

Global Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery market size was valued at US\$ 22.79 million in 2025 and is forecast to a readjusted size of US\$ 38.17 million by 2032 with a CAGR of 7.6% during review period.

A microarray patch for vaccine delivery is a skin-applied patch covered with a dense array of microscopic projections (microneedles) that deliver vaccine into the upper layers of the skin, where many immune cells are located. Instead of a conventional needle-and-syringe injection, the patch is pressed onto the skin for a short time so the microprojections either dissolve, release a coated vaccine dose, or create microchannels that enable vaccine uptake. The goal is to make vaccination simpler and potentially more acceptable, while enabling easier logistics such as reduced sharps waste and, depending on formulation, improved temperature stability and the possibility of use by minimally trained staff or for self-administration. Vaccine microarray patches cost between \$0.85 and \$5.00 per dose/patch.

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

Global Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery
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 Microarray Patches for Vaccine Delivery 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

Microarray Patches for Vaccine Delivery 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

Market segment by Form of Use

Patches

Direct Topical

Market segment by Application

Routine Childhood Immunization

Adolescent / Pre-adolescent Prevention

Travel / Endemic Exposure / Post-exposure

Respiratory Vaccines with Recurring Demand

Outbreak / Pandemic Preparedness

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 Microarray Patches for Vaccine Delivery product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery.

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

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