

Global 3D Cell Culture Market Growth 2025-2031

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Abstracts

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The global 3D Cell Culture market size is predicted to grow from US\$ 553 million in 2025 to US\$ 1137 million in 2031; it is expected to grow at a CAGR of 12.8% from 2025 to 2031.

A 3D cell culture is an artificially-created environment in which biological cells are permitted to grow or interact with their surroundings in all three dimensions. Unlike 2D environments (e.g. a petri dish), a 3D cell culture allows cells in vitro to grow in all directions, similar to how they would in vivo. These three-dimensional cultures are usually grown in bioreactors, small capsules in which the cells can grow into spheroids, or 3D cell colonies. Approximately 300 spheroids are usually cultured per bioreactor.

The 3D Cell Culture industry can be broken down into several segments, Scaffold-based, Scaffold-free, Microchips, etc.

Across the world, the major players cover Thermo Fisher Scientific, Corning, Greiner Bio-One, Merck, Lonza Group, Emulate, TissUse, CN Bio, TARA Biosystems, Mimetas, Nortis, etc.

Global core 3D cell culture manufacturers include Thermo Fisher Scientific, Corning, Merck etc. The top 3 companies hold a share about 60%. North America is the largest market, with a share about 40%, followed by Europe and Asia Pacific with the share about 30% and 20%. In terms of product, scaffold-based is the largest segment, with a share over 60%. And in terms of application, the largest application is efficacy vs. toxicology testing, followed by leading models.

LP Information, Inc. (LPI) ' newest research report, the "3D Cell Culture Industry

Forecast” looks at past sales and reviews total world 3D Cell Culture sales in 2024, providing a comprehensive analysis by region and market sector of projected 3D Cell Culture sales for 2025 through 2031. With 3D Cell Culture sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 3D Cell Culture industry.

This Insight Report provides a comprehensive analysis of the global 3D Cell Culture 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 3D Cell Culture portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global 3D Cell Culture market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Cell Culture 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 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 3D Cell Culture.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Cell Culture market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Scaffold-based

Scaffold-free

Microchips

Segmentation by Application:

Efficacy vs. Toxicology Testing

Leading Models

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

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

Corning

Merck

Greiner Bio-One

Lonza Group

Emulate

TissUse

CN Bio

TARA Biosystems

Mimetas

Nortis

Reprocell Incorporated

Jet Bio-Filtration

InSphero AG

3D Biotek

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D Cell Culture market?

What factors are driving 3D Cell Culture market growth, globally and by region?

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

How do 3D Cell Culture market opportunities vary by end market size?

How does 3D Cell Culture break out by Type, by Application?

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