

# **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.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Middle East & Africa Fish Vaccine Market

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. MIDDLE EAST & AFRICA FISH VACCINE MARKET - KEY INDUSTRY DYNAMICS**

- 4.1 Market Drivers:
  - 4.1.1 Government Initiatives to Develop Aquaculture Industry
  - 4.1.2 Surging Demand for Aquatic Animal-Derived Food Products
- 4.2 Market Restraints
  - 4.2.1 Stringent Regulations for Approval of Vaccine
- 4.3 Market Opportunities
  - 4.3.1 Development of Novel Fish Vaccine
- 4.4 Future Trends
  - 4.4.1 Technological Advancements in Fish Vaccine
- 4.5 Impact Analysis:

### **5. FISH VACCINE MARKET - MIDDLE EAST & AFRICA MARKET ANALYSIS**

- 5.1 Fish Vaccine Market Revenue (US\$ Th), 2022 - 2030

### **6. MIDDLE EAST & AFRICA FISH VACCINE MARKET - REVENUE AND FORECAST TO 2030 - BY VACCINE TYPE**

- 6.1 Overview
- 6.2 Fish Vaccine Market Revenue Share, by Vaccine Type, 2022 & 2030 (%)

## 6.3 Inactivated Vaccines

### 6.3.1 Overview

### 6.3.2 Inactivated Vaccines: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 6.4 Live Attenuated Vaccines

### 6.4.1 Overview

### 6.4.2 Live Attenuated Vaccines: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 6.5 Subunit Vaccines

### 6.5.1 Overview

### 6.5.2 Subunit Vaccines: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 6.6 Recombinant Vector Vaccine

### 6.6.1 Overview

### 6.6.2 Recombinant Vector Vaccine: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 6.7 Others

### 6.7.1 Overview

### 6.7.2 Others: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## **7. MIDDLE EAST & AFRICA FISH VACCINE MARKET - REVENUE AND FORECAST TO 2030 - BY APPLICATION**

### 7.1 Overview

### 7.2 Fish Vaccine Market Revenue Share, by Application, 2022 & 2030 (%)

## 7.3 Bacterial Infection

### 7.3.1 Overview

### 7.3.2 Bacterial Infection: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 7.4 Viral Infection

### 7.4.1 Overview

### 7.4.2 Viral Infection: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 7.5 Parasitic

### 7.5.1 Overview

### 7.5.2 Parasitic: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## **8. MIDDLE EAST & AFRICA FISH VACCINE MARKET - REVENUE AND FORECAST TO 2030 - BY ROUTE OF ADMINISTRATION**

## 8.1 Overview

## 8.2 Fish Vaccine Market Revenue Share, by Route of Administration, 2022 & 2030 (%)

## 8.3 Injection vaccine

### 8.3.1 Overview

### 8.3.2 Injection vaccine: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 8.4 Immersion Vaccine

### 8.4.1 Overview

### 8.4.2 Immersion Vaccine: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 8.5 Oral Vaccine

### 8.5.1 Overview

### 8.5.2 Oral Vaccine: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## **9. MIDDLE EAST & AFRICA FISH VACCINE MARKET - REVENUE AND FORECAST TO 2030 - BY SPECIES**

## 9.1 Overview

## 9.2 Fish Vaccine Market Revenue Share, by Species, 2022 & 2030 (%)

## 9.3 Salmon

### 9.3.1 Overview

### 9.3.2 Salmon: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 9.4 Trout

### 9.4.1 Overview

### 9.4.2 Trout: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 9.5 Tilapia

### 9.5.1 Overview

### 9.5.2 Tilapia: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## 9.6 Others

### 9.6.1 Overview

### 9.6.2 Others: Fish Vaccine Market - Revenue and Forecast to 2030 (US\$ Thousand)

## **10. MIDDLE EAST & AFRICA FISH VACCINE MARKET - COUNTRY ANALYSIS**

## 10.1 Middle East & Africa Fish Vaccine Market, Revenue and Forecast to 2030

### 10.1.1 Overview

#### 10.1.1.1 Middle East & Africa Fish Vaccine Market, by Country

#### 10.1.1.2 Saudi Arabia

##### 10.1.1.2.1 Overview

10.1.1.2.2 Saudi Arabia Fish Vaccine Market Revenue and Forecast to 2030 (US\$ Th)

10.1.1.2.3 Saudi Arabia: Fish Vaccine Market, by Vaccine Type, 2020-2030 (US\$ Thousand)

10.1.1.2.4 Saudi Arabia: Fish Vaccine Market, by Route of Administration, 2020-2030 (US\$ Thousand)

10.1.1.2.5 Saudi Arabia: Fish Vaccine Market, by Species, 2020-2030 (US\$ Thousand)

10.1.1.2.6 Saudi Arabia: Fish Vaccine Market, by Application, 2020-2030 (US\$ Thousand)

#### 10.1.1.3 South Africa

##### 10.1.1.3.1 Overview

10.1.1.3.2 South Africa Fish Vaccine Market Revenue and Forecast to 2030 (US\$ Th)

10.1.1.3.3 South Africa: Fish Vaccine Market, by Vaccine Type, 2020-2030 (US\$ Thousand)

10.1.1.3.4 South Africa: Fish Vaccine Market, by Route of Administration, 2020-2030 (US\$ Thousand)

10.1.1.3.5 South Africa: Fish Vaccine Market, by Species, 2020-2030 (US\$ Thousand)

10.1.1.3.6 South Africa: Fish Vaccine Market, by Application, 2020-2030 (US\$ Thousand)

#### 10.1.1.4 UAE

##### 10.1.1.4.1 Overview

10.1.1.4.2 UAE Fish Vaccine Market Revenue and Forecast to 2030 (US\$ Th)

10.1.1.4.3 UAE: Fish Vaccine Market, by Vaccine Type, 2020-2030 (US\$ Thousand)

10.1.1.4.4 UAE: Fish Vaccine Market, by Route of Administration, 2020-2030 (US\$ Thousand)

10.1.1.4.5 UAE: Fish Vaccine Market, by Species, 2020-2030 (US\$ Thousand)

10.1.1.4.6 UAE: Fish Vaccine Market, by Application, 2020-2030 (US\$ Thousand)

#### 10.1.1.5 Rest of Middle East Africa

##### 10.1.1.5.1 Overview

10.1.1.5.2 Rest of Middle East Africa Fish Vaccine Market Revenue and Forecast to 2030 (US\$ Th)

10.1.1.5.3 Rest of Middle East Africa: Fish Vaccine Market, by Vaccine Type, 2020-2030 (US\$ Thousand)

10.1.1.5.4 Rest of Middle East Africa: Fish Vaccine Market, by Route of



Administration, 2020-2030 (US\$ Thousand)

10.1.1.5.5 Rest of Middle East Africa: Fish Vaccine Market, by Species, 2020-2030 (US\$ Thousand)

10.1.1.5.6 Rest of Middle East Africa: Fish Vaccine Market, by Application, 2020-2030 (US\$ Thousand)

## **11. FISH VACCINE MARKET - INDUSTRY LANDSCAPE**

11.1 Overview

11.2 Growth Strategies in Fish Vaccine Market

11.3 Inorganic Growth Strategies

11.3.1 Overview

11.4 Organic Growth Strategies

11.4.1 Overview

## **12. COMPANY PROFILES**

12.1 Zoetis Inc

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Merck & Co Inc

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 HIPRA SA

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

12.3.6 Key Developments

12.4 Phibro Animal Health Corp



- 12.4.1 Key Facts
- 12.4.2 Business Description
- 12.4.3 Products and Services
- 12.4.4 Financial Overview
- 12.4.5 SWOT Analysis
- 12.4.6 Key Developments
- 12.5 Vaxxinova International BV
  - 12.5.1 Key Facts
  - 12.5.2 Business Description
  - 12.5.3 Products and Services
  - 12.5.4 Financial Overview
  - 12.5.5 SWOT Analysis
  - 12.5.6 Key Developments
- 12.6 Elanco Animal Health Inc
  - 12.6.1 Key Facts
  - 12.6.2 Business Description
  - 12.6.3 Products and Services
  - 12.6.4 Financial Overview
  - 12.6.5 SWOT Analysis
  - 12.6.6 Key Developments

## **13. APPENDIX**

- 13.1 About Us
- 13.2 Glossary of Terms

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