

# Global Vaccine Delivery Microarray Patches Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Vaccine Delivery Microarray Patches market size was valued at US\$ 36.17 million in 2025 and is forecast to a readjusted size of US\$ 56.62 million by 2032 with a CAGR of 6.6% during review period.

A vaccine delivery microarray patch is a small, skin-applied patch covered with tiny projections arranged in an array that painlessly penetrate the outermost layer of skin to deliver vaccine antigens (sometimes in a dried/stabilized form) into skin tissue rich in immune cells. Instead of injecting into muscle with a needle and syringe, the patch can deliver the vaccine intradermally/epidermally, which may allow simpler administration, reduced needle-stick risks and sharps waste, and potentially improved thermostability and easier distribution depending on the formulation; designs include solid or dissolving microneedles that release the vaccine after brief application and then leave little or no sharp waste. Vaccine delivery microarray patch cost between \$0.85 and \$5.00 per dose/patch.

Vaccine delivery microarray patches are manufactured through a combination of vaccine drug-product and microfabricated device supply chains. Upstream, the process starts with vaccine antigen production (cell culture/fermentation or recombinant expression), followed by purification and formulation with stabilizing excipients (e.g., sugars, polymers, buffers, surfactants, sometimes adjuvants) designed to preserve potency during drying and storage; in parallel, suppliers provide microneedle array materials (dissolving polymers/sugars or solid substrates), precision tooling (micro-molds/etching), medical-grade backings/adhesives/liners, and moisture-barrier packaging components. Midstream manufacturing typically includes forming the

microarray (molding/etching), loading antigen into tips or coating the projections, controlled drying/curing under tight humidity control, patch assembly/lamination (and sometimes an applicator), then stringent QC/QA for dose uniformity, mechanical insertion performance, sterility/bioburden strategy, and stability. Downstream, VMAPs move through a “combination product” distribution model—often emphasizing humidity-protected primary packs and validated shipping—into immunization channels such as national programs, clinics, pharmacies, or outreach campaigns, where the patch is applied for a specified dwell time and then disposed of (with reduced sharps handling for dissolving designs), with training, traceability, and pharmacovigilance integrated similarly to conventional vaccines.

This report is a detailed and comprehensive analysis for global Vaccine Delivery Microarray Patches market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Vaccine Delivery Microarray Patches market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Vaccine Delivery Microarray Patches market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Vaccine Delivery Microarray Patches market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Vaccine Delivery Microarray Patches market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries  
To assess the growth potential for Vaccine Delivery Microarray Patches

To forecast future growth in each product and end-use market  
To assess competitive factors affecting the marketplace

This report profiles key players in the global Vaccine Delivery Microarray Patches market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kindeva, Raphas, CosMED Pharmaceutical, Vaxess Technologies, Micron Biomedical, LTS Lohmann Therapie-Systeme, ArrayPatch, CeraVx, Zhongke Microneedle (Beijing) Technology, Zhuhai Youwe Biotechnology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Vaccine Delivery Microarray Patches market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Dissolving

Non-dissolving

### Market segment by Microneedle Material

Hyaluronic Acid

Taurine

Triple-helical Collagen

PGA?PLA?PP

## Market segment by Application

Medical

Cosmetics

## Major players covered

Kindeva

Raphas

CosMED Pharmaceutical

Vaxess Technologies

Micron Biomedical

LTS Lohmann Therapie-Systeme

ArrayPatch

CeraVx

Zhongke Microneedle (Beijing) Technology

Zhuhai Youwe Biotechnology

Youwei (Zhuhai) Biotechnology

WCC Biomedical

Hisamitsu Pharmaceutical

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Vaccine Delivery Microarray Patches product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vaccine Delivery Microarray Patches, with price, sales quantity, revenue, and global market share of Vaccine Delivery Microarray Patches from 2021 to 2026.

Chapter 3, the Vaccine Delivery Microarray Patches competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vaccine Delivery Microarray Patches breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Vaccine Delivery Microarray Patches market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vaccine Delivery Microarray Patches.

Chapter 14 and 15, to describe Vaccine Delivery Microarray Patches sales channel, distributors, customers, research findings and conclusion.

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