

# **Veterinary Vaccine Adjuvants Market By Type (Alum and Calcium Salts, Oil Emulsion Adjuvants, Liposomes and Archaeosomes, Nanoparticles and Microparticles, Others) , By Route of Administration (Oral, Subcutaneous, Intramuscular, Others) By Type of Animal (Livestock Animals, Companion Animals) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

<https://marketpublishers.com/r/V25FF455781BEN.html>

Date: July 2024

Pages: 280

Price: US\$ 2,655.00 (Single User License)

ID: V25FF455781BEN

## **Abstracts**

### **Veterinary Vaccine Adjuvants Market**

The veterinary vaccine adjuvants market was valued at \$0.4 billion in 2023 and is projected to reach \$0.6 billion by 2033, growing at a CAGR of 4.6% from 2024 to 2033.

A veterinary vaccine adjuvant is an element essential to enhance the immune response of the administered vaccine in animals. An adjuvant is a bioactive compound that upon addition elevates the immune response generated by vaccines. The mechanism of action of adjuvants involves enhancement in the antigen presentation process or modulation of immune pathways through the stimulation of certain receptors. The most common forms of adjuvants included in veterinary vaccines are oil emulsions, aluminum salts, liposomes, bacterial derivatives, and saponins.

Increase in the trend of petkeeping and surge in expenditure on their health are the key drivers of the veterinary vaccine adjuvants market. Moreover, the prevalence of diseases in animals has upsurged over the past few years, thereby boosting the

demand for veterinary vaccine adjuvants. In recent times, the addition of nanoparticle-based adjuvants in vaccines is trending in the market as they offer controlled release and encapsulate the antigens, thus preventing their degradation. Furthermore, microparticle-based and genetic adjuvants are acquiring prominent traction owing to their highly targeted action mechanism.

However, several adjuvants potentially cause severe systemic reactions and local reactogenicity in animals, raising concerns pertaining to their safety and hampering the development of the market. In addition, advancements in vaccine development are eliminating the requirement of adjuvants, without limiting the efficacy of vaccines. Such innovations are anticipated to restrain the development of the market in upcoming years. Despite the innovations in vaccine formation, several gaps exist in the generation of effective immune response, such as pathogen variability and virulent reversion of vaccine strains. These shortcomings present lucrative opportunities for the players in the veterinary vaccine adjuvant market. Further, the implementation of different veterinary vaccination drives by governments, such as the foot and mouth disease vaccination program by the Department of Animal Husbandry & Dairying in India, open new avenues for market expansion.

## Segment Review

The veterinary vaccine adjuvants market is segmented into type, route of administration, type of animal, and region. On the basis of type, the market is divided into alum & calcium salts, oil emulsion adjuvants, liposomes & archaeosomes, nanoparticles & microparticles, and others. By route of administration, it is classified into oral, subcutaneous, intramuscular, and others. As per type of animal, it is bifurcated into livestock animals and companion animals. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of type, the alum & calcium salts segment dominated the market in 2023.

By route of administration, the intramuscular segment accounted for a high market share in 2023.

As per type of animal, the livestock animals segment was the highest shareholder in 2023.

Region wise, North America was the highest revenue generator in 2023.

## Competition Analysis

The leading players operating in the global veterinary vaccine adjuvants market include SEPPIC, SPI Pharma, Inc., Bioveta AS, Croda International PLC, Merck & Co., Inc., MVP Laboratories, OZ Biosciences, InvivoGen Corporation., Evonik Industries AG, and Zoetis, Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Key Market Segments

By Type

Alum and Calcium Salts

Oil Emulsion Adjuvants

Liposomes and Archaeosomes

Nanoparticles and Microparticles

Others

By Route Of Administration

Oral

Subcutaneous

Intramuscular

Others

## By Type Of Animal

Livestock Animals

Companion Animals

## By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

SEPPIC

SPI Pharma, Inc.

Bioveta AS

Croda Internation PLC

Merck & Co., Inc.

MVP Laboratories

OZ Biosciences

InvivoGen Corporation.

Evonik Industries AG

Zoetis, Inc.

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