

Global Vaccine Microarray Patches (VMAPs) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vaccine Microarray Patches (VMAPs) market size is expected to reach \$ 234 million by 2032, rising at a market growth of 30.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of Vaccine Microarray Patches (VMAPs) reached approximately 16 million pcs, with an average market price of about USD 2.30 pc, an annual production capacity of roughly 2.15 million pcs, and an industry-average gross margin of approximately 40%.

Vaccine Microarray Patches (VMAPs) are integrated vaccine dosage forms and delivery systems comprising arrays of microscopic projections, needles or cone-shaped structures mounted on a patch substrate and designed to place vaccine antigens, adjuvants, nucleic-acid constructs or other immunologically active components into the epidermal or superficial dermal layers of the skin. Vaccine loading may be achieved through dry coating, incorporation into dissolvable or biodegradable polymers, detachable tips, reservoir-assisted delivery or other precision formulation and deposition techniques. A complete VMAP product may include the microarray, vaccine formulation, adhesive or backing layer, protective packaging and a manual or spring-assisted single-use applicator. Its critical manufacturing and performance attributes include projection geometry, mechanical strength, vaccine loading uniformity, insertion reliability, dissolution or release time, antigen stability, sterility, residual dose, application feedback and compatibility with scalable production. VMAPs are intended to provide rapid and reproducible cutaneous vaccination while reducing dependence on conventional needles and syringes, sharps disposal and highly trained vaccinators. Their principal prospective uses include routine childhood immunisation, supplementary immunisation campaigns, seasonal adult vaccination, outbreak response, pandemic preparedness

and delivery in settings where cold-chain capacity, healthcare personnel or access to fixed vaccination sites is constrained.

Vaccine Microarray Patches (VMAPs) should be viewed as integrated vaccine-device combination products rather than as a simple extension of conventional transdermal patches or cosmetic microneedles. The relevant industry boundary includes vaccine-loaded arrays, formulation and loading processes, application devices, clinical or pilot manufacturing and directly associated contract development and manufacturing services. It does not extend to ordinary intradermal syringes, needle-free jet injectors, unmedicated microneedle devices or vaccine antigen suppliers that have no responsibility for the patch itself. The most advanced public-health use case remains measles-rubella vaccination. WHO pipeline assessments identify Micron Biomedical and Vaxxas as the two principal MR-MAP developers with human clinical programmes, while QuadMedicine has advanced a hepatitis B microneedle vaccine into human investigation and a broader group of companies is working on influenza, rotavirus, COVID-19, nucleic-acid and multivalent vaccine candidates. Consequently, the 2025 and 2026 market cannot be interpreted as a conventional commercial vaccine market measured by approved doses sold. Current economic activity is largely composed of sponsored development programmes, clinical-patch supply, formulation work, technology licensing, engineering batches and manufacturing scale-up. Under a strict approved-product sales definition, the market remains effectively pre-commercial; under the adopted industry-economic-activity definition, it is measurable but still small and highly dependent on project timing.

Demand is likely to emerge first where the operational burden of needle-and-syringe vaccination is greatest. Measles-rubella campaigns, hepatitis B birth-dose delivery, seasonal influenza, outbreak response and immunisation in remote or resource-constrained settings offer clearer early value propositions than immediate replacement of all routine injections. The commercial case will depend on more than immunogenicity. Procurers and regulators will evaluate total delivered cost, residual vaccine dose, application success, thermostability, packaging density, waste handling, user training and the ability to manufacture hundreds of millions of consistent units. From a technology perspective, solid-coated high-density arrays can provide very rapid delivery but require precise coating and reproducible application forces; dissolving patches eliminate residual sharps but face formulation, moisture and payload constraints; detachable-tip and programmed-release designs may enable prime-boost delivery from a single application but add manufacturing and regulatory complexity. The market's medium-term growth therefore depends on regulatory de-risking and manufacturing performance rather than on scientific novelty alone. Gavi planning assumptions place

initial MR-MAP licensure and WHO prequalification around 2030, making the second half of the forecast period the likely point at which commercial procurement could begin to contribute meaningfully. Before that transition, investment will remain concentrated in clinical validation, dedicated facilities, quality systems, applicator design and partnerships between vaccine owners and MAP manufacturers.

This report studies the global Vaccine Microarray Patches (VMAPs) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vaccine Microarray Patches (VMAPs) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vaccine Microarray Patches (VMAPs) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vaccine Microarray Patches (VMAPs) total production and demand, 2021-2032, (K Pcs)

Global Vaccine Microarray Patches (VMAPs) total production value, 2021-2032, (USD Million)

Global Vaccine Microarray Patches (VMAPs) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Vaccine Microarray Patches (VMAPs) consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Vaccine Microarray Patches (VMAPs) domestic production, consumption, key domestic manufacturers and share

Global Vaccine Microarray Patches (VMAPs) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Vaccine Microarray Patches (VMAPs) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Vaccine Microarray Patches (VMAPs) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Vaccine Microarray Patches (VMAPs) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vaxxas Pty Ltd, Micron Biomedical,

Inc., QuadMedicine, Inc., Inventprise, LLC, Kindeva Drug Delivery, LTS Lohmann Therapie-Systeme AG, RAPHAS Co., Ltd., WCC BIOMEDICAL CO., LTD., Gylden Pharma Limited, Shenzhen BioQingLam Biotechnology Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vaccine Microarray Patches (VMAPs) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Vaccine Microarray Patches (VMAPs) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vaccine Microarray Patches (VMAPs) Market, Segmentation by Type:

Dissolving

Non-dissolving

Global Vaccine Microarray Patches (VMAPs) Market, Segmentation by Microneedle Material:

Hyaluronic Acid

Taurine

Triple-helical Collagen

Global Vaccine Microarray Patches (VMAPs) Market, Segmentation by Form of Use:

Patches

Direct Topical

Global Vaccine Microarray Patches (VMAPs) Market, Segmentation by Application:

Routine Childhood Immunization

Adolescent / Pre-adolescent Prevention

Travel / Endemic Exposure / Post-exposure

Respiratory Vaccines with Recurring Demand

Outbreak / Pandemic Preparedness

Companies Profiled:

Vaxxas Pty Ltd

Micron Biomedical, Inc.

QuadMedicine, Inc.

Inventprise, LLC

Kindeva Drug Delivery

LTS Lohmann Therapie-Systeme AG

RAPHAS Co., Ltd.

WCC BIOMEDICAL CO., LTD.

Gylden Pharma Limited

Shenzhen BioQingLam Biotechnology Co., Ltd.

CeraVx B.V.

Verndari, Inc.

MEDRx Co., Ltd.

Advaccine Biopharmaceuticals Suzhou Co., Ltd.

Youwe (Zhuhai) Biotechnology Co., Ltd.

CosMED Pharmaceutical Co., Ltd.

SingleTimeMicroneedles, Inc.

Key Questions Answered:

1. How big is the global Vaccine Microarray Patches (VMAPs) market?
2. What is the demand of the global Vaccine Microarray Patches (VMAPs) market?
3. What is the year over year growth of the global Vaccine Microarray Patches (VMAPs) market?
4. What is the production and production value of the global Vaccine Microarray

Patches (VMAPs) market?

5. Who are the key producers in the global Vaccine Microarray Patches (VMAPs) market?

6. What are the growth factors driving the market demand?

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