

Global Biochip Markets: Microarrays and Lab-on-a-Chip

Market Research Report | 2025-06-20 | 136 pages | BCC Research

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Report description:

Description

Report Scope

This report provides an overview of the global biochip market and analyzes market trends. The report includes global revenue (\$ million) for the base year 2023 and estimated data for the forecast period 2024 through 2029. The market is segmented based on product type, technology, application, end user industry and region. The regions covered in this study include North America, Europe, Asia-Pacific and Rest of the World (South America, the Middle East and Africa), focusing on major countries in these regions.

The report focuses on the significant trends and challenges that affect the market and vendor landscape. It analyzes environmental, social and corporate governance (ESG) developments and discusses patents and emerging technologies related to the market.

The report concludes with an analysis of the competitive landscape, which provides the ranking and shares of key companies in the global biochip market. There is also a dedicated section on company profiles that provides details about leading companies in the market.

The company profiles offer detailed information about business segments, financials, product portfolios and recent developments. By geographical region, the market has been segregated into North America, Europe, Asia-Pacific and the Rest of World, which includes the Middle East, Africa and South America. The North American region covers the U.S., Canada and Mexico. Europe examines Germany, the U.K., Italy, France, Spain and the Rest of Europe. Asia-Pacific encompasses China, Japan, India, Australia, South Korea and the Rest of Asia-Pacific. For market estimates, data has been provided for 2021 and 2022 as the historic years, 2023 as the base year, with estimates for 2024 and a forecast for 2025 through 2029.

Report Includes

- 76 data tables and 56 additional tables
- An analysis of the current and future global markets for biochip diagnostic products and technologies
- Analyses of global market trends, with historic revenue data from 2021 to 2024, and projected CAGRs through 2029

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- Estimates of the size of and revenue prospects for the global biochip market, along with a market share analysis by product type, technology, application, end-user vertical, and region
- Facts and figures pertaining to the market dynamics, technological advances, regulations, and the impact of macro-economic factors
- A look at the major commercial biochip products and the future potential of each key market segment, emerging technologies, clinical trials, and other new developments
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, and the ESG scores and practices of leading biotech companies
- Analysis of the industry structure, including companies' market shares, strategic alliances, M&A activity, venture fundings and investment outlook
- Company profiles of major players within the industry, including Abbott, Bio-Rad Laboratories Inc., Agilent Technologies Inc., Thermo Fisher Scientific Inc., and BioMerieux

Executive Summary

Summary:

The global market for biochip was valued at \$16.1 billion in 2024 and is estimated to reach \$27.8 billion by 2029, at a compound annual growth rate (CAGR) of 11.6% from 2024 through 2029.

The global biochip market is witnessing significant growth, driven by the increasing demand for rapid and accurate diagnostic solutions, advances in genomics and proteomics, and the rising adoption of personalized medicine. Biochips, which combine several biochemical assays onto a miniaturized platform, are transforming disciplines like drug discovery, disease diagnosis and biomarker studies. Microarrays and lab-on-a-chip technology allow high-throughput screening, allowing researchers and clinicians to analyze biological samples more quickly and accurately.

The increasing incidence of infectious and chronic diseases and point-of-care testing needs drive biochip use in hospitals, pharmaceutical firms and research centers. Technological advances in nanotechnology, microfluidics and biosensors also improve biochip performance, making them more sensitive, cost-effective and scalable. With government initiatives and increased R&D investments in biotechnology and healthcare, the market is poised for substantial expansion in coming years. Comprehensive market sizing and forecasting will enable stakeholders to identify high-growth segments and regions, understand competitive dynamics and make informed decisions for strategic planning during the forecast period.

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BIOMERIEUX
BIO-RAD LABORATORIES INC.
F. HOFFMANN-LA ROCHE LTD.
IBIOCHIPS
ILLUMINA INC.
LI-COR BIOTECH LLC.
MICRONIT B.V.
NUTCRACKER THERAPEUTICS INC.
QIAGEN
RANDOX LABORATORIES LTD.
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