

# **Laser Capture Microdissection Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Consumables, Reagents and Media, Assay Kits, Instruments, Software and Services), By System Types (Ultraviolet LCM, Infrared LCM, Ultraviolet and Infrared LCM, Immunofluorescence LCM), By Application (Research and Development, Molecular Biology, Cell Biology, Forensic Science, Diagnostics, Other Applications), By End User (Academic and Government Research Institutes, Hospitals, Pharmaceutical and Biotechnology Companies, Contract Research Organizations (CROS), others), By Region, and By Competition, 2019-2029F**

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## **Abstracts**

Global Laser Capture Microdissection Market was valued at USD 159.81 million in 2023 and is accepted to grow with an steady growth in the forecast period at a CAGR of 10.74% through 2029. Laser Capture Microdissection (LCM) is a cutting-edge technology used in biomedical research to precisely isolate and collect specific cells or tissue regions from complex biological samples under direct microscopic visualization. It enables researchers to selectively harvest target cells or areas of interest while preserving their molecular integrity for downstream analysis, such as genomic, transcriptomic, proteomic, or morphological studies. The first step involves

preparing the biological sample for microdissection. This may include tissue sectioning, fixation, embedding, and staining to visualize the cellular morphology and identify the target cells or regions of interest under a microscope. The prepared sample is mounted on a specialized microscope slide or membrane, which is compatible with the LCM system. The slide is placed on the microscope stage, and the target cells or tissue regions are visualized using light microscopy or fluorescence imaging.

Once the target cells or regions are identified, a focused laser beam is precisely directed onto the selected area of the sample using computer-controlled optics. The laser energy induces localized heating and melting of the sample, allowing for the precise cutting and detachment of the target cells or tissue regions from the surrounding tissue. The detached cells or tissue fragments are captured and adhered to a specialized collection device, such as a thermoplastic film or adhesive cap. The collection device is then removed from the microscope stage for further processing or analysis. The isolated cells or tissue samples can be subjected to various downstream analyses, depending on the research objectives and experimental requirements. This may include DNA sequencing, RNA expression profiling, protein analysis, histological staining, or electron microscopy to investigate molecular signatures, cellular functions, and pathological features.

Continuous advancements in laser capture microdissection technology have improved instrument performance, precision, and ease of use. Innovations such as infrared lasers, automated sample handling systems, and integrated imaging and analysis software enhance the efficiency and capabilities of LCM systems, driving adoption across research laboratories, academic institutions, and clinical settings. Single-cell analysis has emerged as a powerful tool for studying cellular heterogeneity, cell-to-cell interactions, and rare cell populations in biological systems. Laser capture microdissection allows for the isolation and analysis of individual cells or small cell clusters from complex tissue samples, enabling researchers to explore diverse cell types, identify cellular subpopulations, and uncover novel biological insights. Laser capture microdissection finds applications across a wide range of research areas, including oncology, neuroscience, developmental biology, infectious diseases, and forensic science. Researchers use LCM technology to dissect complex tissue samples, study gene expression patterns, analyze protein profiles, and investigate disease mechanisms, contributing to advancements in basic science and clinical research.

## Key Market Drivers

## Advancements in Technology

Technological advancements have led to the development of laser capture microdissection systems with higher precision and accuracy in isolating target cells or tissue regions. Enhanced laser optics, microdissection platforms, and software algorithms enable researchers to precisely dissect cells or tissue structures with minimal damage to surrounding areas, ensuring high-quality samples for downstream analysis. Modern LCM systems incorporate advanced automation features and user-friendly interfaces that streamline experimental workflows and improve operational efficiency. Automated sample handling, image recognition algorithms, and robotic manipulation enable researchers to process samples more efficiently, reduce manual intervention, and increase sample throughput, thereby accelerating research and data generation. Integration of laser capture microdissection systems with downstream molecular analysis platforms, such as PCR, microarrays, next-generation sequencing (NGS), and mass spectrometry, enhances the capabilities of LCM technology for comprehensive molecular profiling studies. Seamless integration facilitates sample transfer, data analysis, and result interpretation, enabling researchers to extract valuable insights from complex biological samples.

Technological innovations have expanded the application areas of laser capture microdissection beyond traditional research fields, such as cancer biology and neuroscience, to include emerging areas such as single-cell analysis, spatial transcriptomics, and 3D tissue imaging. These advancements enable researchers to explore new research questions, uncover novel biomarkers, and gain deeper insights into complex biological processes and disease mechanisms. Miniaturization of LCM systems and the development of portable devices have increased accessibility to laser capture microdissection technology in diverse research settings, including academic laboratories, clinical research facilities, and field-based studies.

Compact and portable LCM systems offer flexibility in experimental design, sample collection, and on-site analysis, empowering researchers to conduct studies in remote or resource-limited environments. Modern laser capture microdissection systems feature customizable configurations and modular designs that cater to the specific needs and preferences of researchers. Modular components, interchangeable optics, and customizable software interfaces allow users to adapt LCM systems to different experimental requirements, sample types, and research applications, enhancing versatility and usability in diverse research settings. This factor will help in the development of the Global Laser Capture Microdissection Market.

## Growing Focus on Single-Cell Analysis

Laser capture microdissection allows researchers to precisely isolate individual cells or small cell clusters from complex tissue samples with spatial precision. By targeting specific cells of interest, researchers can dissect and collect cells based on morphological, phenotypic, or spatial characteristics, enabling downstream molecular analysis at the single-cell level. Laser capture microdissection preserves the integrity and viability of isolated cells during the microdissection process. By minimizing mechanical trauma and contamination, LCM technology ensures that isolated cells retain their molecular signatures, gene expression profiles, and functional properties, providing accurate insights into cellular biology and disease mechanisms. Laser capture microdissection enhances the sensitivity and specificity of single-cell analysis by minimizing sample contamination and background noise. By isolating target cells from adjacent tissue regions or cell populations, LCM technology enables researchers to focus exclusively on the molecular signatures and biological features of individual cells, improving the accuracy and reliability of downstream analyses.

Laser capture microdissection enables multiplexed molecular profiling of individual cells, allowing researchers to simultaneously analyze multiple biomarkers, gene expression patterns, and signaling pathways within heterogeneous cell populations. By combining LCM with advanced molecular techniques, such as RNA sequencing, immunohistochemistry, and proteomics, researchers can unravel complex cellular interactions and identify key regulatory mechanisms underlying disease progression and treatment response. Single-cell analysis facilitated by laser capture microdissection holds significant implications for personalized medicine and precision therapeutics.

By characterizing the molecular profiles of individual cells within patient samples, clinicians can tailor treatment strategies, predict treatment outcomes, and monitor disease progression with greater precision and efficacy, ultimately improving patient care and clinical outcomes. Ongoing advancements in laser capture microdissection technology, including improved instrument performance, automation capabilities, and integration with downstream analysis platforms, further drive the demand for LCM technology in single-cell analysis applications. These technological innovations enhance the efficiency, throughput, and scalability of single-cell analysis workflows, empowering researchers to address complex biological questions and translational challenges in biomedical research and clinical practice. This factor will pace up the demand of the Global Laser Capture Microdissection Market.

## Expanding Applications in Biomedical Research

Biomedical research increasingly recognizes the importance of cellular heterogeneity in various diseases and biological processes. Laser Capture Microdissection enables researchers to precisely isolate specific cell populations from heterogeneous samples, allowing for in-depth analysis of gene expression, protein profiles, and cellular functions within distinct cell subsets. In oncology, laser capture microdissection facilitates the identification of cancer-specific biomarkers, tumor heterogeneity, and molecular pathways driving disease progression. By isolating tumor cells from surrounding stroma or normal tissue, researchers can elucidate critical molecular alterations and identify potential targets for diagnostic and therapeutic interventions. LCM plays a crucial role in neuroscience research by enabling the isolation of neurons, glial cells, and other neural populations from brain tissue. This allows for the study of neurodegenerative diseases, synaptic plasticity, and neural circuitry at the cellular level, leading to insights into disease mechanisms and the development of novel treatments.

Laser Capture Microdissection is increasingly used to study host-pathogen interactions and immune responses in infectious diseases. By isolating infected cells or specific immune cell subsets from tissue samples, researchers can investigate pathogen invasion, host defense mechanisms, and immune evasion strategies, ultimately informing the development of vaccines and therapeutics. LCM facilitates the study of developmental processes and tissue regeneration by isolating specific cell types during embryogenesis, organogenesis, and wound healing. Researchers can analyze gene expression patterns, signaling pathways, and cellular interactions to elucidate the molecular mechanisms underlying tissue development, regeneration, and repair. In the era of personalized medicine, laser capture microdissection enables researchers to analyze patient-derived samples and identify individualized treatment strategies based on molecular profiling and biomarker discovery.

By integrating laser capture microdissection with genomic, transcriptomic, and proteomic analyses, researchers can tailor therapeutic interventions to patients' unique genetic and molecular profiles, improving treatment efficacy and patient outcomes. Laser Capture Microdissection is instrumental in drug discovery and target validation studies by providing insights into drug response mechanisms, resistance mechanisms, and target expression profiles within specific cell populations. By isolating drug-resistant cells or target-expressing cells from tissue samples, researchers can validate drug targets, assess drug efficacy, and optimize therapeutic strategies for clinical translation. This factor will accelerate the demand of the Global Laser Capture Microdissection Market.

## Key Market Challenges

### Cost of Equipment

Laser Capture Microdissection instruments and systems can be expensive to acquire, with prices ranging from tens of thousands to hundreds of thousands of dollars depending on the model and specifications. The high initial investment required to purchase laser capture microdissection equipment can pose a barrier to entry for smaller research labs, academic institutions, and facilities with limited budgets. In addition to the initial purchase cost, laser capture microdissection systems often require ongoing maintenance, calibration, and servicing to ensure optimal performance and reliability. These operating expenses, including the costs of consumables, reagents, and accessories, can further strain limited research budgets and resources, particularly in academic and non-profit settings.

The total cost of ownership (TCO) of laser capture microdissection equipment extends beyond the initial purchase price and includes expenses associated with instrument maintenance, training, technical support, and upgrades over the equipment's lifespan. The cumulative TCO of laser capture microdissection systems can be substantial, making it challenging for research institutions to justify the investment and allocate resources effectively. Research funding limitations and budget constraints restrict the ability of research labs and institutions to invest in expensive capital equipment such as laser capture microdissection systems. Competition for limited funding sources, declining research budgets, and uncertain economic conditions further exacerbate the financial challenges associated with acquiring and maintaining laser capture microdissection equipment.

### Limited Compatibility with Downstream Analysis

Incompatibility between laser capture microdissection systems and downstream analysis platforms can result in data loss, sample contamination, or experimental artifacts. Differences in sample handling, storage conditions, and processing protocols may compromise the integrity of captured samples and adversely affect the quality and reliability of downstream analyses, such as genomic, transcriptomic, or proteomic profiling. Incompatible laser capture microdissection and downstream analysis workflows can lead to workflow disruptions and delays in research projects. Researchers may encounter technical challenges, protocol inconsistencies, or data transfer issues when transitioning from sample collection and preparation using laser

capture microdissection followed by subsequent molecular or cellular analyses, impeding progress, and hindering data interpretation.

Laser capture microdissection systems and downstream analysis platforms may utilize proprietary formats, software interfaces, or data formats that are not compatible with each other. This lack of interoperability restricts the seamless exchange of data, metadata, and analytical results between laser capture microdissection instruments and downstream analysis tools, complicating data integration, interpretation, and collaboration among researchers. Laser capture microdissection-generated data often require specialized bioinformatics tools, computational algorithms, and analytical workflows for interpretation and visualization. Incompatibility with existing data analysis pipelines or software platforms may necessitate custom solutions, additional training, or expertise in bioinformatics and data science, posing challenges for researchers with limited computational resources or expertise.

## Key Market Trends

### Increasing Focus on Sample Quality and Integrity

There is a growing emphasis on improving the precision of laser capture microdissection techniques to ensure the accurate isolation of target cells or tissue regions while minimizing damage to surrounding structures. Advanced laser optics, imaging systems, and microdissection platforms enable researchers to achieve higher spatial resolution and finer control over sample collection, enhancing the quality and integrity of captured samples. Maintaining sample purity and minimizing contamination is paramount in laser capture microdissection to prevent cross-contamination between different cell populations or tissue compartments. By implementing stringent sample preparation protocols, sterile handling procedures, and contamination control measures, researchers can preserve sample integrity and minimize the risk of experimental artifacts or false-positive results in downstream analyses.

Optimizing tissue fixation and staining protocols is essential for preserving cellular morphology, antigenicity, and nucleic acid integrity during laser capture microdissection. By selecting appropriate fixatives, staining reagents, and labeling methods, researchers can enhance tissue contrast, improve cell visualization, and facilitate accurate identification and isolation of target cells within complex tissue specimens. Validating the molecular integrity of captured samples is critical for ensuring the reliability and reproducibility of downstream molecular analyses, such as genomic, transcriptomic, and

proteomic profiling. Quality control assays, RNA integrity assessment, and validation experiments help confirm the preservation of RNA, DNA, and protein molecules in laser capture microdissection samples, providing assurance of data quality and reliability.

## Segmental Insights

### Product Insights

The Reagents and Media segment is projected to experience significant dominance in the Global Laser Capture Microdissection Market during the forecast period. As laser capture microdissection technology becomes more widely adopted in research laboratories and academic institutions worldwide, there is a corresponding rise in the demand for reagents and media specifically designed for LCM applications. These specialized reagents and media are essential for sample preparation, staining, and preservation during the microdissection process. Laser capture microdissection is used across a wide range of research areas, including cancer biology, neuroscience, developmental biology, and infectious diseases. Each application requires specific reagents and media formulations optimized for tissue fixation, staining protocols, and nucleic acid preservation. The diversification of LCM applications drives the development and commercialization of new reagents and media products tailored to meet the evolving needs of researchers in various fields.

Ongoing advancements in LCM technology and instrumentation have led to the development of more efficient and user-friendly systems with enhanced capabilities. These advancements drive the demand for complementary reagents and media that can maximize the performance and reliability of LCM workflows. Manufacturers are continually innovating to develop reagents and media formulations that improve sample quality, increase throughput, and streamline experimental protocols. Single-cell analysis has emerged as a powerful tool in biomedical research for studying cellular heterogeneity, cell-to-cell interactions, and rare cell populations. Laser capture microdissection enables the isolation of individual cells or small cell clusters from complex tissue samples for downstream molecular analysis. Reagents and media play a critical role in preserving cell morphology, RNA integrity, and protein expression levels during the microdissection and sample preparation process, making them indispensable components of single-cell analysis workflows.

### System Types Insights

The Infrared LCM segment is projected to experience significant growth in the Global



Laser Capture Microdissection Market during the forecast period. Infrared (IR) lasers offer superior tissue penetration compared to ultraviolet (UV) lasers traditionally used in LCM systems. IR lasers can penetrate deeper into tissue samples without causing damage to adjacent structures, enabling the precise isolation of target cells or tissue regions embedded within complex tissue architectures. Infrared laser microdissection minimizes the risk of sample degradation and photodamage by reducing exposure to harmful UV radiation. This preservation of sample integrity allows researchers to capture high-quality RNA, DNA, proteins, and other biomolecules for downstream molecular analysis without compromising data quality or reliability.

The use of infrared lasers broadens the application range of laser capture microdissection to include a wider variety of tissue types, including dense and heavily pigmented samples. IR LCM systems can effectively capture cells from challenging tissue specimens, such as brain tissue, melanoma, and other heavily pigmented tissues, which may be difficult to dissect using conventional UV-based LCM platforms. Infrared laser capture microdissection is compatible with a variety of downstream molecular analysis techniques, including PCR, microarray analysis, next-generation sequencing (NGS), and mass spectrometry. This compatibility allows researchers to perform comprehensive molecular profiling and biomarker discovery studies using samples isolated with IR LCM systems, thereby facilitating the elucidation of disease mechanisms and identification of therapeutic targets.

## Regional Insights

North America emerged as the dominant player in the Global Laser Capture Microdissection Market in 2023. North America boasts a robust infrastructure for research and development, with well-established academic institutions, research centers, and biotechnology companies. The region's strong emphasis on scientific innovation and technological advancement creates fertile ground for the adoption and utilization of cutting-edge technologies like laser capture microdissection.

The United States, in particular, allocates a significant portion of its GDP to healthcare spending. This substantial investment fuels research initiatives and drives demand for advanced tools and technologies in biomedical research, including laser capture microdissection systems. Many prominent manufacturers of laser capture microdissection instruments and systems are based in North America. These companies leverage the region's skilled workforce, infrastructure, and market demand to develop and market their products, further consolidating North America's position as a leader in the global LCM market.

## Key Market Players

Danher Corporation

ThermoFisher Scientific, Inc.

Carl Zeiss AG

DENOVA Sciences Pte Ltd.

Indivumed GmbH

Promega Corporation

Precision MicroFab LLC

Avant Diagnostics, Inc.

MIA Cellavie Inc.

CaresBioLaboratory LLC

Bio-Rad Laboratories, Inc

## Report Scope:

In this report, the Global Laser Capture Microdissection Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Laser Capture Microdissection Market, By Product:

Consumables

Reagents and Media

Assay Kits

Instruments

Software and Services

Laser Capture Microdissection Market, By System Types:

Ultraviolet LCM

Infrared LCM

Ultraviolet and Infrared LCM

Immunofluorescence LCM

Laser Capture Microdissection Market, By Application:

Research and Development

Molecular Biology

Cell Biology

Forensic Science

Diagnostics

Other Applications

Laser Capture Microdissection Market, By End User:

Academic and Government Research Institutes

Hospitals

Pharmaceutical and Biotechnology Companies

Contract Research Organizations (CROS)

Others

Laser Capture Microdissection Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

India

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Laser Capture Microdissection Market.

### Available Customizations:

Global Laser Capture Microdissection market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### 4. VOICE OF CUSTOMER

### 5. GLOBAL LASER CAPTURE MICRODISSECTION MARKET OUTLOOK

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Product (Consumables, Reagents and Media, Assay Kits, Instruments, Software and Services)
  - 5.2.2. By System Types (Ultraviolet LCM, Infrared LCM, Ultraviolet and Infrared LCM,

Immunofluorescence LCM)

5.2.3. By Application (Research and Development, Molecular Biology, Cell Biology, Forensic Science, Diagnostics, Other Applications)

5.2.4. By End User (Academic and Government Research Institutes, Hospitals, Pharmaceutical and Biotechnology Companies, Contract Research Organizations (CROS), others)

5.2.5. By Region

5.2.6. By Company (2023)

5.3. Market Map

## **6. NORTH AMERICA LASER CAPTURE MICRODISSECTION MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Product

6.2.2. By System Types

6.2.3. By Application

6.2.4. By End User

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Laser Capture Microdissection Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Product

6.3.1.2.2. By System Types

6.3.1.2.3. By Application

6.3.1.2.4. By End User

6.3.2. Canada Laser Capture Microdissection Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Product

6.3.2.2.2. By System Types

6.3.2.2.3. By Application

6.3.2.2.4. By End User

6.3.3. Mexico Laser Capture Microdissection Market Outlook

6.3.3.1. Market Size & Forecast

- 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
  - 6.3.3.2.1. By Product
  - 6.3.3.2.2. By System Types
  - 6.3.3.2.3. By Application
  - 6.3.3.2.4. By End User

## **7. EUROPE LASER CAPTURE MICRODISSECTION MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Product
  - 7.2.2. By System Types
  - 7.2.3. By Application
  - 7.2.4. By End User
  - 7.2.5. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Laser Capture Microdissection Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Product
      - 7.3.1.2.2. By System Types
      - 7.3.1.2.3. By Application
      - 7.3.1.2.4. By End User
  - 7.3.2. United Kingdom Laser Capture Microdissection Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Product
      - 7.3.2.2.2. By System Types
      - 7.3.2.2.3. By Application
      - 7.3.2.2.4. By End User
  - 7.3.3. Italy Laser Capture Microdissection Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Product



- 7.3.3.2.2. By System Types
- 7.3.3.2.3. By Application
- 7.3.3.2.4. By End User
- 7.3.4. France Laser Capture Microdissection Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Product
    - 7.3.4.2.2. By System Types
    - 7.3.4.2.3. By Application
    - 7.3.4.2.4. By End User
- 7.3.5. Spain Laser Capture Microdissection Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Product
    - 7.3.5.2.2. By System Types
    - 7.3.5.2.3. By Application
    - 7.3.5.2.4. By End User

## **8. ASIA-PACIFIC LASER CAPTURE MICRODISSECTION MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Product
  - 8.2.2. By System Types
  - 8.2.3. By Application
  - 8.2.4. By End User
  - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Laser Capture Microdissection Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Product
      - 8.3.1.2.2. By System Types
      - 8.3.1.2.3. By Application
      - 8.3.1.2.4. By End User

### 8.3.2. India Laser Capture Microdissection Market Outlook

#### 8.3.2.1. Market Size & Forecast

##### 8.3.2.1.1. By Value

#### 8.3.2.2. Market Share & Forecast

##### 8.3.2.2.1. By Product

##### 8.3.2.2.2. By System Types

##### 8.3.2.2.3. By Application

##### 8.3.2.2.4. By End User

### 8.3.3. Japan Laser Capture Microdissection Market Outlook

#### 8.3.3.1. Market Size & Forecast

##### 8.3.3.1.1. By Value

#### 8.3.3.2. Market Share & Forecast

##### 8.3.3.2.1. By Product

##### 8.3.3.2.2. By System Types

##### 8.3.3.2.3. By Application

##### 8.3.3.2.4. By End User

### 8.3.4. South Korea Laser Capture Microdissection Market Outlook

#### 8.3.4.1. Market Size & Forecast

##### 8.3.4.1.1. By Value

#### 8.3.4.2. Market Share & Forecast

##### 8.3.4.2.1. By Product

##### 8.3.4.2.2. By System Types

##### 8.3.4.2.3. By Application

##### 8.3.4.2.4. By End User

### 8.3.5. Australia Laser Capture Microdissection Market Outlook

#### 8.3.5.1. Market Size & Forecast

##### 8.3.5.1.1. By Value

#### 8.3.5.2. Market Share & Forecast

##### 8.3.5.2.1. By Product

##### 8.3.5.2.2. By System Types

##### 8.3.5.2.3. By Application

##### 8.3.5.2.4. By End User

## 9. SOUTH AMERICA LASER CAPTURE MICRODISSECTION MARKET OUTLOOK

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

#### 9.2.1. By Product

- 9.2.2. By System Types
- 9.2.3. By Application
- 9.2.4. By End User
- 9.2.5. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Laser Capture Microdissection Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Product
      - 9.3.1.2.2. By System Types
      - 9.3.1.2.3. By Application
      - 9.3.1.2.4. By End User
  - 9.3.2. Argentina Laser Capture Microdissection Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Product
      - 9.3.2.2.2. By System Types
      - 9.3.2.2.3. By Application
      - 9.3.2.2.4. By End User
  - 9.3.3. Colombia Laser Capture Microdissection Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Product
      - 9.3.3.2.2. By System Types
      - 9.3.3.2.3. By Application
      - 9.3.3.2.4. By End User

## **10. MIDDLE EAST AND AFRICA LASER CAPTURE MICRODISSECTION MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Product
  - 10.2.2. By System Types
  - 10.2.3. By Application

- 10.2.4. By End User
- 10.2.5. By Country
- 10.3. MEA: Country Analysis
  - 10.3.1. South Africa Laser Capture Microdissection Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Product
      - 10.3.1.2.2. By System Types
      - 10.3.1.2.3. By Application
      - 10.3.1.2.4. By End User
  - 10.3.2. Saudi Arabia Laser Capture Microdissection Market Outlook
    - 10.3.2.1. Market Size & Forecast
      - 10.3.2.1.1. By Value
    - 10.3.2.2. Market Share & Forecast
      - 10.3.2.2.1. By Product
      - 10.3.2.2.2. By System Types
      - 10.3.2.2.3. By Application
      - 10.3.2.2.4. By End User
  - 10.3.3. UAE Laser Capture Microdissection Market Outlook
    - 10.3.3.1. Market Size & Forecast
      - 10.3.3.1.1. By Value
    - 10.3.3.2. Market Share & Forecast
      - 10.3.3.2.1. By Product
      - 10.3.3.2.2. By System Types
      - 10.3.3.2.3. By Application
      - 10.3.3.2.4. By End User

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. PORTER'S FIVE FORCES ANALYSIS**

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

## **14. COMPETITIVE LANDSCAPE**

- 14.1. Danaher Corporation
  - 14.1.1. Business Overview
  - 14.1.2. Company Snapshot
  - 14.1.3. Products & Services
  - 14.1.4. Financials (As Reported)
  - 14.1.5. Recent Developments
  - 14.1.6. Key Personnel Details
  - 14.1.7. SWOT Analysis
- 14.2. Thermo Fisher Scientific, Inc.
- 14.3. Carl Zeiss AG
- 14.4. DENOVA Sciences Pte Ltd.
- 14.5. Indivumed GmbH
- 14.6. Promega Corporation
- 14.7. Precision MicroFab LLC
- 14.8. Avant Diagnostics, Inc.
- 14.9. MIA Cellavie Inc.
- 14.10. CaresBio Laboratory LLC
- 14.11. Bio-Rad Laboratories, Inc

## **15. STRATEGIC RECOMMENDATIONS**

## **16. ABOUT US & DISCLAIMER**

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