

Global Automated Single-Cell Sample Preparation System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automated Single-Cell Sample Preparation System market size is expected to reach \$ 1715 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Automated single cell sample preparation systems are advanced life science automation platforms designed for single cell sequencing, single cell multiomics, and cellular analysis workflows. These systems are primarily used for tissue dissociation, single cell or single nucleus suspension preparation, cell isolation, microfluidic encapsulation, barcode labeling, library preparation, and upstream sample processing. Major product forms include droplet based microfluidic platforms, automated single cell library preparation systems, single cell dispensing instruments, tissue dissociation systems, and integrated multiomics preparation platforms. Core technologies involve microfluidic chips, droplet generation, acoustic dispensing, magnetic levitation separation, automated liquid handling, and combinatorial barcoding workflows. These systems are widely applied in oncology research, immunology, cell therapy, drug discovery, translational medicine, and spatial biology, where high cell viability, reproducibility, throughput, and contamination control are critical. In 2025, the global industry average gross margin was approximately 55% to 72%, while standard automated single cell preparation systems averaged about USD 50,000 to USD 250,000 per unit, and high end fully automated multiomics platforms averaged about USD 300,000 to USD 1.2 million per unit.

Automated single cell sample preparation systems are evolving from specialized research tools into critical infrastructure platforms for precision medicine and advanced life science research. Upstream activities mainly involve microfluidic chips, precision

fluid control components, automated motion systems, high sensitivity detection modules, and molecular reagent technologies. Midstream segments focus on single cell isolation, automated library preparation, droplet encapsulation, and multiomics workflow integration, while downstream demand is concentrated in oncology research, immunology, cell therapy, drug discovery, translational medicine, and spatial biology applications. As single cell workflows become increasingly complex, laboratories are placing greater emphasis on throughput, reproducibility, standardization, and contamination control, accelerating the transition from exploratory academic usage toward clinical and industrial adoption.

The competitive landscape remains dominated by North American and European suppliers, although Chinese manufacturers are rapidly improving their local platform capabilities and supply chain integration. Droplet based microfluidic systems continue to represent the dominant technology route, while acoustic dispensing, magnetic levitation separation, optoelectronic manipulation, and nanowell based partitioning technologies are expanding in niche applications. Industry consolidation, platform acquisitions, and ecosystem integration have become increasingly active in recent years, particularly as vendors seek to combine single cell workflows with spatial biology, AI driven analytics, and laboratory automation systems. At the same time, fluctuations in research funding and cautious laboratory capital expenditure have extended procurement cycles for high end instruments.

Future market expansion is expected to be driven by clinical research, pharmaceutical high throughput screening, translational medicine programs, and large scale cohort studies. Automated single nucleus preparation, spatial multiomics integration, closed loop library preparation, and clinically standardized workflows are becoming major technology directions, encouraging the industry to move toward higher throughput, lower sample loss, and more fully automated processing. North America is expected to remain the primary innovation and commercialization hub, Europe maintains strong expertise in microfluidics and precision dispensing technologies, and China is experiencing rapid growth through localization efforts, hospital research infrastructure expansion, and domestic supply chain development. Despite strong long term growth potential, the industry may gradually face substitution pressure in lower end workflows from low cost reagent solutions and general laboratory automation platforms.

This report studies the global Automated Single-Cell Sample Preparation System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automated

Single-Cell Sample Preparation System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automated Single-Cell Sample Preparation System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automated Single-Cell Sample Preparation System total production and demand, 2021-2032, (Units)

Global Automated Single-Cell Sample Preparation System total production value, 2021-2032, (USD Million)

Global Automated Single-Cell Sample Preparation System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Automated Single-Cell Sample Preparation System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Automated Single-Cell Sample Preparation System domestic production, consumption, key domestic manufacturers and share

Global Automated Single-Cell Sample Preparation System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Automated Single-Cell Sample Preparation System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Automated Single-Cell Sample Preparation System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Automated Single-Cell Sample Preparation System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 10x Genomics, Inc., BD Biosciences, Mission Bio, Inc., Dolomite Bio, Singleron Biotechnologies, Takara Bio Inc., S2 Genomics, Inc., Cellenion SASU, CYTENA GmbH, Sphere Fluidics Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automated Single-Cell Sample Preparation System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automated Single-Cell Sample Preparation System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automated Single-Cell Sample Preparation System Market, Segmentation by Type:

Single-cell Isolation Systems

Single-cell Library Preparation Systems

Single-cell Dispensing Systems

Tissue Dissociation and Nuclei Preparation Systems

Integrated Multiomics Preparation Platforms

Others

Global Automated Single-Cell Sample Preparation System Market, Segmentation by Technology Route:

Droplet-based Microfluidics

Microwell-based Systems

Acoustic Dispensing Systems

Optical and Electromagnetic Manipulation Systems

Magnetic Levitation-based Systems

Others

Global Automated Single-Cell Sample Preparation System Market, Segmentation by Throughput Level:

Low-throughput Systems (100,000 cells/run)

Others

Global Automated Single-Cell Sample Preparation System Market, Segmentation by Application:

Oncology Research

Immunology Research

Cell and Gene Therapy Research

Drug Discovery and Screening

Spatial Biology and Multiomics Research

Others

Companies Profiled:

10x Genomics, Inc.

BD Biosciences

Mission Bio, Inc.

Dolomite Bio

Singleron Biotechnologies

Takara Bio Inc.

S2 Genomics, Inc.

Cellenion SASU

CYTENA GmbH

Sphere Fluidics Limited

Berkeley Lights, Inc. (PhenomeX)

MGI Tech Co., Ltd.

Standard BioTools Inc.

LevitasBio

NanoCollect Biomedical

Beijing Bestopcell Medical Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Automated Single-Cell Sample Preparation System market?
2. What is the demand of the global Automated Single-Cell Sample Preparation System market?
3. What is the year over year growth of the global Automated Single-Cell Sample Preparation System market?
4. What is the production and production value of the global Automated Single-Cell Sample Preparation System market?
5. Who are the key producers in the global Automated Single-Cell Sample Preparation System market?
6. What are the growth factors driving the market demand?

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