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Global Cell Washing and Concentration System Market Growth 2026-2032

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Abstracts

The global Cell Washing and Concentration System market size is predicted to grow from US$ 309 million in 2025 to US$ 972 million in 2032; it is expected to grow at a CAGR of 17.7% from 2026 to 2032.

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

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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.

LP Information, Inc. (LPI) ' newest research report, the “Cell Washing and Concentration System Industry Forecast” looks at past sales and reviews total world Cell Washing and Concentration System sales in 2025, providing a comprehensive analysis by region and market sector of projected Cell Washing and Concentration System sales for 2026 through 2032. With Cell Washing and Concentration System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Cell Washing and Concentration System industry.

This Insight Report provides a comprehensive analysis of the global Cell Washing and Concentration System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Cell Washing and Concentration System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Cell Washing and Concentration System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cell Washing and Concentration System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of

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bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cell Washing and Concentration System.

This report presents a comprehensive overview, market shares, and growth opportunities of Cell Washing and Concentration System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Batch Centrifugation Systems

Counterflow Centrifugation Systems

Spinning Membrane Filtration Systems

Hollow Fiber or Tangential Flow Filtration Systems

Acoustic or Microfluidic Washing Systems

Segmentation by Processing Scale:

Small-Volume Systems

Clinical-Batch Systems

Pilot-Scale Systems

Large-Scale Systems

Custom Modular Systems

Segmentation by Closure and Automation Level:

Manual Open Systems

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Semi-Automated Systems

Functionally Closed Automated Systems

Fully Integrated Closed Systems

Segmentation by Use Grade:

Research-Use Systems

Process Development Systems

Clinical GMP Systems

Commercial Manufacturing Systems

Segmentation by Application:

Starting Material Washing

Intermediate Media Exchange

Post-Expansion Harvest

Residual Reagent Removal

Final Formulation

Other Process Development

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Thermo Fisher Scientific

Cytiva

Fresenius Kabi

Sartorius

Miltenyi Biotec

Kaneka

Lonza

Cellares

EurekaBio

ThermoGenesis

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cell Washing and Concentration System market?

What factors are driving Cell Washing and Concentration System market

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growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Cell Washing and Concentration System market opportunities vary by end market size?

How does Cell Washing and Concentration System break out by Type, by Application?

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