

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

<https://marketpublishers.com/r/P50DE57C0B9FEN.html>

Date: November 2023

Pages: 141

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

ID: P50DE57C0B9FEN

Abstracts

The global pyrogen testing market size reached US\$ 1.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.2 Billion by 2028, exhibiting a growth rate (CAGR) of 10.63% during 2022-2028.

Pyrogen testing is conducted to detect both endotoxin and non-endotoxin pyrogenic contaminants in aqueous parenteral. It assists in ensuring the safety of the parenteral pharmaceutical product and medical device and avoiding life-threatening diseases and fatal endotoxic shock induced by pyrogenic substances. Some of the commonly utilized methods of pyrogen testing include limulus amoebocyte lysate (LAL) test, recombinant factor C (rFC) test, rabbit pyrogen test (RPT), and monocyte activation test (MAT). At present, its demand is escalating across the globe as it is robust, sensitive, and scalable.

Pyrogen Testing Market Trends:

The flourishing pharmaceutical and biotechnology industries around the world represent one of the key factors bolstering the growth of the market. Pyrogen testing finds extensive applications in these industries for the safe development and release of infection-free products at a cost-effective price. It is also utilized for determining microbes or the presence of metabolites in drugs during the manufacturing process. Moreover, the testing aids in improving the management of infectious diseases by determining the disease severity, recovery, and sequelae. As a result, it is employed in the production of coronavirus disease (COVID-19) vaccines worldwide. This, along with the increasing prevalence of chronic ailments, such as heart diseases, cancer, and diabetes, is positively influencing the market. Furthermore, leading players are introducing technologically advanced and cost-effective pyrogen testing techniques that

provide a more relevant prediction of pyrogenic activity compared to the traditional methods, which is creating a favorable market outlook. Besides this, the launch of the new therapeutics and continuous funding of research and development (R&D) activities by manufacturing companies and governing agencies of numerous countries is acting as another major growth-inducing factor.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global pyrogen testing market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product, test type and application.

Breakup by Product:

- Instruments
- Kits and Reagents
- Services

Breakup by Test Type:

- In-vitro Tests
- LAL Tests
- Rabbit Tests
- Others

Breakup by Application:

- Pharmaceutical and Biologics
- Medical Devices
- 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 Charles River Laboratories International Inc., Ellab A/S, Fujifilm Wako Pure Chemical Corporation (Fujifilm Holdings Corporation), Lonza Group AG, Merck KGaA, Microcoat Biotechnologie GmbH, Nelson Laboratories LLC (Sotera Health), North American Science Associates Inc., Pacific Biolabs Inc., Sanquin, Thermo Fisher Scientific Inc, Toxikon Corporation and Wuxi Apptec.

Key Questions Answered in This Report:

How has the global pyrogen 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 pyrogen testing market?

What are the key regional markets?

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

What is the breakup of the market based on the test type?

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

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 pyrogen testing market and who are the key players?

What is the degree of competition in the industry?

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