

Global Cell Potency Testing Panel 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 Potency Testing Panel market size was valued at US\$ 366 million in 2025 and is forecast to a readjusted size of US\$ 1025 million by 2032 with a CAGR of 15.5% during review period.

Cell potency testing panels are integrated reagent, antibody, cytokine/chemokine multiplex or assay-panel solutions designed around key functional attributes of cell therapy products. They are used to evaluate killing activity, cytokine release, activation or exhaustion status, proliferation and viability, differentiation capacity and mechanism-related readouts for CAR-T, TCR-T, NK, MSC and iPSC-derived cells. Products are typically selected by compatibility with flow cytometry, multiplex immunoassay, ELISA, luminescence, real-time impedance or live-cell imaging platforms, with emphasis on lot consistency, low sample input, validation readiness and GMP QC suitability, with an estimated gross margin of around 62%.

Demand for cell potency testing panels is driven by cell therapy R&D, process scale-up and commercial release testing. As CAR-T, TCR-T, NK, MSC and iPSC-derived cell programs move into multicenter trials and commercial manufacturing, developers need to convert research-stage functional assays into reproducible, validatable and batch-comparable QC methods. Cell killing, cytokine release, activation or exhaustion, proliferation and viability, and differentiation function are the core purchasing and method-development readouts.

On the supply side, the market is moving from single ELISA kits and flow antibody mixes toward multiplex, low-sample-input, automated and platform-linked panel solutions. Leading suppliers build ecosystems around flow cytometry, multiplex

immunoassays, microfluidic immunoassays, luminescent assays and real-time impedance or imaging platforms. Differentiation is mainly based on analyte selection, sensitivity, dynamic range, calibrator systems, software templates, 21 CFR Part 11 support and validation packages for GMP environments.

The sizing estimate uses cell and gene therapy QC and analytics, cell functional analysis and bioanalytical testing services as upper-level anchors, then excludes instruments, services and general research reagents to retain packaged panels, matched reagents and validatable assay combinations for potency-related readouts. Regional demand is still led by cell therapy companies, CDMOs, CROs and research hospitals in North America and Europe, while Asia-Pacific growth is supported by local cell therapy pipelines and release-testing infrastructure; key risks include product-specific mechanisms, limited universal reference standards, long method validation cycles and instrument platform lock-in.

Report Scope

This report is a detailed and comprehensive analysis for global Cell Potency Testing Panel 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 Potency Testing Panel market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cell Potency Testing Panel 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 Potency Testing Panel 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 Potency Testing Panel 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 Potency Testing Panel

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 Potency Testing Panel 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, Bio-Techne, Promega, BD Biosciences, Bio-Rad, Miltenyi Biotec, Sartorius, Agilent Technologies, Meso Scale Discovery, BioLegend, etc.

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

Market Segmentation

Cell Potency Testing Panel 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

Cytokine Release Panels

Cytotoxicity Panels

Cell Activation Panels

Differentiation and Lineage Panels

Proliferation and Viability Panels

Immune Phenotyping Panels

Market segment by Detection Platform

Flow Cytometry Panels

Multiplex Immunoassay Panels

ELISA and Microfluidic Immunoassay Panels

Reporter Gene Bioassay Panels

Luminescent Viability and Cytotoxicity Panels

Real-Time Impedance and Imaging Panels

Market segment by Cell Therapy Type

CAR-T and TCR-T Potency Panels

NK and CAR-NK Potency Panels

MSC Potency Panels

iPSC-Derived Cell Potency Panels

Dendritic and Immune Cell Potency Panels

Other Cell Therapy Potency Panels

Market segment by Validation Level

Research Use Only Panels

Translational and Process Development Panels

GMP QC and Release Testing Panels

Stability and Comparability Testing Panels

Custom Validated Panels

Market segment by Application

Discovery and Assay Development

Process Development and Optimization

In-Process Monitoring

Lot Release Testing

Stability and Comparability Studies

Other Applications

Major players covered

Thermo Fisher Scientific

Bio-Techne

Promega

BD Biosciences

Bio-Rad

Miltenyi Biotec

Sartorius

Agilent Technologies

Meso Scale Discovery

BioLegend

Beckman Coulter Life Sciences

ACROBiosystems

Abcam

Rewvity

Cellular Technology

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)

Chapter Outline

Chapter 1, to describe Cell Potency Testing Panel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cell Potency Testing Panel, with price,

sales quantity, revenue, and global market share of Cell Potency Testing Panel from 2021 to 2026.

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

Chapter 4, the Cell Potency Testing Panel 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 Potency Testing Panel 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 Potency Testing Panel.

Chapter 14 and 15, to describe Cell Potency Testing Panel sales channel, distributors, customers, research findings and conclusion.

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