

Automated Cell Culture Market Size, Share & Trends Analysis Report By Product Type (Instruments, Consumables), By Application (Drug Development, Biopharmaceutical Production), By End User, By Region, And Segment Forecasts, 2026 - 2033

<https://marketpublishers.com/r/A6741B5CA9CDEN.html>

Date: April 2026

Pages: 120

Price: US\$ 5,950.00 (Single User License)

ID: A6741B5CA9CDEN

Abstracts

The global automated cell culture market size was estimated at USD 21.4 billion in 2025 and is projected to reach USD 56.1 billion by 2033, growing at a CAGR of 13.2% from 2025 to 2033. The market growth is driven by rising demand for scalable, reproducible cell-based processes and increasing adoption of automation, supported by advancements in robotics and AI.

Expansion of Biologics & Cell/Gene Therapy Pipelines

The rapid expansion of biologics and advanced therapy pipelines, particularly monoclonal antibodies, vaccines, and cell and gene therapies, is a key driver for the automated cell culture industry. Biopharmaceutical companies are increasingly focusing on complex, cell-based products that require controlled and reproducible culture conditions. At the same time, the growing number of cell and gene therapy candidates in clinical development is driving demand for precise cell expansion and maintenance, which is difficult to achieve through manual processes.

As a result, automated cell culture systems are becoming essential for ensuring scalability, consistency, and process standardization. These platforms reduce variability, enable controlled environments, and support both small-batch personalized production and large-scale manufacturing. This is especially critical for patient-specific therapies, where accuracy and traceability are vital, thereby accelerating the adoption of automation in cell culture market.

Global Automated Cell Culture Market Report Segmentation

This report forecasts revenue growth and provides an analysis on the latest trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the automated cell culture market report based on product type, application, end user, and region:

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Product Type Outlook (Revenue, USD Million, 2021 - 2033)

Instruments

Consumables

Application Outlook (Revenue, USD Million, 2021 - 2033)

Drug development

Biopharmaceutical production

Cell & gene therapy manufacturing

Tissue Culture & Engineering

Toxicity Testing

Other Applications

End User Outlook (Revenue, USD Million, 2021 - 2033)

Pharmaceutical & biotech companies

Academic & research institutes

Hospitals & diagnostic labs

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

MEA

South Africa

Saudi Arabia

UAE

Kuwait

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