

Global Aquaculture Vaccines Market Size study, by Product (Inactivated Vaccines, DNA Vaccines), Route of Administration (Injected, Oral), Application (Bacterial, Viral), and Regional Forecasts 2022-2032

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Abstracts

The Global Aquaculture Vaccines Market is valued at approximately USD 0.41 billion in 2023 and is projected to expand at a compelling compound annual growth rate (CAGR) of 8.40% over the forecast period 2024 to 2032. The aquaculture sector, which plays a pivotal role in securing global food supply and addressing the protein needs of a growing population, is increasingly grappling with the economic impact of infectious diseases in fish. Amidst rising biosecurity challenges, aquaculture vaccines have emerged as a cornerstone solution, offering an effective and sustainable alternative to antibiotics. These vaccines, especially inactivated and DNA-based formulations, are engineered to trigger robust immune responses in aquatic species, drastically reducing mortality rates and improving production efficiency.

Fueled by the imperative to ensure food safety, maintain environmental balance, and uphold global aquaculture standards, the market is witnessing notable traction from both public and private sectors. Governments in key aquaculture-producing nations have launched rigorous health management protocols, promoting widespread vaccination against viral and bacterial pathogens. Meanwhile, leading companies are devoting significant R&D investments toward next-generation vaccines that are not only species-specific but also tailored for multiple modes of administration—including oral and injectable formats—to suit diverse farming systems. This has opened new pathways for delivering immunity in a stress-free, scalable manner.

Innovative breakthroughs in biotechnology have catalyzed the development of advanced DNA vaccines, offering enhanced efficacy and longer-lasting protection

compared to traditional vaccines. These products are gaining increased regulatory approval and commercial adoption, especially in high-value aquaculture operations. Additionally, rising concerns about antimicrobial resistance (AMR) have spurred the adoption of vaccines as a primary preventive strategy, aligning with global One Health initiatives. The intersection of digital aquaculture technologies, such as smart delivery systems and biomarker tracking, with vaccine deployment strategies is expected to further revolutionize this market, making disease prevention more proactive and precision-driven.

However, despite its promising trajectory, the aquaculture vaccines market is not without hurdles. High initial costs of vaccine development, coupled with complex regulatory pathways and variability in cold-chain infrastructure across emerging economies, continue to pose challenges. Moreover, the efficacy of vaccines may vary depending on species, environmental conditions, and farm management practices, necessitating continuous research and field validation. Nonetheless, the increasing integration of diagnostics, farm data analytics, and custom vaccine formulation is poised to mitigate these limitations, fostering confidence among fish farmers and industry stakeholders.

Geographically, North America and Europe currently dominate the aquaculture vaccines landscape, owing to their robust regulatory frameworks, advanced aquaculture practices, and strong presence of industry leaders. Norway, Chile, and Scotland have set benchmarks in fish health management, driving regional vaccine uptake. Meanwhile, the Asia Pacific region—home to the world's largest aquaculture production—is expected to register the fastest growth over the forecast period. Countries such as China, India, and Vietnam are actively investing in modernizing their aquaculture ecosystems, with increased government support for sustainable farming practices and disease control strategies. Latin America and the Middle East & Africa also offer untapped potential, as stakeholders push for improved aquatic health infrastructure and localized vaccine production.

Major market player included in this report are:

PHARMAQ (a Zoetis Company)

Elanco Animal Health Incorporated

Merck Animal Health

HIPRA

Vaxxinova

Virbac

Nisseiken Co., Ltd.

Tecnovax

Phibro Animal Health Corporation

AquaBioTech Group

Barramundi Asia

Ictyogroup

Benchmark Holdings PLC

KBNP, Inc.

Vetoquinol S.A.

The detailed segments and sub-segment of the market are explained below:

By Product

Inactivated Vaccines

DNA Vaccines

By Route of Administration

Injected

Oral

By Application

Bacterial

Viral

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL AQUACULTURE VACCINES MARKET EXECUTIVE SUMMARY

- 1.1. Global Aquaculture Vaccines Market Size & Forecast (2022–2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Product
 - 1.3.2. By Route of Administration
 - 1.3.3. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL AQUACULTURE VACCINES MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Producer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Farmer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AQUACULTURE VACCINES MARKET DYNAMICS

Global Aquaculture Vaccines Market Size study, by Product (Inactivated Vaccines, DNA Vaccines), Route of Admin...

3.1.?Market Drivers

- 3.1.1.?Surging Demand for Sustainable Disease Control in Aquaculture
- 3.1.2.?Government Initiatives and Regulatory Support for Vaccination Programs
- 3.1.3.?Technological Advances in Vaccine Platforms (DNA and Inactivated)

3.2.?Market Challenges

- 3.2.1.?High Development and Cold Chain Logistics Costs
- 3.2.2.?Complex Regulatory Approval Pathways
- 3.2.3.?Variability in Vaccine Efficacy Across Species and Environments

3.3.?Market Opportunities

- 3.3.1.?Expansion into Emerging Aquaculture Regions
- 3.3.2.?Integration of Oral Delivery Systems for Mass Vaccination
- 3.3.3.?Synergies with Digital Monitoring and Precision Farming

CHAPTER 4.?GLOBAL AQUACULTURE VACCINES MARKET INDUSTRY ANALYSIS

4.1.?Porter's Five Forces Model

- 4.1.1.?Bargaining Power of Suppliers
- 4.1.2.?Bargaining Power of Buyers
- 4.1.3.?Threat of New Entrants
- 4.1.4.?Threat of Substitutes
- 4.1.5.?Competitive Rivalry
- 4.1.6.?Futuristic Approach to Porter's Model
- 4.1.7.?Porter's Five Forces Impact Analysis

4.2.?PESTEL Analysis

- 4.2.1.?Political
- 4.2.2.?Economic
- 4.2.3.?Social
- 4.2.4.?Technological
- 4.2.5.?Environmental
- 4.2.6.?Legal

4.3.?Top Investment Opportunities

4.4.?Top Winning Strategies

4.5.?Disruptive Trends

4.6.?Industry Expert Perspective

4.7.?Analyst Recommendation & Conclusion

CHAPTER 5.?GLOBAL AQUACULTURE VACCINES MARKET SIZE & FORECASTS

BY PRODUCT 2022?–?2032

5.1.?Segment Dashboard

5.2.?Global Aquaculture Vaccines Market: Product Revenue Trend Analysis, 2022 & 2032 (USD Million)

5.2.1.?Inactivated Vaccines

5.2.2.?DNA Vaccines

CHAPTER 6.?GLOBAL AQUACULTURE VACCINES MARKET SIZE & FORECASTS BY ROUTE OF ADMINISTRATION 2022?–?2032

6.1.?Segment Dashboard

6.2.?Global Aquaculture Vaccines Market: Route of Administration Revenue Trend Analysis, 2022 & 2032 (USD Million)

6.2.1.?Injected

6.2.2.?Oral

CHAPTER 7.?GLOBAL AQUACULTURE VACCINES MARKET SIZE & FORECASTS BY APPLICATION 2022?–?2032

7.1.?Segment Dashboard

7.2.?Global Aquaculture Vaccines Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

7.2.1.?Bacterial

7.2.2.?Viral

CHAPTER 8.?GLOBAL AQUACULTURE VACCINES MARKET SIZE & FORECASTS BY REGION 2022?–?2032

8.1.?North America Market

8.1.1.?U.S. Market

8.1.1.1.?Product breakdown size & forecasts, 2022?–?2032

8.1.1.2.?Route of Administration breakdown size & forecasts, 2022?–?2032

8.1.2.?Canada Market

8.2.?Europe Market

8.2.1.?UK Market

8.2.2.?Germany Market

8.2.3.?France Market

8.2.4.?Spain Market

- 8.2.5.?Italy Market
- 8.2.6.?Rest of Europe Market
- 8.3.?Asia-Pacific Market
 - 8.3.1.?China Market
 - 8.3.2.?India Market
 - 8.3.3.?Japan Market
 - 8.3.4.?Australia Market
 - 8.3.5.?South Korea Market
 - 8.3.6.?Rest of Asia Pacific Market
- 8.4.?Latin America Market
 - 8.4.1.?Brazil Market
 - 8.4.2.?Mexico Market
 - 8.4.3.?Rest of Latin America Market
- 8.5.?Middle East & Africa Market
 - 8.5.1.?Saudi Arabia Market
 - 8.5.2.?South Africa Market
 - 8.5.3.?Rest of Middle East & Africa Market

CHAPTER 9.?COMPETITIVE INTELLIGENCE

- 9.1.?Key Company SWOT Analysis
 - 9.1.1.?PHARMAQ (a Zoetis Company)
 - 9.1.2.?Elanco Animal Health Incorporated
 - 9.1.3.?Merck Animal Health
- 9.2.?Top Market Strategies
- 9.3.?Company Profiles
 - 9.3.1.?PHARMAQ (a Zoetis Company)
 - 9.3.1.1.?Key Information
 - 9.3.1.2.?Overview
 - 9.3.1.3.?Financial (Subject to Data Availability)
 - 9.3.1.4.?Product Summary
 - 9.3.1.5.?Market Strategies
 - 9.3.2.?Elanco Animal Health Incorporated
 - 9.3.3.?Merck Animal Health
 - 9.3.4.?HIPRA
 - 9.3.5.?Vaxxinova
 - 9.3.6.?Virbac
 - 9.3.7.?Nisseiken Co., Ltd.
 - 9.3.8.?Tecnovax

9.3.9. Phibro Animal Health Corporation

9.3.10. AquaBioTech Group

9.3.11. Barramundi Asia

9.3.12. Ictyogroup

9.3.13. Benchmark Holdings PLC

9.3.14. KBNP, Inc.

9.3.15. Vetoquinol S.A.

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

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