

Single Cell Analysis Market by Product (Consumables (Beads, Kits, Reagents), Instruments), Cell Type (Human, Animal), Technique (Flow Cytometry, NGS, PCR, Microscopy), Application (Research (Cancer, Neurology), Medical (NIPT, IVF)) - Global Forecast to 2030

Market Report | 2025-05-07 | 518 pages | MarketsandMarkets

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Report description:

The single-cell analysis market is projected to reach USD 7.56 billion by 2030 from an estimated USD 3.81 billion in 2025, at a CAGR of 14.7% during the forecast period. This market growth is largely driven by the increasing emphasis on personalized medicine. Rising research & development investments in the pharmaceutical and biotechnology industries also contribute to the expansion of single-cell analysis. Additionally, factors such as growth in stem cell research and advancements in single-cell analysis technologies are expected to further boost the market. Furthermore, the increasing incidence of cancer is creating a demand for advanced therapies, which is anticipated to enhance the growth of the single-cell analysis market. The rising adoption of advanced single-cell sequencing techniques is also expected to propel market growth in the coming years.

"The research applications segment accounted for the largest share of the market segment in 2024."

The single-cell analysis market is divided into two main categories based on applications: research and medical applications. The research application segment includes various fields such as cancer research, immunology research, neurology research, stem cell research, and other related areas. In contrast, the medical applications segment is further divided into non-invasive prenatal diagnosis, in vitro fertilization, and circulating tumor cell detection.

In 2024, the research applications segment held the largest share of the global single-cell analysis market. The increasing prevalence of cancer is driving the demand for advanced therapies, which contributes to the growth of this segment. Additionally, the expansion of stem cell research is also expected to further boost the growth of the single-cell analysis market.

"The flow cytometry segment accounted for a major share of the market in 2024."

The single-cell analysis market is categorized based on technology into several segments: flow cytometry, next-generation

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sequencing, polymerase chain reaction, microscopy, mass spectrometry, and other techniques. In 2024, the flow cytometry segment was the largest contributor to the global single-cell analysis market by technology. This significant growth is primarily due to the widespread use of flow cytometry in single-cell analysis, as it can perform multiple measurements within a heterogeneous mixture. Furthermore, the increasing adoption of advanced cell identification and characterization technologies is expected to further drive growth in this segment of the single-cell analysis market.

"The US dominated the single-cell analysis market in 2024."

The single-cell analysis market is divided into six major regions: North America, Europe, Asia Pacific, Latin America, the Middle East, and Africa. In 2024, the US dominated this market in North America. As the world's largest biopharmaceutical market, the US leads in biopharmaceutical research and investments. Its robust healthcare infrastructure further supports research & development in the life sciences sector. Additionally, the presence of numerous biopharmaceutical companies and increasing research activities in the biotechnology industry are contributing to market growth in the US. Furthermore, the rising focus on developing personalized medicine, driven by the increasing incidence of cancer, is also boosting the growth of the single-cell analysis market.

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

- By Respondent: Supply Side (70%) and Demand Side (30%)
- By Designation: Managers (45%), CXOs & Directors (30%), and Executives (25%)
- By Region: North America (40%), Europe (25%), Asia Pacific (25%), Latin America (5%), and Middle East & Africa (5%)

List of Companies Profiled in the Report:

- Thermo Fisher Scientific Inc. (US)
- Danaher Corporation (US)
- Merck KGaA (Germany)
- BD (US)
- Agilent Technologies, Inc. (US)
- QIAGEN (Netherlands)
- 10x Genomics (US)
- Illumina, Inc. (US)
- Bio-Rad Laboratories, Inc. (US)
- DiaSorin S.p.A. (Italy)
- Standard BioTools (US)
- Tecan Trading AG (Switzerland)
- Sartorius AG (Germany)
- Corning Incorporated (US)
- Cytex Biosciences (US)
- Takara Bio Inc. (Japan)
- bioMérieux (France)
- Revvity (US)
- Bio-Techne (US)
- PacBio (US)
- Bruker (US)
- Promega Corporation (US)
- Oxford Nanopore Technologies plc. (UK)
- The Menarini Group (Italy)
- Singleron Biotechnologies (Germany)

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- BICO (Sweden)
- Fluent BioSciences (US)
- RareCyte, Inc. (US)
- Cell Microsystems (US)
- NanoCollect Biomedical (US)
- Apogee Flow Systems Ltd. (UK)
- Creative Biolabs (US)
- Sphere Bio (UK)
- Yokogawa Electric Corporation (Japan)

Research Coverage:

This research report categorizes the single-cell analysis market by product {consumables [reagents, assay kits (immunoassays and cell-based assays), beads, microplates, and other consumables] and instruments (PCR instruments, NGS systems, flow cytometers, spectrophotometers, cell counters, microscopes, HCS systems, microarrays, and other instruments)}, cell type (human cells, animal cells, and microbial cells), technique (flow cytometry, next-generation sequencing, microscopy, polymerase chain reaction, mass spectrometry, and other techniques), application [research applications (cancer research, immunology research, neurology research, stem cell research, and other research applications) and medical applications (non-invasive prenatal diagnosis, in vitro fertilization, and circulating tumour cell detection)], end user (academic & research laboratories, biotechnology & pharmaceutical companies, hospitals & diagnostic laboratories, and cell banks & IVF centers), and region (North America, Europe, Asia Pacific, Latin America, the Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the single-cell analysis market. A thorough analysis of the key industry players has been done to provide insights into their business overview, products, key strategies, collaborations, partnerships, and agreements. Also, it includes new product launches, collaborations, acquisitions, and recent developments associated with the single-cell analysis market.

Key Benefits of Buying the Report:

The report will help market leaders and new entrants by providing the closest approximations of the revenue numbers for the overall single-cell analysis market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their businesses 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 (technological advancements in single-cell analysis products, the surge in cases of cancer, and increasing R&D in pharmaceutical & biotechnology industries for complex diseases), restraints (high cost of single-cell analysis products), opportunities (integration of microfluidics in single-cell analysis), and challenges (standardization of protocols and data integration & quality control for developing cell therapies) influencing the growth of the market
- Product Development/Innovation: Detailed insights on newly launched products of the single-cell analysis market
- Market Development: Comprehensive information about lucrative markets; the report analyzes the market across varied regions
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the single-cell analysis market
- Competitive Assessment: Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Merck KGaA (Germany), BD (US), Agilent Technologies, Inc. (US), QIAGEN (Netherlands), 10x Genomics (US), Illumina, Inc. (US), Bio-Rad Laboratories, Inc. (US), DiaSorin S.p.A. (Italy), Standard BioTools (US), Tecan Trading AG (Switzerland), Sartorius AG (Germany), Corning Incorporated (US), Cytex Biosciences (US), Takara Bio Inc. (Japan), bioMerieux (France), Revvity (US), Bio-Techne (US), PacBio (US), Bruker (US), Promega Corporation (US), Oxford Nanopore Technologies plc. (UK), The Menarini Group (Italy), Singleron Biotechnologies (Germany), BICO (Sweden), Fluent BioSciences (US), RareCyte, Inc. (US), Cell Microsystems (US), NanoCollect Biomedical (US), Apogee Flow Systems Ltd. (UK), Creative Biolabs (US) Sphere Bio (UK), and Yokogawa Electric Corporation (Japan)

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