

# Global Blood Irradiation Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Blood Irradiation market size was valued at USD 44500 million in 2023 and is forecast to a readjusted size of USD 60550 million by 2030 with a CAGR of 4.5% during review period.

Irradiation of human blood is used to avoid the TA-GVHD (transfusion-associated graft-versus-host-disease), a rare but devastating adverse effect of leukocytes present in blood component for immunocompetent transfusion recipients.

It is worth noting that cesium and X-ray irradiators are devices dedicated to blood irradiation, usually operated by specialized institutions or departments external to the healthcare facilities that are actually using the irradiated blood (and thus have to purchase it from the irradiation service providers); in contrast, many user facilities already have LINACs and cobalt sources for cancer therapy and other treatments. These units, although they are designed for other purposes, can be used for blood irradiation on a limited basis. For example, a blood bag holder can be placed where a patient would be exposed and the LINAC operated to irradiate the blood instead of a person.

Global Blood Irradiation key players include Best Theratronics, Hitaci, Gilardoni, Gamma-Service, etc. Global top four manufacturers hold a share about 70%.

North America is the largest market, with a share over 35%, followed by Europe, and Japan, both have a share about 40 percent.

In terms of product, Gamma-ray Blood Irradiation is the largest segment, with a share

over 50%. And in terms of application, the largest application is Blood Bank, followed by Hospital, Research Institutions.

The Global Info Research report includes an overview of the development of the Blood Irradiation industry chain, the market status of Blood Bank (X-ray Blood Irradiation, Gamma-ray Blood Irradiation), Hospital (X-ray Blood Irradiation, Gamma-ray Blood Irradiation), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Blood Irradiation.

Regionally, the report analyzes the Blood Irradiation 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 Blood Irradiation market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Blood Irradiation 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 Blood Irradiation 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 sales quantity (Units), revenue generated, and market share of different by Type (e.g., X-ray Blood Irradiation, Gamma-ray Blood Irradiation).

**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 Blood Irradiation market.

**Regional Analysis:** The report involves examining the Blood Irradiation 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 Blood Irradiation market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Blood Irradiation:

**Company Analysis:** Report covers individual Blood Irradiation manufacturers, 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 Blood Irradiation. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Blood Bank, Hospital).

**Technology Analysis:** Report covers specific technologies relevant to Blood Irradiation. It assesses the current state, advancements, and potential future developments in Blood Irradiation areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Blood Irradiation 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

Blood Irradiation 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 volume and value.

### Market segment by Type

X-ray Blood Irradiation

Gamma-ray Blood Irradiation

### Market segment by Application

Blood Bank

Hospital

Research Institutions

#### Major players covered

Best Theratronics

Hitaci

Gilardoni

Gamma-Service

Cegelec

Rad Source

JL SHEPHERD & ASSOCIATES

Shinva Medical

NPIC

CIF medical

#### Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Blood Irradiation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Blood Irradiation, with price, sales, revenue and global market share of Blood Irradiation from 2019 to 2024.

Chapter 3, the Blood Irradiation competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Blood Irradiation breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Blood Irradiation market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Blood Irradiation.

Chapter 14 and 15, to describe Blood Irradiation sales channel, distributors, customers, research findings and conclusion.

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