

Early Toxicity Testing Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/E3C5323F44C2EN.html>

Date: September 2023

Pages: 149

Price: US\$ 2,499.00 (Single User License)

ID: E3C5323F44C2EN

Abstracts

Market Overview:

The global early toxicity testing market size reached US\$ 1.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1.9 Billion by 2028, exhibiting a growth rate (CAGR) of 8.2% during 2023-2028.

Early toxicity testing of new compounds is used to develop drugs and the extension of the therapeutic potential of existing molecules. It is carried out at pre-clinical stages on various biological systems to investigate the species, organs, and dose-specific toxic effects of a product. It can be performed in multiple ways, including in vivo on animals, in vitro in laboratories using assays, and in silico on a computer. It is also utilized for studying accidental exposures to a substance. Nowadays, the high-cost impact of late-stage failures of drug candidates is encouraging pharma companies to conduct early toxicity testing on investigational products.

Early Toxicity Testing Market Trends:

Exposure to toxic chemicals occurs through skin contact, oral intake, or inhalation. Therefore, early toxicity testing has become a crucial process in various industrial applications for determining the degree of toxicity in products and ensuring that they are safe for human consumption and the environment. For example, it is extensively utilized in the food and beverage (F&B) industry to identify the adverse effects and characterize potential toxicants in products. Moreover, the rising prevalence of diseases and the requirement of novel drugs and biological products are encouraging the adoption of early toxicity testing to prevent the failure of candidate drugs at clinical trials. In addition, stringent regulations relating to public health welfare imposed by regulatory authorities

are positively influencing the demand for early toxicity testing to determine the viability of drugs required for regulatory approval. Apart from this, the increasing usage of pesticides can pose risks to human health, which is promoting the use of early toxicity testing in the agriculture industry. Furthermore, the escalating demand for cosmetic products is expanding the application of early toxicity testing of cosmetic ingredients worldwide.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global early toxicity testing market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technique and end user.

Breakup by Technique:

- In Vivo
- In Vitro
- In Silico

Breakup by End User:

- Pharmaceuticals Industry
- Food Industry
- Chemicals Industry
- Cosmetics Industry
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Bio-Rad Laboratories Inc., Bruker Corporation, Charles River Laboratories International Inc., Danaher Corporation, Enzo Biochem Inc., Eurofins Scientific SE, Evotec A.G., Merck KGaA, PerkinElmer Inc., SGS S.A., Thermo Fisher Scientific Inc. and WuXi AppTec.

Key Questions Answered in This Report:

How has the global early toxicity testing market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global early toxicity testing market?

What are the key regional markets?

What is the breakup of the market based on the technique?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global early toxicity testing market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

2.1 Objectives of the Study

2.2 Stakeholders

2.3 Data Sources

2.3.1 Primary Sources

2.3.2 Secondary Sources

2.4 Market Estimation

2.4.1 Bottom-Up Approach

2.4.2 Top-Down Approach

2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

4.1 Overview

4.2 Key Industry Trends

5 GLOBAL EARLY TOXICITY TESTING MARKET

5.1 Market Overview

5.2 Market Performance

5.3 Impact of COVID-19

5.4 Market Forecast

6 MARKET BREAKUP BY TECHNIQUE

6.1 In Vivo

6.1.1 Market Trends

6.1.2 Market Forecast

6.2 In Vitro

6.2.1 Market Trends

6.2.2 Market Forecast

6.3 In Silico

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY END USER

7.1 Pharmaceuticals Industry

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Food Industry

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Chemicals Industry

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Cosmetics Industry

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

- 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 SWOT ANALYSIS

9.1 Overview

9.2 Strengths

9.3 Weaknesses

9.4 Opportunities

9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Agilent Technologies Inc.

13.3.1.1 Company Overview

- 13.3.1.2 Product Portfolio
- 13.3.1.3 Financials
- 13.3.1.4 SWOT Analysis
- 13.3.2 Bio-Rad Laboratories Inc.
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
- 13.3.3 Bruker Corporation
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 Financials
 - 13.3.3.4 SWOT Analysis
- 13.3.4 Charles River Laboratories International Inc.
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
- 13.3.5 Danaher Corporation
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
- 13.3.6 Enzo Biochem Inc.
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 Financials
 - 13.3.6.4 SWOT Analysis
- 13.3.7 Eurofins Scientific SE
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 Evotec A.G.
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9 Merck KGaA
 - 13.3.9.1 Company Overview

- 13.3.9.2 Product Portfolio
- 13.3.9.3 Financials
- 13.3.10 PerkinElmer Inc.
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
- 13.3.11 SGS S.A.
 - 13.3.11.1 Company Overview
 - 13.3.11.2 Product Portfolio
 - 13.3.11.3 Financials
- 13.3.12 Thermo Fisher Scientific Inc.
 - 13.3.12.1 Company Overview
 - 13.3.12.2 Product Portfolio
 - 13.3.12.3 Financials
 - 13.3.12.4 SWOT Analysis
- 13.3.13 WuXi AppTec
 - 13.3.13.1 Company Overview
 - 13.3.13.2 Product Portfolio
 - 13.3.13.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Early Toxicity Testing Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Early Toxicity Testing Market Forecast: Breakup by Technique (in Million US\$), 2023-2028

Table 3: Global: Early Toxicity Testing Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 4: Global: Early Toxicity Testing Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Early Toxicity Testing Market: Competitive Structure

Table 6: Global: Early Toxicity Testing Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Early Toxicity Testing Market: Major Drivers and Challenges

Figure 2: Global: Early Toxicity Testing Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Early Toxicity Testing Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Early Toxicity Testing Market: Breakup by Technique (in %), 2022

Figure 5: Global: Early Toxicity Testing Market: Breakup by End User (in %), 2022

Figure 6: Global: Early Toxicity Testing Market: Breakup by Region (in %), 2022

Figure 7: Global: Early Toxicity Testing (In Vivo) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 8: Global: Early Toxicity Testing (In Vivo) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 9: Global: Early Toxicity Testing (In Vitro) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Early Toxicity Testing (In Vitro) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Early Toxicity Testing (In Silico) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Early Toxicity Testing (In Silico) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Early Toxicity Testing (Pharmaceuticals Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Early Toxicity Testing (Pharmaceuticals Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Early Toxicity Testing (Food Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Early Toxicity Testing (Food Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Early Toxicity Testing (Chemicals Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Early Toxicity Testing (Chemicals Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Early Toxicity Testing (Cosmetics Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Early Toxicity Testing (Cosmetics Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Early Toxicity Testing (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Early Toxicity Testing (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: North America: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: North America: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: United States: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: United States: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Canada: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Canada: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Asia-Pacific: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Asia-Pacific: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: China: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: China: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Japan: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Japan: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: India: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: India: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: South Korea: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: South Korea: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Australia: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Australia: Early Toxicity Testing Market Forecast: Sales Value (in Million

US\$), 2023-2028

Figure 41: Indonesia: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Indonesia: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Others: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Others: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Europe: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Europe: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Germany: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Germany: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: France: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: France: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: United Kingdom: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: United Kingdom: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Italy: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Italy: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Spain: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Spain: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Russia: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Russia: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Others: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Others: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Latin America: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Latin America: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Brazil: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Brazil: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Mexico: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Mexico: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Middle East and Africa: Early Toxicity Testing Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Middle East and Africa: Early Toxicity Testing Market: Breakup by Country (in %), 2022

Figure 71: Middle East and Africa: Early Toxicity Testing Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Global: Early Toxicity Testing Industry: SWOT Analysis

Figure 73: Global: Early Toxicity Testing Industry: Value Chain Analysis

Figure 74: Global: Early Toxicity Testing Industry: Porter's Five Forces Analysis

I would like to order

Product name: Early Toxicity Testing Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/E3C5323F44C2EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E3C5323F44C2EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

