, the Middle East & Africa fish vaccines market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa fish vaccines market share in 2022.

Elanco Animal Health Inc, Hipra SA, Merck & Co Inc., Phibro Animal Health Corp, Vaxxinova International BV, and Zoetis Inc. are some of the leading companies operating in the Middle East & Africa fish vaccines market.

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