

Lab-On-Skin Microfluidic Patch Market to Reach \$2.98 Billion by 2029 with 20% CAGR

The Business Research Company's Lab-On-Skin Microfluidic Patch Control Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

LONDON, GREATER LONDON, UNITED KINGDOM, November 14, 2025 /EINPresswire.com/ -- What Is The [Lab-On-Skin Microfluidic Patch](#) Market Size And Growth?

There has been rapid expansion in the market size of the lab-on-skin microfluidic patch in the last few years. From \$1.20 billion in 2024, the market value is projected to hit \$1.44 billion in 2025, reflecting a compound annual growth rate (CAGR) of 20.3%. The notable growth during the



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historic period is the result of factors such as the rising incidence of chronic and lifestyle diseases, increased demand for non-invasive diagnosis methods, heightened awareness of continuous health monitoring, a uptick in bespoke healthcare strategies, growth in home health care services, and a heightened emphasis on prophylactic health management.

The market size of the lab-on-skin microfluidic patch is predicted to experience swift expansion in the upcoming years. It's projected to reach \$2.98 billion in 2029, boasting

a compound annual growth rate (CAGR) of 20.0%. Factors contributing to this projected growth during the forecast period include the escalating demand for wearable health monitoring devices, increased healthcare spending in developing regions, a heightened focus on remote patient monitoring, as well as a rise in government initiatives supporting digital health.

Additionally, expansion of healthcare infrastructure in fledgling economies and a growing preference amongst consumers for real-time health data contribute to this growth.

Technological advancements in biosensing materials and microfluidic integration, progress in flexible and biocompatible substrates, advancements in wireless data transfer and connectivity, progress in sweat and interstitial fluid analysis methods, research in multi-analyte detection platforms, and developments in energy-efficient and self-powered patch systems stand as the

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major forecast period trends.

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What Are The Current Leading Growth Drivers For Lab-On-Skin Microfluidic Patch Market?

The growth of the lab-on-skin microfluidic patch market is predicted to be fueled by the rising focus on personalized medicine. The essence of personalized medicine lies in tailoring medical care according to each patient's unique properties, including genetic, biomarker, and clinical data that help in optimizing treatment results. This trend in healthcare has been growing due to advancements in genomics and biotechnology that allow for accurate diagnosis and treatment strategies aimed at enhancing patient outcomes while mitigating ineffective treatments. Lab-on-skin microfluidic patches play a crucial role in personalized medicine by consistently tracking individual biomarkers which enables decisions about tailored treatment in real-time. The Personalized Medicine Coalition (PMC), a non-profit organization in the US that champions personalized medicine, reported in February 2024 that 16 new tailor-made treatments for uncommon diseases were approved by the US Food and Drug Administration (FDA) in 2023, a significant increase from the six approved the previous year. This growing focus on personalized medicine is, therefore, steering the expansion of the lab-on-skin microfluidic patch market.

Which Companies Are Currently Leading In The Lab-On-Skin Microfluidic Patch Market?

Major players in the Lab-On-Skin Microfluidic Patch Global Market Report 2025 include:

- Abbott Laboratories
- Medtronic plc
- GE HealthCare Technologies Inc.
- Persperity Health Inc.
- Biolinq Inc.
- VivaLNK Inc.
- Blue Spark Technologies Inc.
- GraphWear Technologies Inc.
- Nutromics Pty Ltd.
- Aline Inc.

What Are The Prominent Trends In The Lab-On-Skin Microfluidic Patch Market?

Leading businesses in the lab-on-skin microfluidic patch market are striving to innovate with advancements like sweat-sensing patches for real-time health tracking and personalized health assessment. The term sweat-sensing patch pertains to a wearable technology that gathers and studies sweat to track biomarkers, electrolytes, and other real-time physiological factors. To illustrate, Epicore Biosystems Inc., an American digital health firm, unveiled Connected Hydration in April 2024. This is a wearable microfluidic patch and mobile app that assists industrial workers in warding off dehydration and heat stress via continuous sweat and electrolyte tracking. It offers personalized hydration advice in real-time, sends vibration notifications, and uses AI to provide guidance on optimal fluid consumption to prevent tiredness or harm. Thanks to the

merging of lab-on-skin sensing, cloud-based analytics, and enduring battery life, Connected Hydration augments the safety, efficiency, and robustness of workers confronted with severe heat conditions in global industrial sectors.

How Is The Lab-On-Skin Microfluidic Patch Market Segmented?

The lab-on-skin microfluidic patchmarket covered in this report is segmented –

- 1) By Product Type: Diagnostic Patches, Therapeutic Patches, Monitoring Patches, Other Product Types
- 2) By Material Type: Polymer-Based, Paper-Based, Hybrid, Other Material Types
- 3) By Application: Healthcare Monitoring, Disease Diagnosis, Drug Delivery, Sports And Fitness, Other Applications
- 4) By End-User: Hospitals And Clinics, Homecare, Research Institutes, Sports And Fitness Centers, Other End-Users

Subsegments:

- 1) By Diagnostic Patches: Sweat Analysis Patches, Glucose Monitoring Patches, Electrolyte Detection Patches
- 2) By Therapeutic Patches: Drug Delivery Patches, Pain Management Patches, Wound Healing Patches
- 3) By Monitoring Patches: Vital Signs Monitoring Patches, Hydration Monitoring Patches, Stress Monitoring Patches
- 4) By Other Product Types: Cosmetic Assessment Patches, Environmental Exposure Patches, Allergen Detection Patches

View the full lab-on-skin microfluidic patch market report:

<https://www.thebusinessresearchcompany.com/report/lab-on-skin-microfluidic-patch-global-market-report>

Which Is The Dominating Region For The Lab-On-Skin Microfluidic Patch Market?

In the Lab-On-Skin Microfluidic Patch Global Market Report 2025, North America emerged as the predominant region in 2024. The Asia-Pacific region, however, is projected to witness the most rapid growth in the coming timeframe. The precise report encompasses regions such as the Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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