

Global Cell Washing and Concentration System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Cell Washing and Concentration System market size was valued at US\$ 325 million in 2025 and is forecast to a readjusted size of US\$ 969 million by 2032 with a CAGR of 16.7% during review period.

A cell washing and concentration system is an automated processing device used in cell therapy, regenerative medicine, and cell process development. It reduces cell suspension volume, exchanges culture medium or buffer, removes residual reagents, and resuspends the final cell product through batch centrifugation, counterflow centrifugation, spinning membrane filtration, hollow fiber filtration, or tangential flow filtration. The system is typically used with closed single-use tubing sets, dedicated disposables, protocol software, and electronic batch records to replace manual centrifuge washing, reduce contamination risk and batch variation, and improve cell recovery, viability, process consistency, and GMP traceability; overall gross margin is approximately 55%.

Demand is mainly driven by process scale-up for CAR-T, TCR-T, NK cell, stem cell, iPSC-derived cell, and regenerative medicine products. Cell products require volume reduction, medium or buffer exchange, residual reagent removal, and high viability and recovery across collection, separation, expansion, transfection, harvest, media exchange, and pre-cryopreservation formulation. As clinical batches increase and commercial production advances, users are replacing manual centrifugation, open transfers, and repeated resuspension steps with closed automated systems to reduce contamination risk, operator variation, and quality-control burden.

Product development is moving toward gentler processing, higher recovery, single-use disposable compatibility, editable protocols, electronic batch records, and integration with upstream and downstream equipment. Counterflow centrifugation, spinning membrane, and hollow fiber filtration each have distinct advantages, while the supplier landscape includes life science tool companies, transfusion and cell processing equipment companies, and automated cell therapy platform providers. Leading vendors build barriers through validation data, disposable ecosystems, compliance software, and GMP customer references; new entrants usually start from specific volume ranges, cell types, or continuous-flow workflows.

North America and Europe are led by clinical translation and commercial capacity build-out, while Asia Pacific is growing quickly with local cell therapy pipelines, hospital-based processing centers, and CDMO expansion. Buyers focus on processing volume range, closure level, recovery, disposable cost, data integrity, and technology-transfer difficulty. Key risks include per-batch cost, consumable lock-in, process validation across different cell types, and regulatory documentation completeness; opportunities lie in modular equipment, local substitution, continuous processing, and integration with closed electroporation, magnetic selection, and automated filling systems.

This report is a detailed and comprehensive analysis for global Cell Washing and Concentration System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Cell Washing and Concentration System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cell Washing and Concentration System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cell Washing and Concentration System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average

selling prices (US\$/Unit), 2021-2032

Global Cell Washing and Concentration System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cell Washing and Concentration System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cell Washing and Concentration System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Cytiva, Fresenius Kabi, Sartorius, Miltenyi Biotec, Kaneka, Lonza, Cellares, EurekaBio, ThermoGenesis, etc.

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

Market Segmentation

Cell Washing and Concentration System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Batch Centrifugation Systems

Counterflow Centrifugation Systems

Spinning Membrane Filtration Systems

Hollow Fiber or Tangential Flow Filtration Systems

Acoustic or Microfluidic Washing Systems

Market segment by Processing Scale

Small-Volume Systems

Clinical-Batch Systems

Pilot-Scale Systems

Large-Scale Systems

Custom Modular Systems

Market segment by Closure and Automation Level

Manual Open Systems

Semi-Automated Systems

Functionally Closed Automated Systems

Fully Integrated Closed Systems

Market segment by Use Grade

Research-Use Systems

Process Development Systems

Clinical GMP Systems

Commercial Manufacturing Systems

Market segment by Application

Starting Material Washing

Intermediate Media Exchange

Post-Expansion Harvest

Residual Reagent Removal

Final Formulation

Other Process Development

Major players covered

Thermo Fisher Scientific

Cytiva

Fresenius Kabi

Sartorius

Miltenyi Biotec

Kaneka

Lonza

Cellares

EurekaBio

ThermoGenesis

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cell Washing and Concentration System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cell Washing and Concentration System, with price, sales quantity, revenue, and global market share of Cell Washing and Concentration System from 2021 to 2026.

Chapter 3, the Cell Washing and Concentration System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cell Washing and Concentration System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Cell Washing and Concentration System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cell Washing and Concentration System.

Chapter 14 and 15, to describe Cell Washing and Concentration System sales channel, distributors, customers, research findings and conclusion.

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