

Global Biological Safety Testing Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Biological Safety Testing market size was valued at USD 2657 million in 2023 and is forecast to a readjusted size of USD 5026.4 million by 2030 with a CAGR of 9.5% during review period.

Biological safety testing is carried out to ensure non-contamination of biopharmaceuticals and vaccines and to comply with regulations regarding the same. It is a major step towards the launch of innovative biopharmaceutical products. Biological safety testing is essential to ensure product safety, and ensure the quality of biopharmaceutical products. It is conducted to ensure that the drug-producing microbes or cells are free from microbial or viral pathogens, for process validation of virus inactivation, clearance capability during biopharmaceutical production, and to test these biological materials during biopharmaceutical production for verifying the identity and characteristics. In addition, it is also used to ensure the purity, sterility, and genetic stability of the production cell bank. Bioburden testing, sterility testing, adventitious agent's detection test, cell line authentication and characterization tests, endotoxin tests, and residual host contaminant detection tests are the major biological safety tests. Biological safety testing is used in vaccine, cellular, and gene therapy products, blood and blood products, tissue and tissue products, and stem cell products. It is performed by contract testing laboratories on the behalf of drug developers. These laboratories are confronted with a number of ethical issues and tasked with maintaining confidentiality in handling the results.

Rising need for biologics has resulted in unprecedented growth in number of biopharmaceutical companies. This increasing competition to develop therapeutically

advanced drugs on a large scale has compelled manufacturers to improve on aspects such as productivity, cost efficiency, and deviations. Companies are thus implementing good manufacturing practices involving thorough biological testing at various levels of production cycles, thereby contributing toward market growth. Rising number of government initiatives to promote biological safety testing products is anticipated to drive overall market growth over the coming years. High microbial contamination rates and bioburden during pharmaceutical and biologics manufacturing are expected to drive government and private organizations to improve underlying biological safety practices. Moreover, presence of regulatory authorities to enforce significant safety standards is anticipated to provide boost adoption of testing tools. Stringent guidelines and recommendations laid down by these authorities increases incorporation of these tools by quality assurance technicians, thus providing a significant boost to the overall industry.

The Global Info Research report includes an overview of the development of the Biological Safety Testing industry chain, the market status of Vaccine Development (Instruments, Services), Blood Products (Instruments, Services), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Biological Safety Testing.

Regionally, the report analyzes the Biological Safety Testing markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Biological Safety Testing market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Biological Safety Testing market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Biological Safety Testing industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Instruments, Services).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Biological Safety Testing market.

Regional Analysis: The report involves examining the Biological Safety Testing market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Biological Safety Testing market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Biological Safety Testing:

Company Analysis: Report covers individual Biological Safety Testing players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Biological Safety Testing This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Vaccine Development, Blood Products).

Technology Analysis: Report covers specific technologies relevant to Biological Safety Testing. It assesses the current state, advancements, and potential future developments in Biological Safety Testing areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Biological Safety Testing market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Biological Safety Testing market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Instruments

Services

Kits & Reagents

Market segment by Application

Vaccine Development

Blood Products

Stem Cell Research

Market segment by players, this report covers

Thermo Fisher Scientific

Charles River Laboratories International

Merck

Lonza Group

Avance Biosciences

SGS

Toxikon

NuAire

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Biological Safety Testing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Biological Safety Testing, with revenue, gross margin and global market share of Biological Safety Testing from 2019 to 2024.

Chapter 3, the Biological Safety Testing competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Biological Safety Testing market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Biological Safety Testing.

Chapter 13, to describe Biological Safety Testing research findings and conclusion.

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