

# Global In vitro Micronucleus Test Market Growth (Status and Outlook) 2025-2031

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## Abstracts

According to this study, the global In vitro Micronucleus Test market size will reach US\$ 159 million by 2031.

The in vitro micronucleus test is a cytotoxicity and genotoxicity assay used to detect DNA damage in eukaryotic cells by assessing the formation of micronuclei—small, membrane-bound structures containing fragmented or whole chromosomes that fail to segregate properly during cell division. Conducted in vitro (using cultured cells, such as mammalian cell lines or human peripheral blood lymphocytes), the test involves exposing cells to a test substance (e.g., chemicals, pharmaceuticals, nanoparticles) under both metabolic activation (using S9 liver homogenate to mimic in vivo biotransformation) and non-activation conditions. After incubation, cells are fixed, stained, and analyzed microscopically to quantify micronucleus frequency in interphase or mitotic cells. An increase in micronuclei compared to negative controls indicates potential clastogenic (chromosome-breaking) or aneugenic (chromosome-segregation-disrupting) effects, making this test critical for assessing the genotoxic potential of compounds in regulatory toxicology, drug development, and environmental hazard screening.

United States market for In vitro Micronucleus Test is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for In vitro Micronucleus Test is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for In vitro Micronucleus Test is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key In vitro Micronucleus Test players cover Charles River Laboratories, Intertek, Xenometrix, Evotec, Eurofins, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LPI (LP Information)' newest research report, the “In vitro Micronucleus Test Industry Forecast” looks at past sales and reviews total world In vitro Micronucleus Test sales in 2024, providing a comprehensive analysis by region and market sector of projected In vitro Micronucleus Test sales for 2025 through 2031. With In vitro Micronucleus Test sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world In vitro Micronucleus Test industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for In vitro Micronucleus Test 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 In vitro Micronucleus Test.

This report presents a comprehensive overview, market shares, and growth opportunities of In vitro Micronucleus Test market by product type, application, key players and key regions and countries.

Segmentation by Type:

Mammalian Cell Lines

Primary Cells

Others

Segmentation by Application:

Pharmaceuticals

Agrochemical/Chemical

Cosmetics

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

Charles River Laboratories

Intertek

Xenometrix

Evotec

Eurofins

SGS

Nuvisan

Aurigene

QPS Holdings

InVitro Research Solutions

CD Formulation

Wuxi Apptec

Xishan Zhongke

Pharmaron

WestChina-Frontier PharmaTech Co., Ltd.

Frontage Labs

Xinbo

cas-test

Kerbio

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