

# **Vaccine Vial Monitor Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Multi-Dose, Single Dose), By Application (Preventive Vaccine, Therapeutic Vaccine), By Region, By Competition Forecast & Opportunities, 2018-2028F**

<https://marketpublishers.com/r/V3C48B407874EN.html>

Date: October 2023

Pages: 182

Price: US\$ 4,900.00 (Single User License)

ID: V3C48B407874EN

## **Abstracts**

Global Vaccine Vial Monitor Market has valued at USD 205.10 million in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 8.30% through 2028. The Global Vaccine Vial Monitor (VVM) Market refers to the market for devices that help monitor the temperature exposure of vaccines during storage and transportation. Maintaining the correct temperature is crucial for ensuring the efficacy and safety of vaccines. Vaccine Vial Monitors are especially important in regions with challenging infrastructure and unreliable power sources, as they provide a visual indicator of vaccine viability.

### **Key Market Drivers**

#### **Expanding Vaccination Programs**

The global vaccination landscape is undergoing a significant transformation, driven by the pressing need to protect populations from a wide array of diseases. As vaccination programs expand to reach previously underserved regions and new immunization campaigns are launched, the demand for effective vaccine management tools becomes paramount.

Vaccine Vial Monitors (VVMs) are ingenious devices that monitor temperature

exposure, ensuring the efficacy and safety of vaccines during their journey from manufacturers to end-users. As vaccination programs expand to include a wider range of vaccines and target populations, the role of VVMs in maintaining vaccine potency becomes increasingly indispensable.

Expanding vaccination programs often involve reaching remote and underserved regions with challenging infrastructures. In these areas, reliable electricity and refrigeration systems may be lacking. VVMs provide an essential solution by offering a visual indicator of vaccine viability, empowering healthcare workers to make informed decisions about vaccine administration even in resource-constrained environments.

Governments and international health organizations have recognized the vital role of VVMs in vaccine quality assurance. To ensure the safety and efficacy of vaccines, many governments have implemented regulations that mandate the use of VVMs during vaccine storage and transportation. These regulatory mandates create a significant and consistent demand for VVMs, encouraging market growth.

Expanding vaccination programs often require the distribution of vaccines to a broader population. This, in turn, increases the risk of vaccine wastage due to temperature fluctuations or improper handling. VVMs help reduce vaccine wastage by providing a clear visual indication of a vaccine's viability. This not only conserves precious vaccine resources but also supports the economic sustainability of vaccination programs.

Vaccine hesitancy and skepticism can undermine vaccination efforts. VVMs play a vital role in building trust among healthcare workers and the general population. When healthcare workers can easily verify that vaccines have been properly stored and are still effective, vaccine acceptance rates tend to rise. This trust-building aspect of VVMs is especially critical during the rollout of new vaccines or in regions with lower vaccine acceptance rates.

The expansion of vaccination programs often involves collaboration between governments, NGOs, healthcare organizations, and vaccine manufacturers. These collaborations may include initiatives to supply VVMs to underserved regions or to train healthcare workers in their use. Such partnerships further stimulate the growth of the VVM market.

## Technological Advancements

The Global Vaccine Vial Monitor (VVM) Market plays a pivotal role in safeguarding the

potency of vaccines during storage and transportation. Technological advancements in the field of VVMs are revolutionizing the way vaccines are monitored and managed.

One of the key drivers of growth in the VVM market is the enhanced precision and accuracy offered by modern VVM technologies. Earlier versions provided a basic indication of temperature exposure, but today's VVMs offer real-time monitoring capabilities with precise temperature thresholds. This level of accuracy instills confidence in healthcare workers and organizations, ensuring vaccines remain potent.

Technological advancements have led to the development of VVMs that can transmit real-time data through wireless connectivity. This feature allows healthcare workers to remotely monitor vaccine temperatures, providing timely alerts in case of temperature excursions. It enhances the overall efficiency of vaccine management and minimizes the risk of vaccine wastage.

The integration of VVM data into digital healthcare systems has become increasingly prevalent. Modern VVMs can be seamlessly integrated with electronic health records, supply chain management systems, and vaccine distribution networks. This digital integration not only streamlines the vaccine monitoring process but also enhances data analysis and reporting capabilities.

The advent of smart sensors and Internet of Things (IoT) technology has transformed VVMs into intelligent monitoring tools. These sensors can detect a wide range of environmental parameters, including temperature, humidity, light exposure, and shock. IoT-enabled VVMs offer a holistic view of vaccine conditions, ensuring comprehensive protection against all potential threats.

Technological advancements have made VVMs more user-friendly. Many modern devices come with intuitive interfaces, including mobile applications, that allow healthcare workers to easily interpret data and make informed decisions about vaccine viability. This ease of use encourages broader adoption of VVMs in healthcare settings.

## Global Health Concerns

Global health concerns have taken center stage in recent years, driven by the urgency to protect communities worldwide from a myriad of infectious diseases. As vaccination campaigns become instrumental in addressing these health threats, the role of Vaccine Vial Monitors (VVMs) in maintaining vaccine quality is more critical than ever.

The emergence of pandemics and widespread infectious disease outbreaks, such as the COVID-19 pandemic, has heightened global health concerns. In such crises, the rapid distribution of vaccines is essential. VVMs play a pivotal role in ensuring that vaccines maintain their efficacy during transport and storage, even in challenging conditions, which is crucial for effective vaccination campaigns during health emergencies.

Global health concerns have underscored the need for equitable vaccine access. Low- and middle-income countries often face challenges in maintaining a cold chain and ensuring vaccine quality. VVMs provide a cost-effective solution by helping healthcare workers in resource-limited settings monitor and maintain the potency of vaccines, ensuring that underserved populations have access to safe and effective immunization.

Trust in vaccines is paramount to the success of vaccination programs. Global health concerns often lead to vaccine hesitancy, skepticism, or misinformation. VVMs contribute to building and reinforcing trust in vaccines by assuring healthcare workers and the public that vaccines have been handled and stored properly, and are, therefore, safe and effective.

The wastage of vaccines is a concern for healthcare systems worldwide. During global health crises, such as pandemics or mass vaccination campaigns, the risk of vaccine wastage increases due to rapid distribution and potential temperature fluctuations. VVMs help mitigate this risk by providing a clear visual indication of vaccine viability, reducing wastage and optimizing vaccine distribution.

Governments, in response to global health concerns, are investing in vaccine distribution infrastructure and quality assurance measures. Many governments are mandating the use of VVMs in vaccine storage and transportation to ensure vaccine potency. These regulatory initiatives create a stable and growing demand for VVMs in the market.

Global health concerns often attract the attention and support of philanthropic organizations and non-governmental organizations (NGOs). These organizations collaborate with governments and healthcare agencies to provide VVMs to underserved regions and support training programs. This support not only aids in addressing global health issues but also contributes to market growth.

## Increasing Immunization Coverage

The quest to achieve high immunization coverage rates around the world is an ongoing battle against preventable diseases. As vaccination programs extend their reach to previously underserved regions and strive for universal access, the role of Vaccine Vial Monitors (VVMs) becomes increasingly pivotal.

Immunization is one of the most effective public health interventions, preventing countless deaths and disabilities worldwide. To maximize its impact, it is crucial to ensure that vaccines remain potent and effective from production to administration. VVMs provide an essential tool in this endeavor, assuring healthcare workers and the public that vaccines have been handled and stored correctly.

Efforts to increase immunization coverage often involve expanding the target population to include previously overlooked or underserved groups. This expansion may entail reaching remote areas with limited healthcare infrastructure. VVMs are indispensable in such scenarios, as they enable healthcare workers to monitor vaccine quality in challenging environments and assure the communities they serve.

Trust in vaccines is fundamental to achieving high immunization coverage. Concerns about vaccine safety or efficacy can deter people from getting vaccinated. VVMs play a vital role in building trust by providing a visual indicator of vaccine viability. When healthcare workers can demonstrate that vaccines have been stored correctly, it instills confidence in both providers and recipients.

Efforts to increase immunization coverage often result in the distribution of vaccines over larger geographic areas. This expansion increases the risk of vaccine wastage due to temperature fluctuations or improper handling. VVMs help reduce vaccine wastage by providing a clear visual indication of vaccine viability, optimizing resource utilization.

Governments worldwide are committed to expanding immunization coverage to protect their populations from vaccine-preventable diseases. As a part of these efforts, many governments have mandated the use of VVMs in vaccine storage and distribution. These regulatory initiatives not only promote vaccine quality but also foster the growth of the VVM market.

Increasing immunization coverage is a global endeavor that often involves collaborations between governments, international organizations, and non-governmental organizations (NGOs). These collaborations may include initiatives to supply VVMs to underserved regions and to train healthcare workers in their use. This support amplifies the market's growth potential.

## Key Market Challenges

### Affordability

Affordability remains a significant barrier to the widespread adoption of VVMs, particularly in low- and middle-income countries. Some regions may lack the financial resources to invest in these monitoring devices, even though they are crucial for maintaining vaccine quality. Ensuring cost-effective solutions is essential to overcome this challenge.

### Counterfeit and Substandard VVMs

The market has witnessed instances of counterfeit or substandard VVMs entering the supply chain. These fraudulent products not only compromise vaccine quality but also erode trust in the technology. Stringent quality control measures and regulatory oversight are necessary to tackle this issue.

### Technical Infrastructure

In regions with limited technical infrastructure, ensuring the proper installation and maintenance of VVMs can be challenging. Power outages, lack of internet connectivity, and inadequate training may hinder the effective use of VVMs. Simplified, low-tech VVM solutions may be required in these areas.

### Integration into Cold Chain Systems

Effective integration of VVMs into existing cold chain systems is crucial. Some regions may lack the infrastructure and resources to seamlessly incorporate these devices into their vaccine distribution networks. Compatibility and ease of integration must be considered when developing VVM technology.

## Key Market Trends

### Smart Sensors and Internet of Things (IoT)

Smart sensors and IoT technology are set to transform VVMs into intelligent, data-driven tools. These sensors can monitor a range of environmental variables beyond temperature, including humidity, light exposure, and even vaccine handling. IoT-enabled



VVMs will provide real-time data, enhancing vaccine quality monitoring and enabling timely interventions when needed.

### Blockchain Integration

The adoption of blockchain technology in the VVM market is gaining momentum. Blockchain offers secure, transparent, and immutable record-keeping, ensuring the integrity of vaccine data throughout the supply chain. It will enhance traceability and accountability, reducing the risk of counterfeit or substandard VVMs entering the market.

### Mobile Applications and Connectivity

VVMs will become increasingly user-friendly with mobile applications that provide easy access to monitoring data. Healthcare workers will be able to check the status of vaccines on their smartphones, receive alerts, and even connect with centralized databases for real-time reporting. Connectivity will bridge the gap in regions with limited infrastructure.

### Environmental Sustainability

Environmental concerns are driving innovations in sustainable VVM technology. Future VVMs will incorporate eco-friendly materials and design features to minimize their carbon footprint. This aligns with global efforts to reduce the environmental impact of healthcare technologies.

### Segmental Insights

#### Type Insights

Based on the category of Type, multi-dose vials stand out as the dominant category in 2022. Multi-dose vials are generally recognized for their cost-effectiveness compared to single-dose vials, primarily due to their reduced need for packaging materials and storage space. This cost efficiency makes them particularly appealing, especially in the context of large-scale immunization initiatives. When there is a requirement for extensive vaccination efforts, such as responding to a pandemic or conducting routine immunization programs, multi-dose vials offer a means to rapidly and efficiently vaccinate a substantial number of individuals. This is especially pertinent in resource-constrained environments where swift administration is critical.

Multi-dose vials also exhibit advantages in terms of transportation and storage, a particularly significant consideration in areas with limited cold chain infrastructure. Their smaller size and lighter weight compared to an equivalent quantity of single-dose vials make them more manageable within logistical operations. Furthermore, opting for multi-dose vials can contribute to a reduction in medical waste, as fewer vials are necessary to deliver the same number of doses. This aspect aligns well with environmental sustainability goals, making them an attractive choice.

Many healthcare organizations advocate for the controlled use of multi-dose vials as a strategy to broaden the reach of vaccination programs, thus generating increased demand for these products.

### Application Insights

The therapeutic vaccine segment is projected to experience rapid growth during the forecast period. Preventive vaccines are crafted to proactively shield individuals from infectious diseases by triggering the immune system to develop resistance against specific pathogens. These vaccines are designed to tackle a wide spectrum of diseases, encompassing common childhood illnesses like measles, mumps, and rubella, as well as more intricate conditions such as influenza and human papillomavirus. In this context, the role of vaccine vials is pivotal as they are instrumental in maintaining the stability and effectiveness of vaccines, ensuring they are ready for administration when required. Market segmentation related to preventive vaccines takes into account the diverse range of immunization needs and their crucial role in preventing the transmission of contagious diseases. Preventive vaccines play a central role in reducing the burden of infectious diseases and curtailing epidemics. The availability of vaccine vials tailored to specific dosing requirements contributes to precise dosing, efficient distribution, and effective immunization campaigns.

On the other hand, therapeutic vaccines are administered after an individual has already contracted a disease. These vaccines are formulated to modulate the immune response, assisting the body in more effectively combatting the disease. Therapeutic vaccines are developed for conditions like cancer, where the immune system's response is directed towards eliminating cancerous cells. In the therapeutic context, the application of vaccine vials underscores the significance of maintaining the integrity, stability, and precision of dosing to optimize therapeutic effects. While therapeutic vaccines are less common than preventive vaccines, they hold promise in addressing various medical challenges. The use of vaccine vials in this context is essential to



ensure proper storage and administration of these specialized treatments. The ability to deliver therapeutic vaccines accurately and reliably is critical in achieving the desired therapeutic outcomes.

## Regional Insights

North America is poised to assert dominance in the Global Vaccine Vial Monitor Market for several compelling reasons. Firstly, the region boasts a highly developed healthcare infrastructure, including advanced vaccine manufacturing facilities and a robust distribution network. This infrastructure places North America at the forefront of vaccine production and distribution, driving the demand for Vaccine Vial Monitors (VVMs) as a crucial tool in ensuring vaccine potency and integrity. Additionally, stringent regulatory standards in North America underscore the importance of maintaining temperature-sensitive vaccines within the prescribed temperature range, further fueling the adoption of VVMs. Furthermore, the region's proactive approach to vaccination, particularly during public health emergencies such as pandemics, necessitates precise temperature monitoring and control, making VVMs an indispensable component of vaccination programs. These factors, combined with a strong focus on healthcare innovation and a commitment to quality assurance, position North America as the dominant force in the Global Vaccine Vial Monitor Market.

## Key Market Players

Cardinal Health Inc

Catalent Inc

Corning Incorporated

DWK Life Sciences GmbH

Elitech Technology, Inc.

Elpro-Buchs AG

EVIGENCE SENSORS Inc

Gerresheimer AG

Schott AG

Thermo Fisher Scientific Inc

Report Scope:

In this report, the Global Vaccine Vial Monitor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vaccine Vial Monitor Market, By Type:

Multi-Dose

Single Dose

Vaccine Vial Monitor Market, By Application:

Preventive Vaccine

Therapeutic Vaccine

Vaccine Vial Monitor Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

India

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

Vaccine Vial Monitor Market.

Available Customizations:

Global Vaccine Vial Monitor market report with the given market data, Tech Sci 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).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### 4. VOICE OF CUSTOMER

### 5. GLOBAL VACCINE VIAL MONITOR MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Multi-Dose, Single Dose)
  - 5.2.2. By Application (Preventive Vaccine, Therapeutic Vaccine)
  - 5.2.3. By Region

- 5.2.4. By Company (2022)
- 5.3. Product Market Map
  - 5.3.1. By Type
  - 5.3.2. By Application
  - 5.3.3. By Region

## **6. NORTH AMERICA VACCINE VIAL MONITOR MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Type (Multi-Dose, Single Dose)
  - 6.2.2. By Application (Preventive Vaccine, Therapeutic Vaccine)
  - 6.2.3. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Vaccine Vial Monitor Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Type
      - 6.3.1.2.2. By Application
  - 6.3.2. Canada Vaccine Vial Monitor Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Type
      - 6.3.2.2.2. By Application
  - 6.3.3. Mexico Vaccine Vial Monitor Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Type
      - 6.3.3.2.2. By Application

## **7. EUROPE VACCINE VIAL MONITOR MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast



- 7.2.1. By Type (Multi-Dose, Single Dose)
- 7.2.2. By Application (Preventive Vaccine, Therapeutic Vaccine)
- 7.2.3. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Vaccine Vial Monitor Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Type
      - 7.3.1.2.2. By Application
  - 7.3.2. United Kingdom Vaccine Vial Monitor Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Type
      - 7.3.2.2.2. By Application
  - 7.3.3. France Vaccine Vial Monitor Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Type
      - 7.3.3.2.2. By Application
  - 7.3.4. Italy Vaccine Vial Monitor Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Type
      - 7.3.4.2.2. By Application
  - 7.3.5. Spain Vaccine Vial Monitor Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value
    - 7.3.5.2. Market Share & Forecast
      - 7.3.5.2.1. By Type
      - 7.3.5.2.2. By Application

## **8. ASIA-PACIFIC VACCINE VIAL MONITOR MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value

## 8.2. Market Share & Forecast

8.2.1. By Type (Multi-Dose, Single Dose)

8.2.2. By Application (Preventive Vaccine, Therapeutic Vaccine)

8.2.3. By Country

## 8.3. Asia-Pacific: Country Analysis

8.3.1. China Vaccine Vial Monitor Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Type

8.3.1.2.2. By Application

8.3.2. Japan Vaccine Vial Monitor Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Type

8.3.2.2.2. By Application

8.3.3. India Vaccine Vial Monitor Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Type

8.3.3.2.2. By Application

8.3.4. Australia Vaccine Vial Monitor Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Type

8.3.4.2.2. By Application

8.3.5. South Korea Vaccine Vial Monitor Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Type

8.3.5.2.2. By Application

## 9. SOUTH AMERICA VACCINE VIAL MONITOR MARKET OUTLOOK

### 9.1. Market Size & Forecast

- 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Type (Multi-Dose, Single Dose)
  - 9.2.2. By Application (Preventive Vaccine, Therapeutic Vaccine)
  - 9.2.3. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Vaccine Vial Monitor Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
      - 9.3.1.2.2. By Application
  - 9.3.2. Argentina Vaccine Vial Monitor Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By Application
  - 9.3.3. Colombia Vaccine Vial Monitor Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Type
      - 9.3.3.2.2. By Application

## **10. MIDDLE EAST AND AFRICA VACCINE VIAL MONITOR MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Type (Multi-Dose, Single Dose)
  - 10.2.2. By Application (Preventive Vaccine, Therapeutic Vaccine)
  - 10.2.3. By Country
- 10.3. MEA: Country Analysis
  - 10.3.1. South Africa Vaccine Vial Monitor Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Type

- 10.3.1.2.2. By Application
- 10.3.2. Saudi Arabia Vaccine Vial Monitor Market Outlook
  - 10.3.2.1. Market Size & Forecast
    - 10.3.2.1.1. By Value
  - 10.3.2.2. Market Share & Forecast
    - 10.3.2.2.1. By Type
    - 10.3.2.2.2. By Application
- 10.3.3. UAE Vaccine Vial Monitor Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
    - 10.3.3.2.1. By Type
    - 10.3.3.2.2. By Application
- 10.3.4. Kuwait Vaccine Vial Monitor Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
    - 10.3.4.2.1. By Type
    - 10.3.4.2.2. By Application

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Recent Development
- 12.2. Mergers & Acquisitions
- 12.3. Product Launches

## **13. PORTER'S FIVE FORCES ANALYSIS**

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Products

## **14. COMPETITIVE LANDSCAPE**

- 14.1. Business Overview
- 14.2. Product Offerings
- 14.3. Recent Developments
- 14.4. Financials (As Reported)
- 14.5. Key Personnel
- 14.6. SWOT Analysis
  - 14.6.1. Cardinal Health Inc
  - 14.6.2. Catalent Inc
  - 14.6.3. Corning Incorporated
  - 14.6.4. DWK Life Sciences GmbH
  - 14.6.5. Elitech Technology, Inc.
  - 14.6.6. Elpro-Buchs AG
  - 14.6.7. EVIGENCE SENSORS Inc
  - 14.6.8. Gerresheimer AG
  - 14.6.9. Schott AG
  - 14.6.10. Thermo Fisher Scientific Inc

## **15. STRATEGIC RECOMMENDATIONS**

## **16. ABOUT US & DISCLAIMER**

## I would like to order

Product name: Vaccine Vial Monitor Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Multi-Dose, Single Dose), By Application (Preventive Vaccine, Therapeutic Vaccine), By Region, By Competition Forecast & Opportunities, 2018-2028F

Product link: <https://marketpublishers.com/r/V3C48B407874EN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/V3C48B407874EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>



To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970