

# **Laser Capture Microdissection Market by Product (Instruments, Consumables, Software, Services), System Type (Ultraviolet, Infrared, Immunofluorescence), Application (R&D (Molecular Biology, Cell Biology, Forensics), Diagnostics) - Global Forecast to 2029**

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## **Abstracts**

The global laser capture microdissection market is projected to reach USD 306 million by 2029 from USD 184 million in 2024, at a CAGR of 10.6% during the forecast period of 2024 to 2029. The growth of this market can be attributed to the rising research activities in genomics and proteomics, expanding applications in drug discovery and development, and increasing outsourcing of laser capture microdissection. For instance, The active pharmaceutical drug pipeline is increasing annually, primarily led by an increase in research activities. Pharmaceutical companies are increasingly outsourcing research activities to academic organizations and Contract Research Organizations (CROs) to stay competitive and retain focus on core functions. The R&D tasks primarily outsourced range from basic research to late-stage development, genetic engineering, target validation, assay development, hit exploration & lead optimization (hit candidates-as-a-service), safety studies/tests in animal models, and clinical trials involving humans. The growing pipeline of pharmaceutical companies is a key reason attributing to the high outsourcing of services.

“The academic and government research institutes segment accounted for the largest share by end user during the forecast period”

In 2023, academic and government research institutes segment accounted for the largest share by end user in the global laser capture microdissection market. The

academic research institutes segment comprises government-funded medical laboratories and university and research laboratories. Laser capture microdissection is widely used for basic research and clinical practice. Increase in the number of research activities in life science worldwide is a primary growth driver for this end-user segment. Laser capture microdissection helps in the isolation and characterization of specific cells from a heterogeneous mixture. In academic institutes, this technology is used mainly for genetic analysis, microarrays, and protein analysis. The technique helps scientists reduce contamination of surrounding morphologically non-malignant cell types. Protocols have been developed and optimized for acquisition of high-quality RNA and DNA, from both frozen and formalin-fixed, paraffin-embedded tissue.

“Europe: The second largest region in the laser capture microdissection market”

Europe accounted for the second-largest market for laser capture microdissection market after North America. The European laser capture microdissection market has witnessed significant growth in recent years, driven by demographic changes, such as the growing incidence of chronic diseases. This is attributed to the rising geriatric population in the region. As per the European Commission, by 2025, more than 20% of Europeans are expected to be 65 years and above, with a rapid increase in the number of people aged 80 years and above, indicating strong demand growth for healthcare facilities and disease diagnostics services. This will drive pharmaceutical and biopharmaceutical clinical trial activity for novel drug discoveries and directly contribute to the growth of associated markets, such as laser capture microdissection.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side- 60% and Demand Side 40%

By Designation: C-level - 50%, D-level - 20%, and Others - 30%

By Region: North America -40%, Europe -40%, and Asia-Pacific -20%

List of Companies Profiled in the Report:

Thermo Fisher Scientific Inc. (US)

Danaher Corporation (US)

Carl Zeiss AG (Germany)

F. Hoffmann-La Roche AG (Switzerland)

Standard BioTools (US)

JSR Corporation (Japan)

Bio-Rad Laboratories, Inc. (US)

Agilent Technologies, Inc. (US)

Bruker (US)

Molecular Machines & Industries GmbH (Germany)

Ocimum Biosolutions (US)

Theralink Technologies, Inc. (US)

3DHISTECH, Ltd. (Hungary)

Creative Biolabs (US)

DeNova Sciences (Singapore)

Laxco, Inc. (US)

CaresBio Laboratory LLC (US)

VitroVivo Biotech (US)

AnaPath Services GmbH (Switzerland)

Gnome Diagnostics & Gnome Sciences (US)

Monasterium Laboratory (Germany)

Independent Forensics (US)

Norgen Biotek Corp. (Canada)

Creative Bioarray (US)

Epistem Ltd. (UK)

### Research Coverage:

This report provides a detailed picture of the laser capture microdissection market. It aims at estimating the size and future growth potential of the market across different segments such as the product, system type, application, end user and region. The report also includes an in-depth competitive analysis of the key market players along with their company profiles recent developments and key market strategies.

### Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges

The report provides insights on the following pointers:

Analysis of key drivers (Increase in R&D funding, Increase in healthcare expenditure, Technical advantages of LCM, and Contamination-free technique), restraints (High cost of instruments, accessories, and maintenance, Requirement of high degree of technical expertise, and RNA degradation), opportunities (Emerging markets and collaborative research initiatives, Integration with omics technologies), and challenges (Time consuming sample preparation process).

**Product Development/Innovation:** Detailed insights on newly launched product and technological assessment of the laser capture microdissection market

**Market Development:** Comprehensive information about lucrative markets - the

report analyses the market across varied regions.

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the laser capture microdissection market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and product offerings of leading players like Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Carl Zeiss AG (Germany), F. Hoffmann-La Roche AG (Switzerland), Standard BioTools (US), JSR Corporation (Japan), Bio-Rad Laboratories, Inc. (US), Agilent Technologies, Inc. (US), Bruker (US), Molecular Machines & Industries GmbH (Germany), Ocimum Biosolutions (US), Theralink Technologies, Inc. (US), 3DHISTECH, Ltd. (Hungary), Creative Biolabs (US), DeNova Sciences (Singapore), Laxco, Inc. (US), CaresBio Laboratory LLC (US), VitroVivo Biotech (US), AnaPath Services GmbH (Switzerland), Gnome Diagnostics & Gnome Sciences (US), Monasterium Laboratory (Germany), Independent Forensics (US), Norgen Biotek Corp. (Canada), Creative Bioarray (US), and Epistem Ltd. (UK).

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