

# Global Food Irradiation Sterilization Solutions Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Food Irradiation Sterilization Solutions market size was valued at US\$ 1014 million in 2024 and is forecast to a readjusted size of USD 1582 million by 2031 with a CAGR of 6.6% during review period.

Food irradiation sterilization refers to exposing food to ionizing radiation to kill microorganisms, bacteria, viruses or microscopic insects on the food. Food irradiation destroys the DNA structure in the organism with the energy of electromagnetic wave radiation, so that microorganisms can no longer reproduce, and at the same time, it can also cause the plant germ to stop growing and differentiate, so as to prolong the preservation time, stabilize and improve the food quality.

Increasing consumer demand for food irradiation owing to increasing consumer acceptance of food irradiation in the market is the major driving factor for the growth of the global food irradiation market. The U.S. Food and Drug Administration (FDA) approves the irradiation of fresh vegetables and fruits as a phytosanitary treatment. The FDA has determined that the food irradiation process is safe and effective in preventing fruit and vegetable spoilage. Growing concern over foodborne illnesses and massive food losses due to infection, contamination, and spoilage are some of the key factors driving the food irradiation market. According to the World Health Organization (WHO), by May 2022, an estimated 600 million people worldwide (nearly one in 10) will fall ill from consuming contaminated food, and 420,000 people will die each year. Additionally, unsafe food in low- and middle-income countries costs the world \$110 billion in lost productivity and healthcare costs annually. Rising cases of food contamination are driving the global food irradiation market.

This report is a detailed and comprehensive analysis for global Food Irradiation Sterilization Solutions market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Food Irradiation Sterilization Solutions market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Food Irradiation Sterilization Solutions market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Food Irradiation Sterilization Solutions market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Food Irradiation Sterilization Solutions market shares of main players, in revenue (\$ Million), 2020-2025

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Food Irradiation Sterilization Solutions

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Food Irradiation Sterilization Solutions market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sterigenics International, Gray Star, BGS, Ionisos, Sadex, Sterix Isomedix Services, Scantech Sciences, Benebi?n, Tacleor, Rayfresh Foods, etc.

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

### Market segmentation

Food Irradiation Sterilization Solutions market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Gama Radiation

X-Ray Radiation

Electron Beam Radiation

### Market segment by Application

Ultra-High Pressure

Steam Pasteurization

Food Coating

Ozone Treatment

Others

### Market segment by players, this report covers

Sterigenics International

Gray Star

BGS

Ionisos

Sadex

Sterix Isomedix Services

Scantech Sciences

Benebi?n

Tacleor

Rayfresh Foods

Zhejiang Bigradium

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

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

Chapter 2, to profile the top players of Food Irradiation Sterilization Solutions, with revenue, gross margin, and global market share of Food Irradiation Sterilization

Solutions from 2020 to 2025.

Chapter 3, the Food Irradiation Sterilization Solutions competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Food Irradiation Sterilization Solutions market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Food Irradiation Sterilization Solutions.

Chapter 13, to describe Food Irradiation Sterilization Solutions research findings and conclusion.

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