

Laser Capture Microdissection Market Report by Product (Instruments, Consumables, Software and Services), System Type (Ultraviolet LCM, Infrared LCM, and Others), Application (Research and Development, Diagnostics, and Others), End User (Hospitals, Academic and Government Research Institutes, Pharmaceutical and Biotechnology Companies, Contract Research Organizations (CROs)), and Region 2024-2032

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Abstracts

The global laser capture microdissection market size reached US\$ 148.3 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 329.3 Million by 2032, exhibiting a growth rate (CAGR) of 9.1% during 2024-2032.

Laser capture microdissection (LCM) is a high-resolution method of isolating cells from their surrounding tissues using a laser beam and direct microscopic visualization. It relies on ultraviolet (UV), infrared, and immunofluorescence laser beams to harvest pure enriched cell populations from tissue, blood, and semen samples. It accurately differentiates between normal and abnormal cells to investigate subcellular profiles. It is used on formalin-fixed, paraffin wax-embedded, frozen, and cytologic specimens for studying gene expression and detecting cancer. In addition, it finds application in academic and government research institutes, pharmaceutical and biotechnology companies, polymerase chain reaction (PCR), proteomics, and hospitals for next-generation and sanger sequencing.

Laser Capture Microdissection Market Trends:

The growing utilization of molecular analysis in a bioscience research laboratory, along with the expanding healthcare industry, represents one of the key factors driving the market. Moreover, as LCM allows precise vivo examination of cell populations, such as malignant cells of Hodgkin's disease and carcinoma in situ with sensitive analytical techniques, its sales are rising across the globe. Additionally, there is an increase in healthcare expenditure and research and development (R&D) funding by governments of several countries. This, along with the escalating demand for LCM in forensic science and molecular biology centers to obtain interpretable DNA profiles, is stimulating the market growth. Besides this, LCM is utilized for establishing genetic fingerprints of specific pathological lesions and malignant neoplasms to identify new diagnostic and prognostic markers. It also helps provide individualized treatment of tumor, which is positively influencing the market. Furthermore, key market players are introducing enhanced LCM technologies equipped with immunofluorescence laser diodes for improved biomarker discovery and cancer chemoprevention, which is projected to bolster the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global laser capture microdissection market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, system type, application and end user.

Breakup by Product:

Instruments

Consumables

Software and Services

Breakup by System Type:

Ultraviolet LCM

Infrared LCM

Others

Breakup by Application:

Research and Development

Diagnostics

Others

Breakup by End User:

Hospitals
Academic and Government Research Institutes
Pharmaceutical and Biotechnology Companies
Contract Research Organizations (CROs)

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AnaPath Services GmbH (ST Pharm Co. Ltd), Bio-RAD Laboratories Inc., Caresbio Laboratory LLC, Carl Zeiss Meditec AG (Carl Zeiss AG),

Epistem Ltd, Fluidigm Corporation, Gnome Diagnostics LLC, H?BNER Photonics, Leica Microsystems GmbH (Danaher Corporation), Molecular Machines & Industries, Thermo Fisher Scientific Inc. and VitroVivo Biotech.

Key Questions Answered in This Report

1. What was the size of the global laser capture microdissection market in 2023?
2. What is the expected growth rate of the global laser capture microdissection market during 2024-2032?
3. What has been the impact of COVID-19 on the global laser capture microdissection market?
4. What are the key factors driving the global laser capture microdissection market?
5. What is the breakup of the global laser capture microdissection market based on the system type?
6. What is the breakup of the global laser capture microdissection market based on the application?
7. What is the breakup of the global laser capture microdissection market based on the end user?
8. What are the key regions in the global laser capture microdissection market?
9. Who are the key players/companies in the global laser capture microdissection market?

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