

# Global Microarray Patches for Vaccine Delivery Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery 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%.

Microarray Patches for Vaccine Deliverys 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.

Microarray Patches for Vaccine Deliverys 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 Microarray Patches for Vaccine Delivery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

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

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

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

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

U.S. VS China: Microarray Patches for Vaccine Delivery domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microarray Patches for Vaccine Delivery Market, Segmentation by Type:

Dissolving

Non-dissolving

Global Microarray Patches for Vaccine Delivery Market, Segmentation by Microneedle Material:

Hyaluronic Acid

Taurine

Triple-helical Collagen

Global Microarray Patches for Vaccine Delivery Market, Segmentation by Form of Use:

Patches

Direct Topical

Global Microarray Patches for Vaccine Delivery 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 Microarray Patches for Vaccine Delivery market?
2. What is the demand of the global Microarray Patches for Vaccine Delivery market?
3. What is the year over year growth of the global Microarray Patches for Vaccine Delivery market?
4. What is the production and production value of the global Microarray Patches for

Vaccine Delivery market?

5. Who are the key producers in the global Microarray Patches for Vaccine Delivery market?

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Microarray Patches for Vaccine Delivery Introduction
- 1.2 World Microarray Patches for Vaccine Delivery Supply & Forecast
  - 1.2.1 World Microarray Patches for Vaccine Delivery Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Microarray Patches for Vaccine Delivery Production (2021-2032)
  - 1.2.3 World Microarray Patches for Vaccine Delivery Pricing Trends (2021-2032)
- 1.3 World Microarray Patches for Vaccine Delivery Production by Region (Based on Production Site)
  - 1.3.1 World Microarray Patches for Vaccine Delivery Production Value by Region (2021-2032)
  - 1.3.2 World Microarray Patches for Vaccine Delivery Production by Region (2021-2032)
  - 1.3.3 World Microarray Patches for Vaccine Delivery Average Price by Region (2021-2032)
  - 1.3.4 North America Microarray Patches for Vaccine Delivery Production (2021-2032)
  - 1.3.5 Europe Microarray Patches for Vaccine Delivery Production (2021-2032)
  - 1.3.6 China Microarray Patches for Vaccine Delivery Production (2021-2032)
  - 1.3.7 Japan Microarray Patches for Vaccine Delivery Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Microarray Patches for Vaccine Delivery Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Microarray Patches for Vaccine Delivery Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Microarray Patches for Vaccine Delivery Demand (2021-2032)
- 2.2 World Microarray Patches for Vaccine Delivery Consumption by Region
  - 2.2.1 World Microarray Patches for Vaccine Delivery Consumption by Region (2021-2026)
  - 2.2.2 World Microarray Patches for Vaccine Delivery Consumption Forecast by Region (2027-2032)
- 2.3 United States Microarray Patches for Vaccine Delivery Consumption (2021-2032)
- 2.4 China Microarray Patches for Vaccine Delivery Consumption (2021-2032)
- 2.5 Europe Microarray Patches for Vaccine Delivery Consumption (2021-2032)
- 2.6 Japan Microarray Patches for Vaccine Delivery Consumption (2021-2032)

- 2.7 South Korea Microarray Patches for Vaccine Delivery Consumption (2021-2032)
- 2.8 ASEAN Microarray Patches for Vaccine Delivery Consumption (2021-2032)
- 2.9 India Microarray Patches for Vaccine Delivery Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Microarray Patches for Vaccine Delivery Production Value by Manufacturer (2021-2026)
- 3.2 World Microarray Patches for Vaccine Delivery Production by Manufacturer (2021-2026)
- 3.3 World Microarray Patches for Vaccine Delivery Average Price by Manufacturer (2021-2026)
- 3.4 Microarray Patches for Vaccine Delivery Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Microarray Patches for Vaccine Delivery Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Microarray Patches for Vaccine Delivery in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Microarray Patches for Vaccine Delivery in 2025
- 3.6 Microarray Patches for Vaccine Delivery Market: Overall Company Footprint Analysis
  - 3.6.1 Microarray Patches for Vaccine Delivery Market: Region Footprint
  - 3.6.2 Microarray Patches for Vaccine Delivery Market: Company Product Type Footprint
  - 3.6.3 Microarray Patches for Vaccine Delivery Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Microarray Patches for Vaccine Delivery Production Value Comparison
  - 4.1.1 United States VS China: Microarray Patches for Vaccine Delivery Production

## Value Comparison (2021 & 2025 & 2032)

### 4.1.2 United States VS China: Microarray Patches for Vaccine Delivery Production

## Value Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States VS China: Microarray Patches for Vaccine Delivery Production Comparison

#### 4.2.1 United States VS China: Microarray Patches for Vaccine Delivery Production Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: Microarray Patches for Vaccine Delivery Production Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States VS China: Microarray Patches for Vaccine Delivery Consumption Comparison

#### 4.3.1 United States VS China: Microarray Patches for Vaccine Delivery Consumption Comparison (2021 & 2025 & 2032)

#### 4.3.2 United States VS China: Microarray Patches for Vaccine Delivery Consumption Market Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Microarray Patches for Vaccine Delivery Manufacturers and Market Share, 2021-2026

#### 4.4.1 United States Based Microarray Patches for Vaccine Delivery Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Microarray Patches for Vaccine Delivery Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers Microarray Patches for Vaccine Delivery Production (2021-2026)

### 4.5 China Based Microarray Patches for Vaccine Delivery Manufacturers and Market Share

#### 4.5.1 China Based Microarray Patches for Vaccine Delivery Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers Microarray Patches for Vaccine Delivery Production Value (2021-2026)

#### 4.5.3 China Based Manufacturers Microarray Patches for Vaccine Delivery Production (2021-2026)

### 4.6 Rest of World Based Microarray Patches for Vaccine Delivery Manufacturers and Market Share, 2021-2026

#### 4.6.1 Rest of World Based Microarray Patches for Vaccine Delivery Manufacturers, Headquarters and Production Site (State, Country)

#### 4.6.2 Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Microarray Patches for Vaccine Delivery Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Dissolving

5.2.2 Non-dissolving

5.3 Market Segment by Type

5.3.1 World Microarray Patches for Vaccine Delivery Production by Type (2021-2032)

5.3.2 World Microarray Patches for Vaccine Delivery Production Value by Type (2021-2032)

5.3.3 World Microarray Patches for Vaccine Delivery Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY MICRONEEDLE MATERIAL**

6.1 World Microarray Patches for Vaccine Delivery Market Size Overview by Microneedle Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Microneedle Material

6.2.1 Hyaluronic Acid

6.2.2 Taurine

6.2.3 Triple-helical Collagen

6.3 Market Segment by Microneedle Material

6.3.1 World Microarray Patches for Vaccine Delivery Production by Microneedle Material (2021-2032)

6.3.2 World Microarray Patches for Vaccine Delivery Production Value by Microneedle Material (2021-2032)

6.3.3 World Microarray Patches for Vaccine Delivery Average Price by Microneedle Material (2021-2032)

## **7 MARKET ANALYSIS BY FORM OF USE**

7.1 World Microarray Patches for Vaccine Delivery Market Size Overview by Form of Use: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Form of Use

7.2.1 Patches

7.2.2 Direct Topical

7.3 Market Segment by Form of Use

7.3.1 World Microarray Patches for Vaccine Delivery Production by Form of Use (2021-2032)

7.3.2 World Microarray Patches for Vaccine Delivery Production Value by Form of Use (2021-2032)

7.3.3 World Microarray Patches for Vaccine Delivery Average Price by Form of Use (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Microarray Patches for Vaccine Delivery Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Routine Childhood Immunization

8.2.2 Adolescent / Pre-adolescent Prevention

8.2.3 Travel / Endemic Exposure / Post-exposure

8.2.4 Respiratory Vaccines with Recurring Demand

8.2.5 Outbreak / Pandemic Preparedness

8.3 Market Segment by Application

8.3.1 World Microarray Patches for Vaccine Delivery Production by Application (2021-2032)

8.3.2 World Microarray Patches for Vaccine Delivery Production Value by Application (2021-2032)

8.3.3 World Microarray Patches for Vaccine Delivery Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Vaxxas Pty Ltd

9.1.1 Vaxxas Pty Ltd Details

9.1.2 Vaxxas Pty Ltd Major Business

9.1.3 Vaxxas Pty Ltd Microarray Patches for Vaccine Delivery Product and Services

9.1.4 Vaxxas Pty Ltd Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Vaxxas Pty Ltd Recent Developments/Updates

9.1.6 Vaxxas Pty Ltd Competitive Strengths & Weaknesses

9.2 Micron Biomedical, Inc.

9.2.1 Micron Biomedical, Inc. Details

9.2.2 Micron Biomedical, Inc. Major Business

9.2.3 Micron Biomedical, Inc. Microarray Patches for Vaccine Delivery Product and

## Services

9.2.4 Micron Biomedical, Inc. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Micron Biomedical, Inc. Recent Developments/Updates

9.2.6 Micron Biomedical, Inc. Competitive Strengths & Weaknesses

## 9.3 QuadMedicine, Inc.

9.3.1 QuadMedicine, Inc. Details

9.3.2 QuadMedicine, Inc. Major Business

9.3.3 QuadMedicine, Inc. Microarray Patches for Vaccine Delivery Product and Services

9.3.4 QuadMedicine, Inc. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 QuadMedicine, Inc. Recent Developments/Updates

9.3.6 QuadMedicine, Inc. Competitive Strengths & Weaknesses

## 9.4 Inventprise, LLC

9.4.1 Inventprise, LLC Details

9.4.2 Inventprise, LLC Major Business

9.4.3 Inventprise, LLC Microarray Patches for Vaccine Delivery Product and Services

9.4.4 Inventprise, LLC Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Inventprise, LLC Recent Developments/Updates

9.4.6 Inventprise, LLC Competitive Strengths & Weaknesses

## 9.5 Kindeva Drug Delivery

9.5.1 Kindeva Drug Delivery Details

9.5.2 Kindeva Drug Delivery Major Business

9.5.3 Kindeva Drug Delivery Microarray Patches for Vaccine Delivery Product and Services

9.5.4 Kindeva Drug Delivery Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Kindeva Drug Delivery Recent Developments/Updates

9.5.6 Kindeva Drug Delivery Competitive Strengths & Weaknesses

## 9.6 LTS Lohmann Therapie-Systeme AG

9.6.1 LTS Lohmann Therapie-Systeme AG Details

9.6.2 LTS Lohmann Therapie-Systeme AG Major Business

9.6.3 LTS Lohmann Therapie-Systeme AG Microarray Patches for Vaccine Delivery Product and Services

9.6.4 LTS Lohmann Therapie-Systeme AG Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 LTS Lohmann Therapie-Systeme AG Recent Developments/Updates

- 9.6.6 LTS Lohmann Therapie-Systeme AG Competitive Strengths & Weaknesses
- 9.7 RAPHAS Co., Ltd.
  - 9.7.1 RAPHAS Co., Ltd. Details
  - 9.7.2 RAPHAS Co., Ltd. Major Business
  - 9.7.3 RAPHAS Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services
  - 9.7.4 RAPHAS Co., Ltd. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 RAPHAS Co., Ltd. Recent Developments/Updates
  - 9.7.6 RAPHAS Co., Ltd. Competitive Strengths & Weaknesses
- 9.8 WCC BIOMEDICAL CO., LTD.
  - 9.8.1 WCC BIOMEDICAL CO., LTD. Details
  - 9.8.2 WCC BIOMEDICAL CO., LTD. Major Business
  - 9.8.3 WCC BIOMEDICAL CO., LTD. Microarray Patches for Vaccine Delivery Product and Services
  - 9.8.4 WCC BIOMEDICAL CO., LTD. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 WCC BIOMEDICAL CO., LTD. Recent Developments/Updates
  - 9.8.6 WCC BIOMEDICAL CO., LTD. Competitive Strengths & Weaknesses
- 9.9 Gylden Pharma Limited
  - 9.9.1 Gylden Pharma Limited Details
  - 9.9.2 Gylden Pharma Limited Major Business
  - 9.9.3 Gylden Pharma Limited Microarray Patches for Vaccine Delivery Product and Services
  - 9.9.4 Gylden Pharma Limited Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Gylden Pharma Limited Recent Developments/Updates
  - 9.9.6 Gylden Pharma Limited Competitive Strengths & Weaknesses
- 9.10 Shenzhen BioQingLam Biotechnology Co., Ltd.
  - 9.10.1 Shenzhen BioQingLam Biotechnology Co., Ltd. Details
  - 9.10.2 Shenzhen BioQingLam Biotechnology Co., Ltd. Major Business
  - 9.10.3 Shenzhen BioQingLam Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services
  - 9.10.4 Shenzhen BioQingLam Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Shenzhen BioQingLam Biotechnology Co., Ltd. Recent Developments/Updates
  - 9.10.6 Shenzhen BioQingLam Biotechnology Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 CeraVx B.V.

- 9.11.1 CeraVx B.V. Details
- 9.11.2 CeraVx B.V. Major Business
- 9.11.3 CeraVx B.V. Microarray Patches for Vaccine Delivery Product and Services
- 9.11.4 CeraVx B.V. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 CeraVx B.V. Recent Developments/Updates
- 9.11.6 CeraVx B.V. Competitive Strengths & Weaknesses
- 9.12 Verndari, Inc.
  - 9.12.1 Verndari, Inc. Details
  - 9.12.2 Verndari, Inc. Major Business
  - 9.12.3 Verndari, Inc. Microarray Patches for Vaccine Delivery Product and Services
  - 9.12.4 Verndari, Inc. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Verndari, Inc. Recent Developments/Updates
  - 9.12.6 Verndari, Inc. Competitive Strengths & Weaknesses
- 9.13 MEDRx Co., Ltd.
  - 9.13.1 MEDRx Co., Ltd. Details
  - 9.13.2 MEDRx Co., Ltd. Major Business
  - 9.13.3 MEDRx Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services
  - 9.13.4 MEDRx Co., Ltd. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 MEDRx Co., Ltd. Recent Developments/Updates
  - 9.13.6 MEDRx Co., Ltd. Competitive Strengths & Weaknesses
- 9.14 Advaccine Biopharmaceuticals Suzhou Co., Ltd.
  - 9.14.1 Advaccine Biopharmaceuticals Suzhou Co., Ltd. Details
  - 9.14.2 Advaccine Biopharmaceuticals Suzhou Co., Ltd. Major Business
  - 9.14.3 Advaccine Biopharmaceuticals Suzhou Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services
  - 9.14.4 Advaccine Biopharmaceuticals Suzhou Co., Ltd. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Advaccine Biopharmaceuticals Suzhou Co., Ltd. Recent Developments/Updates
  - 9.14.6 Advaccine Biopharmaceuticals Suzhou Co., Ltd. Competitive Strengths & Weaknesses
- 9.15 Youwe (Zhuhai) Biotechnology Co., Ltd.
  - 9.15.1 Youwe (Zhuhai) Biotechnology Co., Ltd. Details
  - 9.15.2 Youwe (Zhuhai) Biotechnology Co., Ltd. Major Business
  - 9.15.3 Youwe (Zhuhai) Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services

9.15.4 Youwe (Zhuhai) Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Youwe (Zhuhai) Biotechnology Co., Ltd. Recent Developments/Updates

9.15.6 Youwe (Zhuhai) Biotechnology Co., Ltd. Competitive Strengths & Weaknesses

9.16 CosMED Pharmaceutical Co., Ltd.

9.16.1 CosMED Pharmaceutical Co., Ltd. Details

9.16.2 CosMED Pharmaceutical Co., Ltd. Major Business

9.16.3 CosMED Pharmaceutical Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services

9.16.4 CosMED Pharmaceutical Co., Ltd. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 CosMED Pharmaceutical Co., Ltd. Recent Developments/Updates

9.16.6 CosMED Pharmaceutical Co., Ltd. Competitive Strengths & Weaknesses

9.17 SingleTimeMicroneedles, Inc.

9.17.1 SingleTimeMicroneedles, Inc. Details

9.17.2 SingleTimeMicroneedles, Inc. Major Business

9.17.3 SingleTimeMicroneedles, Inc. Microarray Patches for Vaccine Delivery Product and Services

9.17.4 SingleTimeMicroneedles, Inc. Microarray Patches for Vaccine Delivery Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 SingleTimeMicroneedles, Inc. Recent Developments/Updates

9.17.6 SingleTimeMicroneedles, Inc. Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Microarray Patches for Vaccine Delivery Industry Chain

10.2 Microarray Patches for Vaccine Delivery Upstream Analysis

10.2.1 Microarray Patches for Vaccine Delivery Core Raw Materials

10.2.2 Main Manufacturers of Microarray Patches for Vaccine Delivery Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Microarray Patches for Vaccine Delivery Production Mode

10.6 Microarray Patches for Vaccine Delivery Procurement Model

10.7 Microarray Patches for Vaccine Delivery Industry Sales Model and Sales Channels

10.7.1 Microarray Patches for Vaccine Delivery Sales Model

10.7.2 Microarray Patches for Vaccine Delivery Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Microarray Patches for Vaccine Delivery Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Microarray Patches for Vaccine Delivery Production Value by Region (2021-2026) & (USD Million)

Table 3. World Microarray Patches for Vaccine Delivery Production Value by Region (2027-2032) & (USD Million)

Table 4. World Microarray Patches for Vaccine Delivery Production Value Market Share by Region (2021-2026)

Table 5. World Microarray Patches for Vaccine Delivery Production Value Market Share by Region (2027-2032)

Table 6. World Microarray Patches for Vaccine Delivery Production by Region (2021-2026) & (K Pcs)

Table 7. World Microarray Patches for Vaccine Delivery Production by Region (2027-2032) & (K Pcs)

Table 8. World Microarray Patches for Vaccine Delivery Production Market Share by Region (2021-2026)

Table 9. World Microarray Patches for Vaccine Delivery Production Market Share by Region (2027-2032)

Table 10. World Microarray Patches for Vaccine Delivery Average Price by Region (2021-2026) & (US\$/Pc)

Table 11. World Microarray Patches for Vaccine Delivery Average Price by Region (2027-2032) & (US\$/Pc)

Table 12. Microarray Patches for Vaccine Delivery Major Market Trends

Table 13. World Microarray Patches for Vaccine Delivery Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Microarray Patches for Vaccine Delivery Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Microarray Patches for Vaccine Delivery Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Microarray Patches for Vaccine Delivery Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Microarray Patches for Vaccine Delivery Producers in 2025

Table 18. World Microarray Patches for Vaccine Delivery Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Microarray Patches for Vaccine Delivery Producers in 2025

Table 20. World Microarray Patches for Vaccine Delivery Average Price by Manufacturer (2021-2026) & (US\$/Pc)

Table 21. Global Microarray Patches for Vaccine Delivery Company Evaluation Quadrant

Table 22. World Microarray Patches for Vaccine Delivery Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Microarray Patches for Vaccine Delivery Production Site of Key Manufacturer

Table 24. Microarray Patches for Vaccine Delivery Market: Company Product Type Footprint

Table 25. Microarray Patches for Vaccine Delivery Market: Company Product Application Footprint

Table 26. Microarray Patches for Vaccine Delivery Competitive Factors

Table 27. Microarray Patches for Vaccine Delivery New Entrant and Capacity Expansion Plans

Table 28. Microarray Patches for Vaccine Delivery Mergers & Acquisitions Activity

Table 29. United States VS China Microarray Patches for Vaccine Delivery Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Microarray Patches for Vaccine Delivery Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Microarray Patches for Vaccine Delivery Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Microarray Patches for Vaccine Delivery Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Microarray Patches for Vaccine Delivery Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Microarray Patches for Vaccine Delivery Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Microarray Patches for Vaccine Delivery Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Microarray Patches for Vaccine Delivery Production Market Share (2021-2026)

Table 37. China Based Microarray Patches for Vaccine Delivery Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Microarray Patches for Vaccine Delivery Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Microarray Patches for Vaccine Delivery

## Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Microarray Patches for Vaccine Delivery Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Microarray Patches for Vaccine Delivery Production Market Share (2021-2026)

Table 42. Rest of World Based Microarray Patches for Vaccine Delivery Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production Market Share (2021-2026)

Table 47. World Microarray Patches for Vaccine Delivery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Microarray Patches for Vaccine Delivery Production by Type (2021-2026) & (K Pcs)

Table 49. World Microarray Patches for Vaccine Delivery Production by Type (2027-2032) & (K Pcs)

Table 50. World Microarray Patches for Vaccine Delivery Production Value by Type (2021-2026) & (USD Million)

Table 51. World Microarray Patches for Vaccine Delivery Production Value by Type (2027-2032) & (USD Million)

Table 52. World Microarray Patches for Vaccine Delivery Average Price by Type (2021-2026) & (US\$/Pc)

Table 53. World Microarray Patches for Vaccine Delivery Average Price by Type (2027-2032) & (US\$/Pc)

Table 54. World Microarray Patches for Vaccine Delivery Production Value by Microneedle Material, (USD Million), 2021 & 2025 & 2032

Table 55. World Microarray Patches for Vaccine Delivery Production by Microneedle Material (2021-2026) & (K Pcs)

Table 56. World Microarray Patches for Vaccine Delivery Production by Microneedle Material (2027-2032) & (K Pcs)

Table 57. World Microarray Patches for Vaccine Delivery Production Value by Microneedle Material (2021-2026) & (USD Million)

Table 58. World Microarray Patches for Vaccine Delivery Production Value by Microneedle Material (2027-2032) & (USD Million)

Table 59. World Microarray Patches for Vaccine Delivery Average Price by Microneedle Material (2021-2026) & (US\$/Pc)

Table 60. World Microarray Patches for Vaccine Delivery Average Price by Microneedle Material (2027-2032) & (US\$/Pc)

Table 61. World Microarray Patches for Vaccine Delivery Production Value by Form of Use, (USD Million), 2021 & 2025 & 2032

Table 62. World Microarray Patches for Vaccine Delivery Production by Form of Use (2021-2026) & (K Pcs)

Table 63. World Microarray Patches for Vaccine Delivery Production by Form of Use (2027-2032) & (K Pcs)

Table 64. World Microarray Patches for Vaccine Delivery Production Value by Form of Use (2021-2026) & (USD Million)

Table 65. World Microarray Patches for Vaccine Delivery Production Value by Form of Use (2027-2032) & (USD Million)

Table 66. World Microarray Patches for Vaccine Delivery Average Price by Form of Use (2021-2026) & (US\$/Pc)

Table 67. World Microarray Patches for Vaccine Delivery Average Price by Form of Use (2027-2032) & (US\$/Pc)

Table 68. World Microarray Patches for Vaccine Delivery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Microarray Patches for Vaccine Delivery Production by Application (2021-2026) & (K Pcs)

Table 70. World Microarray Patches for Vaccine Delivery Production by Application (2027-2032) & (K Pcs)

Table 71. World Microarray Patches for Vaccine Delivery Production Value by Application (2021-2026) & (USD Million)

Table 72. World Microarray Patches for Vaccine Delivery Production Value by Application (2027-2032) & (USD Million)

Table 73. World Microarray Patches for Vaccine Delivery Average Price by Application (2021-2026) & (US\$/Pc)

Table 74. World Microarray Patches for Vaccine Delivery Average Price by Application (2027-2032) & (US\$/Pc)

Table 75. Vaxxas Pty Ltd Basic Information, Manufacturing Base and Competitors

Table 76. Vaxxas Pty Ltd Major Business

Table 77. Vaxxas Pty Ltd Microarray Patches for Vaccine Delivery Product and Services

Table 78. Vaxxas Pty Ltd Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Vaxxas Pty Ltd Recent Developments/Updates

Table 80. Vaxxas Pty Ltd Competitive Strengths & Weaknesses

Table 81. Micron Biomedical, Inc. Basic Information, Manufacturing Base and Competitors

Table 82. Micron Biomedical, Inc. Major Business

Table 83. Micron Biomedical, Inc. Microarray Patches for Vaccine Delivery Product and Services

Table 84. Micron Biomedical, Inc. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Micron Biomedical, Inc. Recent Developments/Updates

Table 86. Micron Biomedical, Inc. Competitive Strengths & Weaknesses

Table 87. QuadMedicine, Inc. Basic Information, Manufacturing Base and Competitors

Table 88. QuadMedicine, Inc. Major Business

Table 89. QuadMedicine, Inc. Microarray Patches for Vaccine Delivery Product and Services

Table 90. QuadMedicine, Inc. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. QuadMedicine, Inc. Recent Developments/Updates

Table 92. QuadMedicine, Inc. Competitive Strengths & Weaknesses

Table 93. Inventprise, LLC Basic Information, Manufacturing Base and Competitors

Table 94. Inventprise, LLC Major Business

Table 95. Inventprise, LLC Microarray Patches for Vaccine Delivery Product and Services

Table 96. Inventprise, LLC Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Inventprise, LLC Recent Developments/Updates

Table 98. Inventprise, LLC Competitive Strengths & Weaknesses

Table 99. Kindeva Drug Delivery Basic Information, Manufacturing Base and Competitors

Table 100. Kindeva Drug Delivery Major Business

Table 101. Kindeva Drug Delivery Microarray Patches for Vaccine Delivery Product and Services

Table 102. Kindeva Drug Delivery Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Kindeva Drug Delivery Recent Developments/Updates

Table 104. Kindeva Drug Delivery Competitive Strengths & Weaknesses

Table 105. LTS Lohmann Therapie-Systeme AG Basic Information, Manufacturing Base and Competitors

Table 106. LTS Lohmann Therapie-Systeme AG Major Business

Table 107. LTS Lohmann Therapie-Systeme AG Microarray Patches for Vaccine Delivery Product and Services

Table 108. LTS Lohmann Therapie-Systeme AG Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. LTS Lohmann Therapie-Systeme AG Recent Developments/Updates

Table 110. LTS Lohmann Therapie-Systeme AG Competitive Strengths & Weaknesses

Table 111. RAPHAS Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. RAPHAS Co., Ltd. Major Business

Table 113. RAPHAS Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services

Table 114. RAPHAS Co., Ltd. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. RAPHAS Co., Ltd. Recent Developments/Updates

Table 116. RAPHAS Co., Ltd. Competitive Strengths & Weaknesses

Table 117. WCC BIOMEDICAL CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 118. WCC BIOMEDICAL CO., LTD. Major Business

Table 119. WCC BIOMEDICAL CO., LTD. Microarray Patches for Vaccine Delivery Product and Services

Table 120. WCC BIOMEDICAL CO., LTD. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. WCC BIOMEDICAL CO., LTD. Recent Developments/Updates

Table 122. WCC BIOMEDICAL CO., LTD. Competitive Strengths & Weaknesses

Table 123. Gylden Pharma Limited Basic Information, Manufacturing Base and Competitors

Table 124. Gylden Pharma Limited Major Business

Table 125. Gylden Pharma Limited Microarray Patches for Vaccine Delivery Product and Services

Table 126. Gylden Pharma Limited Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Gylden Pharma Limited Recent Developments/Updates

Table 128. Gylden Pharma Limited Competitive Strengths & Weaknesses

|                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 129. Shenzhen BioQingLam Biotechnology Co., Ltd. Basic Information, Manufacturing Base and Competitors                                                                                                  |
| Table 130. Shenzhen BioQingLam Biotechnology Co., Ltd. Major Business                                                                                                                                         |
| Table 131. Shenzhen BioQingLam Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services                                                                                           |
| Table 132. Shenzhen BioQingLam Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026) |
| Table 133. Shenzhen BioQingLam Biotechnology Co., Ltd. Recent Developments/Updates                                                                                                                            |
| Table 134. Shenzhen BioQingLam Biotechnology Co., Ltd. Competitive Strengths & Weaknesses                                                                                                                     |
| Table 135. CeraVx B.V. Basic Information, Manufacturing Base and Competitors                                                                                                                                  |
| Table 136. CeraVx B.V. Major Business                                                                                                                                                                         |
| Table 137. CeraVx B.V. Microarray Patches for Vaccine Delivery Product and Services                                                                                                                           |
| Table 138. CeraVx B.V. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)                                 |
| Table 139. CeraVx B.V. Recent Developments/Updates                                                                                                                                                            |
| Table 140. CeraVx B.V. Competitive Strengths & Weaknesses                                                                                                                                                     |
| Table 141. Verndari, Inc. Basic Information, Manufacturing Base and Competitors                                                                                                                               |
| Table 142. Verndari, Inc. Major Business                                                                                                                                                                      |
| Table 143. Verndari, Inc. Microarray Patches for Vaccine Delivery Product and Services                                                                                                                        |
| Table 144. Verndari, Inc. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)                              |
| Table 145. Verndari, Inc. Recent Developments/Updates                                                                                                                                                         |
| Table 146. Verndari, Inc. Competitive Strengths & Weaknesses                                                                                                                                                  |
| Table 147. MEDRx Co., Ltd. Basic Information, Manufacturing Base and Competitors                                                                                                                              |
| Table 148. MEDRx Co., Ltd. Major Business                                                                                                                                                                     |
| Table 149. MEDRx Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services                                                                                                                       |
| Table 150. MEDRx Co., Ltd. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)                             |
| Table 151. MEDRx Co., Ltd. Recent Developments/Updates                                                                                                                                                        |
| Table 152. MEDRx Co., Ltd. Competitive Strengths & Weaknesses                                                                                                                                                 |
| Table 153. Advaccine Biopharmaceuticals Suzhou Co., Ltd. Basic Information, Manufacturing Base and Competitors                                                                                                |

|                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 154. Advaccine Biopharmaceuticals Suzhou Co., Ltd. Major Business                                                                                                                                         |
| Table 155. Advaccine Biopharmaceuticals Suzhou Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services                                                                                           |
| Table 156. Advaccine Biopharmaceuticals Suzhou Co., Ltd. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026) |
| Table 157. Advaccine Biopharmaceuticals Suzhou Co., Ltd. Recent Developments/Updates                                                                                                                            |
| Table 158. Advaccine Biopharmaceuticals Suzhou Co., Ltd. Competitive Strengths & Weaknesses                                                                                                                     |
| Table 159. Youwe (Zhuhai) Biotechnology Co., Ltd. Basic Information, Manufacturing Base and Competitors                                                                                                         |
| Table 160. Youwe (Zhuhai) Biotechnology Co., Ltd. Major Business                                                                                                                                                |
| Table 161. Youwe (Zhuhai) Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services                                                                                                  |
| Table 162. Youwe (Zhuhai) Biotechnology Co., Ltd. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)        |
| Table 163. Youwe (Zhuhai) Biotechnology Co., Ltd. Recent Developments/Updates                                                                                                                                   |
| Table 164. Youwe (Zhuhai) Biotechnology Co., Ltd. Competitive Strengths & Weaknesses                                                                                                                            |
| Table 165. CosMED Pharmaceutical Co., Ltd. Basic Information, Manufacturing Base and Competitors                                                                                                                |
| Table 166. CosMED Pharmaceutical Co., Ltd. Major Business                                                                                                                                                       |
| Table 167. CosMED Pharmaceutical Co., Ltd. Microarray Patches for Vaccine Delivery Product and Services                                                                                                         |
| Table 168. CosMED Pharmaceutical Co., Ltd. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)               |
| Table 169. CosMED Pharmaceutical Co., Ltd. Recent Developments/Updates                                                                                                                                          |
| Table 170. CosMED Pharmaceutical Co., Ltd. Competitive Strengths & Weaknesses                                                                                                                                   |
| Table 171. SingleTimeMicroneedles, Inc. Basic Information, Manufacturing Base and Competitors                                                                                                                   |
| Table 172. SingleTimeMicroneedles, Inc. Major Business                                                                                                                                                          |
| Table 173. SingleTimeMicroneedles, Inc. Microarray Patches for Vaccine Delivery Product and Services                                                                                                            |
| Table 174. SingleTimeMicroneedles, Inc. Microarray Patches for Vaccine Delivery Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)                  |

Table 175. SingleTimeMicroneedles, Inc. Recent Developments/Updates

Table 176. SingleTimeMicroneedles, Inc. Competitive Strengths & Weaknesses

Table 177. Global Key Players of Microarray Patches for Vaccine Delivery Upstream  
(Raw Materials)

Table 178. Global Microarray Patches for Vaccine Delivery Typical Customers

Table 179. Microarray Patches for Vaccine Delivery Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Microarray Patches for Vaccine Delivery Picture

Figure 2. World Microarray Patches for Vaccine Delivery Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Microarray Patches for Vaccine Delivery Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Microarray Patches for Vaccine Delivery Production (2021-2032) & (K Pcs)

Figure 5. World Microarray Patches for Vaccine Delivery Average Price (2021-2032) & (US\$/Pc)

Figure 6. World Microarray Patches for Vaccine Delivery Production Value Market Share by Region (2021-2032)

Figure 7. World Microarray Patches for Vaccine Delivery Production Market Share by Region (2021-2032)

Figure 8. North America Microarray Patches for Vaccine Delivery Production (2021-2032) & (K Pcs)

Figure 9. Europe Microarray Patches for Vaccine Delivery Production (2021-2032) & (K Pcs)

Figure 10. China Microarray Patches for Vaccine Delivery Production (2021-2032) & (K Pcs)

Figure 11. Japan Microarray Patches for Vaccine Delivery Production (2021-2032) & (K Pcs)

Figure 12. Microarray Patches for Vaccine Delivery Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 15. World Microarray Patches for Vaccine Delivery Consumption Market Share by Region (2021-2032)

Figure 16. United States Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 17. China Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 18. Europe Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 19. Japan Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 20. South Korea Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 21. ASEAN Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 22. India Microarray Patches for Vaccine Delivery Consumption (2021-2032) & (K Pcs)

Figure 23. Producer Shipments of Microarray Patches for Vaccine Delivery by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Microarray Patches for Vaccine Delivery Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Microarray Patches for Vaccine Delivery Markets in 2025

Figure 26. United States VS China: Microarray Patches for Vaccine Delivery Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Microarray Patches for Vaccine Delivery Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Microarray Patches for Vaccine Delivery Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Microarray Patches for Vaccine Delivery Production Market Share 2025

Figure 30. China Based Manufacturers Microarray Patches for Vaccine Delivery Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Microarray Patches for Vaccine Delivery Production Market Share 2025

Figure 32. World Microarray Patches for Vaccine Delivery Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Microarray Patches for Vaccine Delivery Production Value Market Share by Type in 2025

Figure 34. Dissolving

Figure 35. Non-dissolving

Figure 36. World Microarray Patches for Vaccine Delivery Production Market Share by Type (2021-2032)

Figure 37. World Microarray Patches for Vaccine Delivery Production Value Market Share by Type (2021-2032)

Figure 38. World Microarray Patches for Vaccine Delivery Average Price by Type (2021-2032) & (US\$/Pc)

Figure 39. World Microarray Patches for Vaccine Delivery Production Value by Microneedle Material, (USD Million), 2021 & 2025 & 2032

Figure 40. World Microarray Patches for Vaccine Delivery Production Value Market

Share by Microneedle Material in 2025

Figure 41. Hyaluronic Acid

Figure 42. Taurine

Figure 43. Triple-helical Collagen

Figure 44. World Microarray Patches for Vaccine Delivery Production Market Share by Microneedle Material (2021-2032)

Figure 45. World Microarray Patches for Vaccine Delivery Production Value Market Share by Microneedle Material (2021-2032)

Figure 46. World Microarray Patches for Vaccine Delivery Average Price by Microneedle Material (2021-2032) & (US\$/Pc)

Figure 47. World Microarray Patches for Vaccine Delivery Production Value by Form of Use, (USD Million), 2021 & 2025 & 2032

Figure 48. World Microarray Patches for Vaccine Delivery Production Value Market Share by Form of Use in 2025

Figure 49. Patches

Figure 50. Direct Topical

Figure 51. World Microarray Patches for Vaccine Delivery Production Market Share by Form of Use (2021-2032)

Figure 52. World Microarray Patches for Vaccine Delivery Production Value Market Share by Form of Use (2021-2032)

Figure 53. World Microarray Patches for Vaccine Delivery Average Price by Form of Use (2021-2032) & (US\$/Pc)

Figure 54. World Microarray Patches for Vaccine Delivery Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Microarray Patches for Vaccine Delivery Production Value Market Share by Application in 2025

Figure 56. Routine Childhood Immunization

Figure 57. Adolescent / Pre-adolescent Prevention

Figure 58. Travel / Endemic Exposure / Post-exposure

Figure 59. Respiratory Vaccines with Recurring Demand

Figure 60. Outbreak / Pandemic Preparedness

Figure 61. World Microarray Patches for Vaccine Delivery Production Market Share by Application (2021-2032)

Figure 62. World Microarray Patches for Vaccine Delivery Production Value Market Share by Application (2021-2032)

Figure 63. World Microarray Patches for Vaccine Delivery Average Price by Application (2021-2032) & (US\$/Pc)

Figure 64. Microarray Patches for Vaccine Delivery Industry Chain

Figure 65. Microarray Patches for Vaccine Delivery Procurement Model

Figure 66. Microarray Patches for Vaccine Delivery Sales Model

Figure 67. Microarray Patches for Vaccine Delivery Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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