

Early Toxicity Testing Market by Technique (In Vivo, In Vitro, and In Silico), and End User (Pharmaceuticals Industry, Food Industry, Chemicals Industry, Cosmetics Industry, and Others): Global Opportunity Analysis and Industry Forecast, 2018–2025

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Abstracts

The early toxicity testing market accounted for \$739 million in 2017, and is expected to reach \$1,301 million by 2025, registering a CAGR of 7.3% from 2018 to 2025.

The degree of threat posed by a chemical substance to the living organism is defined as toxicity. The branch of science that deals with measurement and further analysis of the adverse effects caused by these chemical substances on the body of an organism is called as toxicology. Toxicity testing of chemical substances is performed to select a potential drug candidate for development of newer molecules. Early toxicity is essential as it is the major reason for the failure of potential drug candidates in the later stages of drug development leading to huge financial loss to companies. Therefore, early toxicity testing is carried out at preclinical stages of a drug development process. Moreover, companies perform early toxicity testing to comply with the government standards to market the drug. There are different techniques such as in vivo, in vitro, and in silico that are employed for testing drug to monitor early toxicity associated with them. Different toxicity tests such as ocular toxicity, carcinogenicity, systemic toxicity, and others are performed using these techniques.

Major factors that drive the market growth are surge in the R&D activities and increase in stringency of regulatory authorities concerning public healthcare welfare. In addition, technological advancements in in vitro techniques, rise in adoption of in vitro models in early toxicity testing industry across the globe, and surge in adoption of early toxicity testing further boost the market growth. However, limitations associated with preclinical

testing hamper the market growth. Furthermore, the technological advancements related to early toxicity testing provide lucrative opportunities for the market growth during the forecast period.

This report segments the global early toxicity testing market on the basis of technique, end user, and region to provide a detailed assessment of the market. Based on technique, the market is divided into in vivo, in vitro, and in silico. The market on the basis of in vitro is further divided into in vitro toxicity testing market by assays and in vitro toxicity testing market by toxicity endpoints. The in vitro toxicity testing market by assays is further segmented into enzyme toxicity assays, bacterial toxicity assays, cell-based ELISA & western blots, receptor binding assays, and other assays. The in vitro toxicity testing market by toxicity endpoints is further divided into dermal toxicity, systemic toxicity, carcinogenicity, ocular toxicity, skin sensitization and irritation, neurotoxicity, organ toxicity, and other toxicity endpoints.

On the basis of end user, the market is segmented into pharmaceutical industry, food industry, chemicals industry, cosmetics industry, and other industry. Region wise, the market is studied across different regions such as North America (U.S., Canada and Mexico), Europe (Germany, France, the UK, and rest of Europe), Asia-Pacific (China, Japan, India, Australia, and rest of Asia-Pacific), and LAMEA (Brazil, South Africa and rest of LAMEA).

KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the global early toxicity testing market along with the current trends and future estimations to elucidate the imminent investment pockets.

A quantitative analysis from 2017 to 2025 is discussed to enable the stakeholders to capitalize on the prevailing market opportunities.

In-depth analysis of early toxicity testing techniques such as in vivo, in vitro, and in silico is carried out in the report.

The profiles and growth strategies of the key players are thoroughly analyzed to understand the competitive outlook of the global market.

KEY MARKET SEGMENTS

By Technique

In Vivo

In Vitro

In Vitro Toxicity Testing Market by Assays

Enzyme Toxicity Assays

Bacterial Toxicity Assays

Cell-Based ELISA and Western Blots

Tissue Culture Assays

Receptor Binding Assays

Other Assays

In Vitro Toxicity Testing Market by Toxicity Endpoints

Dermal Toxicity

Systemic Toxicity

Carcinogenicity

Ocular Toxicity

Skin Sensitization and Irritation

Genotoxicity

Neurotoxicity

Organ Toxicity

Other Toxicity Endpoints

In Silico

By End User

Pharmaceuticals Industry

Food Industry

Chemicals Industry

Cosmetics Industry

Other Industries

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Rest of Europe

Asia-Pacific

India

China

Japan

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Rest of LAMEA

LIST OF KEY PLAYERS PROFILED IN THE REPORT

Agilent Technologies, Inc.

General Electric Company (GE Healthcare)

Danaher Corporation (Beckman Coulter, Inc.)

Evotec AG (Cyprotex)

Bioanalytical Systems, Inc.

Bruker Corporation

Thermo Fisher Scientific, Inc.

PerkinElmer Inc.

Enzo Biochem, Inc. (Enzo Clinical Labs, Inc.)

Myriad Genetics, Inc. (Myriad RBM.)

LIST OF OTHER PLAYERS IN THE VALUE CHAIN (These players are not profiled in the report. The same will be included on request)

Randox Toxicology

Geneva Laboratories, Inc.

Advanced Chemistry Development (ACD/Labs)

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FIGURE 49. ENZO: REVENUE SHARE BY REGION, 2018 (%)

FIGURE 50. GE HEALTHCARE: NET SALES, 2016–2018 (\$MILLION)

FIGURE 51. GE HEALTHCARE: REVENUE SHARE BY SEGMENT, 2018 (%)

FIGURE 52. GE HEALTHCARE: REVENUE SHARE BY REGION, 2018 (%)

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FIGURE 54. MYRIAD: REVENUE SHARE, BY SEGMENT, 2018 (%)

FIGURE 55. PERKINELMER: NET SALES, 2016–2018 (\$MILLION)

FIGURE 56. PERKINELMER: REVENUE SHARE BY SEGMENT, 2018 (%)

FIGURE 57. PERKINELMER: REVENUE SHARE BY REGION, 2018 (%)

FIGURE 58. THERMO FISHER SCIENTIFIC: REVENUE, 2016–2018 (\$MILLION)

FIGURE 59. THERMO FISHER SCIENTIFIC: REVENUE SHARE, BY SEGMENT, 2018 (%)

FIGURE 60. THERMO FISHER SCIENTIFIC: REVENUE SHARE BY REGION, 2018 (%)

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