

# Alpha Emitter Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global alpha emitter market size reached US\$ 1,150.4 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5,929.6 Million by 2028, exhibiting a growth rate (CAGR) of 28.37% during 2023-2028.

Alpha emitters are substances emitted by radioactive sources that decay after releasing alpha particles. They achieve appropriate biodistribution and associated dose distribution to achieve effective therapy without causing unacceptable acute or long-term side effects. With their exceptionally high cell-killing rates, alpha particles are more destructive to tumor cells than beta particles when used in medical procedures. Consequently, they cause less damage to adjacent normal tissues. Radium, lead and bismuth are some of the radionuclides used in the treatment process. The short range and high linear energy transfer (LET) of alpha particles have made them remarkably appealing to medical research, particularly as a viable treatment method for cancer. There are numerous types of cancer that can be treated with alpha emitters, including ovarian cancer, pancreatic cancer, lymphoma, and melanoma.

### Alpha Emitter Market Trends:

The market is majorly driven by extensive and high-end research and development (R&D) activities being conducted in cancer treatment. This can be attributed to the growing awareness regarding the cell-killing abilities of targeted alpha emitters. In line with this, the rising prevalence of various types of cancer among the masses is providing an impetus to the market. Also, the increasing geriatric population that is susceptible to develop numerous cardiac and cancer ailments is creating a positive outlook for the market. Moreover, the rising adoption of targeted anticancer or alpha therapy (TAT) in healthcare facilities is impacting the market positively. The market is further propelled by continual technological advancements and the growing number of

new nuclear-medicine-based product approvals. Some of the other factors contributing to the market include rapid urbanization, continual improvements in healthcare infrastructure, rising medical expenditure and inflating disposable income levels of the individuals.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global alpha emitter market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type of radionuclide, medical application and end user.

#### Breakup by Type of Radionuclide:

- Astatine
- Radium
- Actinium
- Lead
- Bismuth
- Others

#### Breakup by Medical Application:

- Prostate Cancer
- Bone Metastasis
- Ovarian Cancer
- Pancreatic Cancer
- Endocrine Tumors
- Others

#### Breakup by End User:

- Hospitals
- Medical Research Institutions
- 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 Actinium Pharmaceuticals Inc., Alpha Tau Medical Ltd., Bayer AG, Fusion Pharmaceuticals, IBA RadioPharma Solutions and RadioMedix Inc.

#### Key Questions Answered in This Report:

How has the global alpha emitter market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global alpha emitter market?

What are the key regional markets?

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

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

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 alpha emitter 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 ALPHA EMITTER MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY TYPE OF RADIONUCLIDE**

- 6.1 Astatine
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Radium
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Actinium

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Lead
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast
- 6.5 Bismuth
  - 6.5.1 Market Trends
  - 6.5.2 Market Forecast
- 6.6 Others
  - 6.6.1 Market Trends
  - 6.6.2 Market Forecast

## **7 MARKET BREAKUP BY MEDICAL APPLICATION**

- 7.1 Prostate Cancer
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Bone Metastasis
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Ovarian Cancer
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 Pancreatic Cancer
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast
- 7.5 Endocrine Tumors
  - 7.5.1 Market Trends
  - 7.5.2 Market Forecast
- 7.6 Others
  - 7.6.1 Market Trends
  - 7.6.2 Market Forecast

## **8 MARKET BREAKUP BY END USER**

- 8.1 Hospitals
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Medical Research Institutions

- 8.2.1 Market Trends
- 8.2.2 Market Forecast
- 8.3 Others
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast

## **9 MARKET BREAKUP BY REGION**

- 9.1 North America
  - 9.1.1 United States
    - 9.1.1.1 Market Trends
    - 9.1.1.2 Market Forecast
  - 9.1.2 Canada
    - 9.1.2.1 Market Trends
    - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
  - 9.2.1 China
    - 9.2.1.1 Market Trends
    - 9.2.1.2 Market Forecast
  - 9.2.2 Japan
    - 9.2.2.1 Market Trends
    - 9.2.2.2 Market Forecast
  - 9.2.3 India
    - 9.2.3.1 Market Trends
    - 9.2.3.2 Market Forecast
  - 9.2.4 South Korea
    - 9.2.4.1 Market Trends
    - 9.2.4.2 Market Forecast
  - 9.2.5 Australia
    - 9.2.5.1 Market Trends
    - 9.2.5.2 Market Forecast
  - 9.2.6 Indonesia
    - 9.2.6.1 Market Trends
    - 9.2.6.2 Market Forecast
  - 9.2.7 Others
    - 9.2.7.1 Market Trends
    - 9.2.7.2 Market Forecast
- 9.3 Europe
  - 9.3.1 Germany

- 9.3.1.1 Market Trends
- 9.3.1.2 Market Forecast
- 9.3.2 France
  - 9.3.2.1 Market Trends
  - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
  - 9.3.3.1 Market Trends
  - 9.3.3.2 Market Forecast
- 9.3.4 Italy
  - 9.3.4.1 Market Trends
  - 9.3.4.2 Market Forecast
- 9.3.5 Spain
  - 9.3.5.1 Market Trends
  - 9.3.5.2 Market Forecast
- 9.3.6 Russia
  - 9.3.6.1 Market Trends
  - 9.3.6.2 Market Forecast
- 9.3.7 Others
  - 9.3.7.1 Market Trends
  - 9.3.7.2 Market Forecast
- 9.4 Latin America
  - 9.4.1 Brazil
    - 9.4.1.1 Market Trends
    - 9.4.1.2 Market Forecast
  - 9.4.2 Mexico
    - 9.4.2.1 Market Trends
    - 9.4.2.2 Market Forecast
  - 9.4.3 Others
    - 9.4.3.1 Market Trends
    - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
  - 9.5.1 Market Trends
  - 9.5.2 Market Breakup by Country
  - 9.5.3 Market Forecast

## **10 SWOT ANALYSIS**

- 10.1 Overview
- 10.2 Strengths



10.3 Weaknesses

10.4 Opportunities

10.5 Threats

## **11 VALUE CHAIN ANALYSIS**

## **12 PORTERS FIVE FORCES ANALYSIS**

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

## **13 PRICE ANALYSIS**

## **14 COMPETITIVE LANDSCAPE**

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Actinium Pharmaceuticals Inc.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.2 Alpha Tau Medical Ltd.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.3 Bayer AG

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 Fusion Pharmaceuticals

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

14.3.5 IBA RadioPharma Solutions

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.6 RadioMedix Inc.

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Alpha Emitter Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Alpha Emitter Market Forecast: Breakup by Type of Radionuclide (in Million US\$), 2023-2028

Table 3: Global: Alpha Emitter Market Forecast: Breakup by Medical Application (in Million US\$), 2023-2028

Table 4: Global: Alpha Emitter Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 5: Global: Alpha Emitter Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Alpha Emitter Market: Competitive Structure

Table 7: Global: Alpha Emitter Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Alpha Emitter Market: Major Drivers and Challenges

Figure 2: Global: Alpha Emitter Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 4: Global: Alpha Emitter Market: Breakup by Type of Radionuclide (in %), 2022

Figure 5: Global: Alpha Emitter Market: Breakup by Medical Application (in %), 2022

Figure 6: Global: Alpha Emitter Market: Breakup by End User (in %), 2022

Figure 7: Global: Alpha Emitter Market: Breakup by Region (in %), 2022

Figure 8: Global: Alpha Emitter (Astatine) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Alpha Emitter (Astatine) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Alpha Emitter (Radium) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Alpha Emitter (Radium) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Alpha Emitter (Actinium) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Alpha Emitter (Actinium) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Alpha Emitter (Lead) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Alpha Emitter (Lead) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Alpha Emitter (Bismuth) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Alpha Emitter (Bismuth) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Alpha Emitter (Other Type of Radionuclides) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Alpha Emitter (Other Type of Radionuclides) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Alpha Emitter (Prostate Cancer) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Alpha Emitter (Prostate Cancer) Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 22: Global: Alpha Emitter (Bone Metastasis) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Alpha Emitter (Bone Metastasis) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Alpha Emitter (Ovarian Cancer) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Alpha Emitter (Ovarian Cancer) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Alpha Emitter (Pancreatic Cancer) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Alpha Emitter (Pancreatic Cancer) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Alpha Emitter (Endocrine Tumors) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Alpha Emitter (Endocrine Tumors) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Alpha Emitter (Other Medical Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Alpha Emitter (Other Medical Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Alpha Emitter (Hospitals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Alpha Emitter (Hospitals) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Alpha Emitter (Medical Research Institutions) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Alpha Emitter (Medical Research Institutions) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Alpha Emitter (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Global: Alpha Emitter (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: North America: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: North America: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: United States: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: United States: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Canada: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Canada: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: Asia-Pacific: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Asia-Pacific: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: China: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: China: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Japan: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Japan: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: India: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: India: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: South Korea: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: South Korea: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Australia: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Australia: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Indonesia: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Indonesia: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Others: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Others: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Europe: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Europe: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: Germany: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Germany: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: France: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: France: Alpha Emitter Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 66: United Kingdom: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: United Kingdom: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Italy: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Italy: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Spain: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Spain: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Russia: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Russia: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Others: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Others: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Latin America: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Latin America: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Brazil: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Brazil: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Mexico: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Mexico: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Others: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 83: Others: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Middle East and Africa: Alpha Emitter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 85: Middle East and Africa: Alpha Emitter Market: Breakup by Country (in %), 2022

Figure 86: Middle East and Africa: Alpha Emitter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 87: Global: Alpha Emitter Industry: SWOT Analysis

Figure 88: Global: Alpha Emitter Industry: Value Chain Analysis

Figure 89: Global: Alpha Emitter Industry: Porter's Five Forces Analysis

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