

Global Blood Irradiation Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Blood Irradiation market size is expected to reach \$ 132 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

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.

The primary drivers of the blood irradiation market is the rising prevalence of immune-compromised conditions, such as cancer, organ transplant, and autoimmune diseases. These conditions often require blood transfusions, where blood irradiation can prevent transfusion-associated graft-versus-host disease (TA-GVHD). Additionally, advancements in blood irradiation technology and increased healthcare spending globally are boosting market demand. Regulatory agencies in many regions have also established strict guidelines to ensure the safety of blood transfusions, promoting the adoption of blood irradiation equipment in hospitals and blood banks.

A significant challenge for the blood irradiation market is the high cost associated with irradiation equipment and maintenance. These expenses can be prohibitive for smaller

healthcare facilities and blood banks, limiting adoption in low-resource settings. Another challenge is the growing availability of alternative methods for blood sterilization and immunomodulation, which compete with blood irradiation. Regulatory barriers and the need for extensive training and specialized staff for handling irradiation equipment further add to the cost and operational complexity, impacting market growth, particularly in developing countries.

Global Blood Irradiation key players include Best Theratronics, Fujifilm, 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.

This report studies the global Blood Irradiation production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Blood Irradiation and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Blood Irradiation that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Blood Irradiation total production and demand, 2021-2032, (Units)

Global Blood Irradiation total production value, 2021-2032, (USD Million)

Global Blood Irradiation production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Blood Irradiation consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Blood Irradiation domestic production, consumption, key domestic manufacturers and share

Global Blood Irradiation production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Blood Irradiation production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Blood Irradiation production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Blood Irradiation market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Best Theratronics, Fujifilm, Gilardoni, Eckert & Ziegler, Actemium, WEGO (Rad Source), Shinva Medical, LIVZON, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Blood Irradiation market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Blood Irradiation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Blood Irradiation Market, Segmentation by Type:

X-ray Blood Irradiation

Gamma-ray Blood Irradiation

Global Blood Irradiation Market, Segmentation by Application:

Blood Bank

Hospital

Research Institutions

Companies Profiled:

Best Theratronics

Fujifilm

Gilardoni

Eckert & Ziegler

Actemium

WEGO (Rad Source)

Shinva Medical

LIVZON

Key Questions Answered:

1. How big is the global Blood Irradiation market?
2. What is the demand of the global Blood Irradiation market?
3. What is the year over year growth of the global Blood Irradiation market?
4. What is the production and production value of the global Blood Irradiation market?
5. Who are the key producers in the global Blood Irradiation market?
6. What are the growth factors driving the market demand?

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