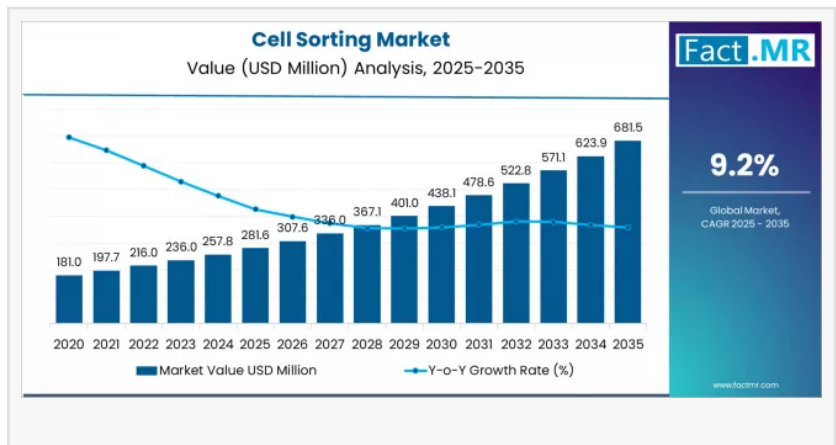


Global and European Cell Sorting Market Outlook 2025–2035

Cell sorting market is projected to grow from USD 281.6 million in 2025 to USD 681.5 million by 2035, at a CAGR of 9.2%

ROCKVILLE, MD, UNITED STATES,
November 19, 2025 /

EINPresswire.com/ -- The global [cell sorting market](#) is predicted to rise from USD 281.6 million in 2025 to approximately USD 681.5 million by 2035, representing an absolute growth of USD 399.9 million over the forecast period. This indicates total increase of 142.1%, with the market predicted to rise at a CAGR of 9.2% between 2025 and 2035.



The cell sorting market is experiencing strong growth as advancements in biotechnology, immunology, and precision medicine accelerate global demand for high-performance cell analysis and purification technologies. Rising investment in cell therapy research, expanding applications in oncology and stem cell science, and increased use of flow cytometry platforms are driving sustained market expansion through 2035.

Cell sorting systems enable researchers and clinicians to isolate, characterize, and purify specific cell populations based on unique biomarkers. These technologies support critical workflows in drug discovery, regenerative medicine, vaccine development, and personalized therapies.

Key Market Highlights

Growing demand for high-purity cell populations in clinical diagnostics, genomic studies, and therapeutic development.

Strong adoption of flow cytometry-based cell sorters, supported by innovations in laser technology, optics, and microfluidics.

Rising investments in cell-based research, particularly in cancer immunotherapy and stem cell biology.

Automation and miniaturization trends improving accuracy, throughput, and cost-efficiency for research labs and biopharma companies.

Expanding use in clinical-grade applications, including CAR-T therapy manufacturing and precision immunology.

To access the complete data tables and in-depth insights, request a Discount On The Report here: https://www.factmr.com/connectus/sample?flag=S&rep_id=11629

Quick Stats for Cell Sorting Market:

Cell Sorting Market Value (2025): USD 281.6 million

Cell Sorting Market Forecast Value (2035): USD 681.5 million

Cell Sorting Market Forecast CAGR: 9.2%

Leading Product Type in Cell Sorting Market: Reagents & Consumables

Key Growth Regions in Cell Sorting Market: Asia Pacific, North America, and Europe

Top Players in Cell Sorting Market: BD (Becton, Dickinson and Company), Bio-Rad Laboratories Inc., Danaher Corporation, Sony Group Corporation, Miltenyi Biotec

Where revenue comes from - Now Vs Next (industry-level view)

Major Growth Drivers

1. Rapid Expansion of Cell and Gene Therapy

Cell sorting technologies are essential for isolating functional immune cells, stem cells, and genetically modified cells used in cell-based therapies. Major biopharmaceutical companies are increasing investments in advanced sorting platforms to support therapy development and scale-up.

2. Rising Use in Cancer Research & Immunology

Oncology labs rely heavily on cell sorting to analyze tumor heterogeneity, identify immune cell subtypes, and support immunotherapeutic development.

3. Advancements in Flow Cytometry

New generation sorters feature improved optics, multi-laser configurations, and real-time image-based sorting, enabling high-precision selection of rare cell populations.

4. Growing Adoption in Academic & Research Institutions

Universities and life science research labs are expanding use of cell sorting instruments for basic research, genetic engineering, and biomarker discovery.

5. Adoption of Automation and Microfluidic Sorting

Automated, high-throughput, and microfluidic-based sorters reduce manual handling, minimize

contamination, and improve reproducibility.

Market Segmentation

By Technology

Fluorescence-based cell sorting

Magnetic-activated cell sorting (MACS)

Microfluidic cell sorting

Optical and image-based sorting systems

By Application

Research applications

Clinical diagnostics

Drug discovery and development

Stem cell research

Immunology and oncology

By End User

Biopharmaceutical and biotech companies

Academic and research institutions

Hospitals and clinical labs

Contract research organizations (CROs)

Regional Outlook

North America

A leading market driven by strong biotechnology infrastructure, high R&D spending, and wide adoption of cell and gene therapy technologies.

Europe

Significant demand supported by advanced research programs, strong focus on clinical diagnostics, and government-backed initiatives in life sciences.

Asia Pacific

A rapidly growing region as China, Japan, South Korea, and India invest heavily in biomedical research, cancer diagnostics, and biotech manufacturing.

Rest of the World

Emerging opportunities in Latin America and the Middle East as healthcare systems expand molecular testing and research capabilities.

Competitive Landscape

The market includes major life science instrument manufacturers, flow cytometry developers, and specialized microfluidic technology companies. Leading strategies include:

Scaling high-throughput and clinical-grade sorters

Integrating automation, AI, and real-time imaging

Expanding reagent and consumable portfolios

Collaborating with biotech companies for therapy development

Enhancing precision sorting for rare cell populations

Future Outlook

The cell sorting market is positioned for strong long-term growth as advancements in precision medicine, immunotherapy, and next-generation research platforms accelerate global demand. Companies that prioritize automation, clinical-grade reliability, and innovative sorting technologies will maintain strong competitive advantage through 2035.

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