

# **Flow Cytometry Market by Technology (Cell-based, Bead-based), Product & Service (Analyzer, Sorter, Consumables, Software), Application ((Research - Immunology, Stem cell), (Clinical - Hematology)), End User & Region - Global Forecast to 2028**

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## **Abstracts**

The global flow cytometry market is projected to reach USD 7.0 billion by 2028 from USD 4.7 billion in 2023, at a CAGR of 8.3% during the forecast period. The rising prevalence of HIV/AIDS, cancer & autoimmune diseases globally is rising adoption of flow cytometry for clinical applications are some of the major factors projecting segmental growth. Additionally, the launch of technologically advanced flow cytometry products by key market players is furthermore likely to propel the market growth. In November 2021, Bio-Rad Laboratories, Inc. (US) launched StarBright UltraViolet 400 Dye, fluorescent nanoparticles designed for use with a UV laser in flow cytometry applications.

“Cell-based flow cytometry anticipated to grow at significant CAGR during the forecast period of 2023-2028.”

Based on the technology, the flow cytometry market is cell-based and bead-based flow cytometry. Cell-based flow cytometry segment dominated the market in 2022. The dominance is attributable to the presence of technologically advanced cell-based flow cytometry products. Bead-based flow cytometry is likely to grow at a significant pace in the coming years. The rising adoption of bead-based flow cytometry and the strong emphasis of key market players on the launch of bead-based flow cytometers is likely to have a positive impact on the market growth.

“Research applications segment dominated the market in 2022.”

Based on the end user, the flow cytometry market is segmented into research applications, clinical applications, and industrial applications. The research application dominated the segment. However, clinical application is anticipated to grow at a significant CAGR during the forecast period. Industry-academia collaborations for clinical and research application is likely to impact positively on the market. For instance, in March 2023, BD and Agency for Science, Technology, and Research (A\*STAR), Singapore, extended a research partnership that will help focus on deep immunophenotyping of human tissues using spectral flow cytometry panels to bring forth discoveries that can be translated into positive healthcare outcomes.

“North America held the dominant share in 2022.”

Geographically, the flow cytometry market is segmented into North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. In 2022, North America accounted for the major share of the flow cytometry market. The dominance of the North American region is owing to various factors, such as the presence of key market players in the region and the increased adoption of flow cytometry in research applications in the region. Asia Pacific is expected to grow at a faster pace due to a rise in funding for research and the increased focus on stem cell and clinical research.

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

By Respondent: Supply Side- 70% and Demand Side 30%

By Designation: C-level - 45%, D-level - 30%, and Others - 25%

By Region: North America: 40%, Europe: 25%, Asia Pacific: 20%, Latin America: 10%, and the Middle East and Africa: 5%

List of Companies Profiled in the Report:

BD (US)

Danaher Corporation (US)

Thermo Fisher Scientific, Inc. (US)

Agilent Technologies, Inc. (US)

Sony Corporation (Japan)

Bio-Rad Laboratories, Inc. (US)

Miltenyi Biotec (Germany)

Enzo Biochem, Inc. (US)

Sysmex Corporation (Japan)

bioMérieux (France)

Cytonome/ST, LLC (US)

Sartorius AG (Germany)

Cytek Biosciences (US)

Union Biometrica, Inc. (US)

Luminex Corporation (Italy)

Apogee Flow Systems Ltd. (UK)

Stratedigm, Inc. (US)

NanoCollect Biomedical, Inc. (US)

On-chip Biotechnologies, Co., Ltd. (Japan)

Nexcelom Biosciences LLC. (US)

BennuBio Inc. (US)

Orflo Technologies (US)

Bay Biosciences Co., Ltd. (Japan)

BioLegend, Inc. (US)

CytoBuoy B.V (Netherlands)

#### Research Coverage:

This report provides a detailed picture of the flow cytometry market. It aims at estimating the size and future growth potential of the market across different segments such as technology, product & services, 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 (Rising incidence of HIV/AIDS and cancer, wide applications in research for drug discovery & development, use of flow cytometry in regenerative medicine, growing public-private initiatives in immunology and immuno-oncology research, technological advancements in flow cytometry instruments), restraints (High product pricing), opportunities (Emerging economies, rising focus on stem cell research, uptake of recombinant DNA technology for antibody production), and challenges (Complexities related to reagent development, shortage of skilled professionals) influencing the growth of the market.

Product and Service Development/Innovation: Detailed insights on newly launched products and technological assessment of the flow cytometry 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 flow cytometry market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and products offerings of leading players like BD (US), Danaher Corporation (US), Thermo Fisher Scientific, Inc. (US), Agilent Technologies, Inc. (US), Sony Corporation (Japan), Bio-Rad Laboratories, Inc. (US), Miltenyi Biotec (Germany), Enzo Biochem, Inc. (US), Sysmex Corporation (Japan), bioMérieux (France), Cytonome/ST, LLC (US), Sartorius AG (Germany), Cytex Biosciences (US), Union Biometrika, Inc. (US), Luminex Corporation (Italy), Apogee Flow Systems Ltd. (UK), Stratedigm, Inc. (US), NanoCelect Biomedical, Inc. (US), On-chip Biotechnologies, Co., Ltd. (Japan), Nexcelom Biosciences LLC. (US), BennuBio Inc. (US), Orflo Technologies (US), Bay Biosciences Co., Ltd. (Japan), BioLegend, Inc. (US), and CytoBuoy B.V (Netherlands).

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TABLE 461 FLOW CYTOMETRY MARKET: DEALS (JANUARY 2020?JUNE 2023)

#### 11.8.3 OTHER DEVELOPMENTS

TABLE 462 FLOW CYTOMETRY MARKET: OTHER DEVELOPMENTS (JANUARY 2020–APRIL 2023)

## 12 COMPANY PROFILES

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TABLE 463 BD: BUSINESS OVERVIEW

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#### 12.1.2 DANAHER CORPORATION

TABLE 464 DANAHER CORPORATION: BUSINESS OVERVIEW

FIGURE 37 DANAHER CORPORATION: COMPANY SNAPSHOT (2022)

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TABLE 465 THERMO FISHER SCIENTIFIC, INC.: BUSINESS OVERVIEW

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#### 12.1.4 AGILENT TECHNOLOGIES, INC.

TABLE 466 AGILENT TECHNOLOGIES, INC.: BUSINESS OVERVIEW

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TABLE 468 BIO-RAD LABORATORIES, INC.: BUSINESS OVERVIEW

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#### 12.1.7 MILTENYI BIOTEC

TABLE 469 MILTENYI BIOTEC: BUSINESS OVERVIEW

#### 12.1.8 ENZO BIOCHEM, INC.

TABLE 470 ENZO BIOCHEM, INC.: BUSINESS OVERVIEW

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#### 12.1.9 SYSMEX CORPORATION

TABLE 471 SYSMEX CORPORATION: BUSINESS OVERVIEW

FIGURE 43 SYSMEX CORPORATION: COMPANY SNAPSHOT (2022)



#### 12.1.10 BIOM?RIEUX

TABLE 472 BIOM?RIEUX: BUSINESS OVERVIEW

FIGURE 44 BIOM?RIEUX: COMPANY SNAPSHOT (2022)

#### 12.1.11 CYTONOME/ST, LLC.

TABLE 473 CYTONOME/ST, LLC.: BUSINESS OVERVIEW

#### 12.1.12 SARTORIUS AG

TABLE 474 SARTORIUS AG: BUSINESS OVERVIEW

FIGURE 45 SARTORIUS AG: COMPANY SNAPSHOT (2022)

#### 12.1.13 CYTEK BIOSCIENCES

TABLE 475 CYTEK BIOSCIENCES: BUSINESS OVERVIEW

FIGURE 46 CYTEK BIOSCIENCES: COMPANY SNAPSHOT (2022)

#### 12.1.14 UNION BIOMETRICA, INC.

TABLE 476 UNION BIOMETRICA, INC.: BUSINESS OVERVIEW

#### 12.1.15 LUMINEX CORPORATION (A DIASORIN COMPANY)

TABLE 477 DIASORIN S.P.A.: BUSINESS OVERVIEW

FIGURE 47 DIASORIN S.P.A.: COMPANY SNAPSHOT (2022)

\*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

### 12.2 OTHER PLAYERS

#### 12.2.1 APOGEE FLOW SYSTEMS LTD.

#### 12.2.2 STRATEDIGM, INC.

#### 12.2.3 NANOCELLECT BIOMEDICAL, INC.

#### 12.2.4 ON-CHIP BIOTECHNOLOGIES CO., LTD.

#### 12.2.5 NEXCELOM BIOSCIENCE LLC.

#### 12.2.6 BENNUBIO, INC.

#### 12.2.7 ORFLO TECHNOLOGIES

#### 12.2.8 BAY BIOSCIENCES LLC.

#### 12.2.9 CYTOBUOY B.V.

#### 12.2.10 BIOLEGEND, INC.

## 13 APPENDIX

### 13.1 DISCUSSION GUIDE

### 13.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

### 13.3 CUSTOMIZATION OPTIONS

### 13.4 RELATED REPORTS

### 13.5 AUTHOR DETAILS

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