

Global Europium Nanoparticle in Biological Sector Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Europium Nanoparticle in Biological Sector market size was valued at US\$ 15.61 million in 2025 and is forecast to a readjusted size of US\$ 28.02 million by 2032 with a CAGR of 8.8% during review period.

Europium (Eu), a rare earth element, has been widely explored for its applications in biological immunofluorescence diagnosis due to its unique luminescent properties. Here is an overview of why and how it's used: Long Fluorescence Lifetimes: Europium complexes have fluorescence lifetimes of microseconds to milliseconds, which are significantly longer than conventional organic fluorophores. This time gap allows researchers to perform time-gated detection, reducing autofluorescence from biomolecules and background noise, thus improving the sensitivity and accuracy of assays. High Stability: Europium chelates or cryptates are highly stable, providing consistent fluorescence signals that don't photobleach. The stability of these fluorescent compounds ensures the reliability of diagnostic tests over extended periods. Sharp Emission Spectra: Europium complexes exhibit sharp emission spectral peaks, which enables multiplexing, meaning several different probes can be detected simultaneously without overlap. This is particularly useful in high-throughput screening or when it's necessary to detect multiple targets at once. In terms of application in biological immunofluorescence diagnosis, europium-labeled immunoassays are commonly used. These techniques involve creating a complex between europium and an antibody specific to the target antigen. When the antigen is present, the europium-labelled antibody binds to it. The resulting complex can then be detected through the characteristic fluorescence of europium, allowing accurate identification and quantification of the target antigen. Overall, the use of europium in biological

immunofluorescence diagnostics continues to be a promising field, potentially contributing to the development of more accurate, sensitive, and high-throughput diagnostic methods.

Europium's prolonged fluorescence emission has made it a popular choice for time-resolved fluorometry, a technique often used in immunoassays to increase signal-to-noise ratio, providing highly accurate results.

The development of Europium-doped nanoparticles has expanded potential applications in diagnostics. They provide enhanced stability, sensitivity, and specificity in detecting biomarkers for various diseases.

Initiatives by governments and health organizations worldwide to improve healthcare infrastructure and diagnostic capabilities could lead to greater adoption of advanced diagnostic techniques, including Europium-based immunofluorescence.

With increasing incidences of diseases such as cancer, cardiovascular disease, and diabetes, there's a growing need for advanced diagnostic techniques. Europium-based fluorescence assays could play a key role due to their high sensitivity and specificity.

This report is a detailed and comprehensive analysis for global Europium Nanoparticle in Biological Sector 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 Europium Nanoparticle in Biological Sector market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Europium Nanoparticle in Biological Sector market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Europium Nanoparticle in Biological Sector market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Europium Nanoparticle in Biological Sector market shares of main players, in revenue (\$ Million), 2021-2026

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 Europium Nanoparticle in Biological Sector

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 Europium Nanoparticle in Biological Sector 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 Thermo Fisher Scientific, Merck, Bangs Laboratories, Inc., Suzhou NanoMicro Technology Co, Polysciences Inc, CD Bioparticles, Hangzhou Bioeast Biotech Co, Nanjing Microdetection, PuriMag, YUAN BIOTECH, etc.

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

Market segmentation

Europium Nanoparticle in Biological Sector market is split by Type and by Application. For the period 2021-2032, 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

300 nm

200 nm

100 nm

Other

Market segment by Application

Tumor Marker Testing

Thyroid Function Testing

Sex Hormone Testing

Infectious Disease Testing

Cardiovascular and Cardiac Biomarkers Testing

Other

Market segment by players, this report covers

Thermo Fisher Scientific

Merk

Bangs Laboratories, Inc.

Suzhou NanoMicro Technology Co

Polysciences Inc

CD Bioparticles

Hangzhou Bioeast Biotech Co

Nanjing Microdetection

PuriMag

YUAN BIOTECH

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 Europium Nanoparticle in Biological Sector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Europium Nanoparticle in Biological Sector, with revenue, gross margin, and global market share of Europium Nanoparticle in Biological Sector from 2021 to 2026.

Chapter 3, the Europium Nanoparticle in Biological Sector 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 2021 to 2032.

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 2021 to 2026. and Europium Nanoparticle in Biological Sector market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Europium Nanoparticle in Biological Sector.

Chapter 13, to describe Europium Nanoparticle in Biological Sector research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Europium Nanoparticle in Biological Sector by Type

1.3.1 Overview: Global Europium Nanoparticle in Biological Sector Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Europium Nanoparticle in Biological Sector Consumption Value Market Share by Type in 2025

1.3.3 300 nm

1.3.4 200 nm

1.3.5 100 nm

1.3.6 Other

1.4 Global Europium Nanoparticle in Biological Sector Market by Application

1.4.1 Overview: Global Europium Nanoparticle in Biological Sector Market Size by Application: 2021 Versus 2025 Versus 2032

1.4.2 Tumor Marker Testing

1.4.3 Thyroid Function Testing

1.4.4 Sex Hormone Testing

1.4.5 Infectious Disease Testing

1.4.6 Cardiovascular and Cardiac Biomarkers Testing

1.4.7 Other

1.5 Global Europium Nanoparticle in Biological Sector Market Size & Forecast

1.6 Global Europium Nanoparticle in Biological Sector Market Size and Forecast by Region

1.6.1 Global Europium Nanoparticle in Biological Sector Market Size by Region: 2021 VS 2025 VS 2032

1.6.2 Global Europium Nanoparticle in Biological Sector Market Size by Region, (2021-2032)

1.6.3 North America Europium Nanoparticle in Biological Sector Market Size and Prospect (2021-2032)

1.6.4 Europe Europium Nanoparticle in Biological Sector Market Size and Prospect (2021-2032)

1.6.5 Asia-Pacific Europium Nanoparticle in Biological Sector Market Size and Prospect (2021-2032)

1.6.6 South America Europium Nanoparticle in Biological Sector Market Size and Prospect (2021-2032)

1.6.7 Middle East & Africa Europium Nanoparticle in Biological Sector Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Thermo Fisher Scientific

2.1.1 Thermo Fisher Scientific Details

2.1.2 Thermo Fisher Scientific Major Business

2.1.3 Thermo Fisher Scientific Europium Nanoparticle in Biological Sector Product and Solutions

2.1.4 Thermo Fisher Scientific Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Thermo Fisher Scientific Recent Developments and Future Plans

2.2 Merk

2.2.1 Merk Details

2.2.2 Merk Major Business

2.2.3 Merk Europium Nanoparticle in Biological Sector Product and Solutions

2.2.4 Merk Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Merk Recent Developments and Future Plans

2.3 Bangs Laboratories, Inc.

2.3.1 Bangs Laboratories, Inc. Details

2.3.2 Bangs Laboratories, Inc. Major Business

2.3.3 Bangs Laboratories, Inc. Europium Nanoparticle in Biological Sector Product and Solutions

2.3.4 Bangs Laboratories, Inc. Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Bangs Laboratories, Inc. Recent Developments and Future Plans

2.4 Suzhou NanoMicro Technology Co

2.4.1 Suzhou NanoMicro Technology Co Details

2.4.2 Suzhou NanoMicro Technology Co Major Business

2.4.3 Suzhou NanoMicro Technology Co Europium Nanoparticle in Biological Sector Product and Solutions

2.4.4 Suzhou NanoMicro Technology Co Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Suzhou NanoMicro Technology Co Recent Developments and Future Plans

2.5 Polysciences Inc

2.5.1 Polysciences Inc Details

2.5.2 Polysciences Inc Major Business

2.5.3 Polysciences Inc Europium Nanoparticle in Biological Sector Product and Solutions

2.5.4 Polysciences Inc Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Polysciences Inc Recent Developments and Future Plans

2.6 CD Bioparticles

2.6.1 CD Bioparticles Details

2.6.2 CD Bioparticles Major Business

2.6.3 CD Bioparticles Europium Nanoparticle in Biological Sector Product and Solutions

2.6.4 CD Bioparticles Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 CD Bioparticles Recent Developments and Future Plans

2.7 Hangzhou Bioeast Biotech Co

2.7.1 Hangzhou Bioeast Biotech Co Details

2.7.2 Hangzhou Bioeast Biotech Co Major Business

2.7.3 Hangzhou Bioeast Biotech Co Europium Nanoparticle in Biological Sector Product and Solutions

2.7.4 Hangzhou Bioeast Biotech Co Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Hangzhou Bioeast Biotech Co Recent Developments and Future Plans

2.8 Nanjing Microdetection

2.8.1 Nanjing Microdetection Details

2.8.2 Nanjing Microdetection Major Business

2.8.3 Nanjing Microdetection Europium Nanoparticle in Biological Sector Product and Solutions

2.8.4 Nanjing Microdetection Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Nanjing Microdetection Recent Developments and Future Plans

2.9 PuriMag

2.9.1 PuriMag Details

2.9.2 PuriMag Major Business

2.9.3 PuriMag Europium Nanoparticle in Biological Sector Product and Solutions

2.9.4 PuriMag Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 PuriMag Recent Developments and Future Plans

2.10 YUAN BIOTECH

2.10.1 YUAN BIOTECH Details

2.10.2 YUAN BIOTECH Major Business

2.10.3 YUAN BIOTECH Europium Nanoparticle in Biological Sector Product and Solutions

2.10.4 YUAN BIOTECH Europium Nanoparticle in Biological Sector Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 YUAN BIOTECH Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Europium Nanoparticle in Biological Sector Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of Europium Nanoparticle in Biological Sector by Company Revenue

3.2.2 Top 3 Europium Nanoparticle in Biological Sector Players Market Share in 2025

3.2.3 Top 6 Europium Nanoparticle in Biological Sector Players Market Share in 2025

3.3 Europium Nanoparticle in Biological Sector Market: Overall Company Footprint Analysis

3.3.1 Europium Nanoparticle in Biological Sector Market: Region Footprint

3.3.2 Europium Nanoparticle in Biological Sector Market: Company Product Type Footprint

3.3.3 Europium Nanoparticle in Biological Sector Market: Company Product Application Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Europium Nanoparticle in Biological Sector Consumption Value and Market Share by Type (2021-2026)

4.2 Global Europium Nanoparticle in Biological Sector Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Europium Nanoparticle in Biological Sector Consumption Value Market Share by Application (2021-2026)

5.2 Global Europium Nanoparticle in Biological Sector Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2032)

6.2 North America Europium Nanoparticle in Biological Sector Market Size by Application (2021-2032)

6.3 North America Europium Nanoparticle in Biological Sector Market Size by Country

6.3.1 North America Europium Nanoparticle in Biological Sector Consumption Value by Country (2021-2032)

6.3.2 United States Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

6.3.3 Canada Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

6.3.4 Mexico Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2032)

7.2 Europe Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2032)

7.3 Europe Europium Nanoparticle in Biological Sector Market Size by Country

7.3.1 Europe Europium Nanoparticle in Biological Sector Consumption Value by Country (2021-2032)

7.3.2 Germany Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

7.3.3 France Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

7.3.5 Russia Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

7.3.6 Italy Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Type

(2021-2032)

8.2 Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Europium Nanoparticle in Biological Sector Market Size by Region

8.3.1 Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Region (2021-2032)

8.3.2 China Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

8.3.3 Japan Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

8.3.4 South Korea Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

8.3.5 India Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

8.3.7 Australia Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2032)

9.2 South America Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2032)

9.3 South America Europium Nanoparticle in Biological Sector Market Size by Country

9.3.1 South America Europium Nanoparticle in Biological Sector Consumption Value by Country (2021-2032)

9.3.2 Brazil Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

9.3.3 Argentina Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Europium Nanoparticle in Biological Sector Market Size by Country

10.3.1 Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value by Country (2021-2032)

10.3.2 Turkey Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

10.3.4 UAE Europium Nanoparticle in Biological Sector Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Europium Nanoparticle in Biological Sector Market Drivers

11.2 Europium Nanoparticle in Biological Sector Market Restraints

11.3 Europium Nanoparticle in Biological Sector Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Europium Nanoparticle in Biological Sector Industry Chain

12.2 Europium Nanoparticle in Biological Sector Upstream Analysis

12.3 Europium Nanoparticle in Biological Sector Midstream Analysis

12.4 Europium Nanoparticle in Biological Sector Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Figures

LIST OF FIGURES

Table 1. Global Europium Nanoparticle in Biological Sector Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Europium Nanoparticle in Biological Sector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Global Europium Nanoparticle in Biological Sector Consumption Value by Region (2021-2026) & (USD Million)

Table 4. Global Europium Nanoparticle in Biological Sector Consumption Value by Region (2027-2032) & (USD Million)

Table 5. Thermo Fisher Scientific Company Information, Head Office, and Major Competitors

Table 6. Thermo Fisher Scientific Major Business

Table 7. Thermo Fisher Scientific Europium Nanoparticle in Biological Sector Product and Solutions

Table 8. Thermo Fisher Scientific Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Thermo Fisher Scientific Recent Developments and Future Plans

Table 10. Merk Company Information, Head Office, and Major Competitors

Table 11. Merk Major Business

Table 12. Merk Europium Nanoparticle in Biological Sector Product and Solutions

Table 13. Merk Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Merk Recent Developments and Future Plans

Table 15. Bangs Laboratories, Inc. Company Information, Head Office, and Major Competitors

Table 16. Bangs Laboratories, Inc. Major Business

Table 17. Bangs Laboratories, Inc. Europium Nanoparticle in Biological Sector Product and Solutions

Table 18. Bangs Laboratories, Inc. Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Suzhou NanoMicro Technology Co Company Information, Head Office, and Major Competitors

Table 20. Suzhou NanoMicro Technology Co Major Business

Table 21. Suzhou NanoMicro Technology Co Europium Nanoparticle in Biological Sector Product and Solutions

Table 22. Suzhou NanoMicro Technology Co Europium Nanoparticle in Biological

Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Suzhou NanoMicro Technology Co Recent Developments and Future Plans

Table 24. Polysciences Inc Company Information, Head Office, and Major Competitors

Table 25. Polysciences Inc Major Business

Table 26. Polysciences Inc Europium Nanoparticle in Biological Sector Product and Solutions

Table 27. Polysciences Inc Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Polysciences Inc Recent Developments and Future Plans

Table 29. CD Bioparticles Company Information, Head Office, and Major Competitors

Table 30. CD Bioparticles Major Business

Table 31. CD Bioparticles Europium Nanoparticle in Biological Sector Product and Solutions

Table 32. CD Bioparticles Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. CD Bioparticles Recent Developments and Future Plans

Table 34. Hangzhou Bioeast Biotech Co Company Information, Head Office, and Major Competitors

Table 35. Hangzhou Bioeast Biotech Co Major Business

Table 36. Hangzhou Bioeast Biotech Co Europium Nanoparticle in Biological Sector Product and Solutions

Table 37. Hangzhou Bioeast Biotech Co Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Hangzhou Bioeast Biotech Co Recent Developments and Future Plans

Table 39. Nanjing Microdetection Company Information, Head Office, and Major Competitors

Table 40. Nanjing Microdetection Major Business

Table 41. Nanjing Microdetection Europium Nanoparticle in Biological Sector Product and Solutions

Table 42. Nanjing Microdetection Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. Nanjing Microdetection Recent Developments and Future Plans

Table 44. PuriMag Company Information, Head Office, and Major Competitors

Table 45. PuriMag Major Business

Table 46. PuriMag Europium Nanoparticle in Biological Sector Product and Solutions

Table 47. PuriMag Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. PuriMag Recent Developments and Future Plans

Table 49. YUAN ?BIOTECH Company Information, Head Office, and Major Competitors

Table 50. YUAN ?BIOTECH Major Business

Table 51. YUAN ?BIOTECH Europium Nanoparticle in Biological Sector Product and Solutions

Table 52. YUAN ?BIOTECH Europium Nanoparticle in Biological Sector Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. YUAN ?BIOTECH Recent Developments and Future Plans

Table 54. Global Europium Nanoparticle in Biological Sector Revenue (USD Million) by Players (2021-2026)

Table 55. Global Europium Nanoparticle in Biological Sector Revenue Share by Players (2021-2026)

Table 56. Breakdown of Europium Nanoparticle in Biological Sector by Company Type (Tier 1, Tier 2, and Tier 3)

Table 57. Market Position of Players in Europium Nanoparticle in Biological Sector, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 58. Head Office of Key Europium Nanoparticle in Biological Sector Players

Table 59. Europium Nanoparticle in Biological Sector Market: Company Product Type Footprint

Table 60. Europium Nanoparticle in Biological Sector Market: Company Product Application Footprint

Table 61. Europium Nanoparticle in Biological Sector New Market Entrants and Barriers to Market Entry

Table 62. Europium Nanoparticle in Biological Sector Mergers, Acquisition, Agreements, and Collaborations

Table 63. Global Europium Nanoparticle in Biological Sector Consumption Value (USD Million) by Type (2021-2026)

Table 64. Global Europium Nanoparticle in Biological Sector Consumption Value Share by Type (2021-2026)

Table 65. Global Europium Nanoparticle in Biological Sector Consumption Value Forecast by Type (2027-2032)

Table 66. Global Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2026)

Table 67. Global Europium Nanoparticle in Biological Sector Consumption Value Forecast by Application (2027-2032)

Table 68. North America Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2026) & (USD Million)

Table 69. North America Europium Nanoparticle in Biological Sector Consumption Value by Type (2027-2032) & (USD Million)

Table 70. North America Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2026) & (USD Million)

Table 71. North America Europium Nanoparticle in Biological Sector Consumption Value by Application (2027-2032) & (USD Million)

Table 72. North America Europium Nanoparticle in Biological Sector Consumption Value by Country (2021-2026) & (USD Million)

Table 73. North America Europium Nanoparticle in Biological Sector Consumption Value by Country (2027-2032) & (USD Million)

Table 74. Europe Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2026) & (USD Million)

Table 75. Europe Europium Nanoparticle in Biological Sector Consumption Value by Type (2027-2032) & (USD Million)

Table 76. Europe Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2026) & (USD Million)

Table 77. Europe Europium Nanoparticle in Biological Sector Consumption Value by Application (2027-2032) & (USD Million)

Table 78. Europe Europium Nanoparticle in Biological Sector Consumption Value by Country (2021-2026) & (USD Million)

Table 79. Europe Europium Nanoparticle in Biological Sector Consumption Value by Country (2027-2032) & (USD Million)

Table 80. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2026) & (USD Million)

Table 81. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Type (2027-2032) & (USD Million)

Table 82. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2026) & (USD Million)

Table 83. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Application (2027-2032) & (USD Million)

Table 84. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Region (2021-2026) & (USD Million)

Table 85. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value by Region (2027-2032) & (USD Million)

Table 86. South America Europium Nanoparticle in Biological Sector Consumption Value by Type (2021-2026) & (USD Million)

Table 87. South America Europium Nanoparticle in Biological Sector Consumption Value by Type (2027-2032) & (USD Million)

Table 88. South America Europium Nanoparticle in Biological Sector Consumption Value by Application (2021-2026) & (USD Million)

Table 89. South America Europium Nanoparticle in Biological Sector Consumption Value by Application (2027-2032) & (USD Million)

Table 90. South America Europium Nanoparticle in Biological Sector Consumption

Value by Country (2021-2026) & (USD Million)

Table 91. South America Europium Nanoparticle in Biological Sector Consumption

Value by Country (2027-2032) & (USD Million)

Table 92. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption

Value by Type (2021-2026) & (USD Million)

Table 93. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption

Value by Type (2027-2032) & (USD Million)

Table 94. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption

Value by Application (2021-2026) & (USD Million)

Table 95. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption

Value by Application (2027-2032) & (USD Million)

Table 96. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption

Value by Country (2021-2026) & (USD Million)

Table 97. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption

Value by Country (2027-2032) & (USD Million)

Table 98. Global Key Players of Europium Nanoparticle in Biological Sector Upstream
(Raw Materials)

Table 99. Global Europium Nanoparticle in Biological Sector Typical Customers

LIST OF FIGURES

Figure 1. Europium Nanoparticle in Biological Sector Picture

Figure 2. Global Europium Nanoparticle in Biological Sector Consumption Value by
Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Europium Nanoparticle in Biological Sector Consumption Value Market
Share by Type in 2025

Figure 4. 300 nm

Figure 5. 200 nm

Figure 6. 100 nm

Figure 7. Other

Figure 8. Global Europium Nanoparticle in Biological Sector Consumption Value by
Application, (USD Million), 2021 & 2025 & 2032

Figure 9. Europium Nanoparticle in Biological Sector Consumption Value Market Share
by Application in 2025

Figure 10. Tumor Marker Testing Picture

Figure 11. Thyroid Function Testing Picture

Figure 12. Sex Hormone Testing Picture

Figure 13. Infectious Disease Testing Picture

Figure 14. Cardiovascular and Cardiac Biomarkers Testing Picture

Figure 15. Other Picture

Figure 16. Global Europium Nanoparticle in Biological Sector Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 17. Global Europium Nanoparticle in Biological Sector Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 18. Global Market Europium Nanoparticle in Biological Sector Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 19. Global Europium Nanoparticle in Biological Sector Consumption Value Market Share by Region (2021-2032)

Figure 20. Global Europium Nanoparticle in Biological Sector Consumption Value Market Share by Region in 2025

Figure 21. North America Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 22. Europe Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 23. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 24. South America Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 25. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 26. Company Three Recent Developments and Future Plans

Figure 27. Global Europium Nanoparticle in Biological Sector Revenue Share by Players in 2025

Figure 28. Europium Nanoparticle in Biological Sector Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 29. Market Share of Europium Nanoparticle in Biological Sector by Player Revenue in 2025

Figure 30. Top 3 Europium Nanoparticle in Biological Sector Players Market Share in 2025

Figure 31. Top 6 Europium Nanoparticle in Biological Sector Players Market Share in 2025

Figure 32. Global Europium Nanoparticle in Biological Sector Consumption Value Share by Type (2021-2026)

Figure 33. Global Europium Nanoparticle in Biological Sector Market Share Forecast by Type (2027-2032)

Figure 34. Global Europium Nanoparticle in Biological Sector Consumption Value Share by Application (2021-2026)

Figure 35. Global Europium Nanoparticle in Biological Sector Market Share Forecast by

Application (2027-2032)

Figure 36. North America Europium Nanoparticle in Biological Sector Consumption Value Market Share by Type (2021-2032)

Figure 37. North America Europium Nanoparticle in Biological Sector Consumption Value Market Share by Application (2021-2032)

Figure 38. North America Europium Nanoparticle in Biological Sector Consumption Value Market Share by Country (2021-2032)

Figure 39. United States Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 40. Canada Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 41. Mexico Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 42. Europe Europium Nanoparticle in Biological Sector Consumption Value Market Share by Type (2021-2032)

Figure 43. Europe Europium Nanoparticle in Biological Sector Consumption Value Market Share by Application (2021-2032)

Figure 44. Europe Europium Nanoparticle in Biological Sector Consumption Value Market Share by Country (2021-2032)

Figure 45. Germany Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 46. France Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 47. United Kingdom Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 48. Russia Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 49. Italy Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 50. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value Market Share by Type (2021-2032)

Figure 51. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value Market Share by Application (2021-2032)

Figure 52. Asia-Pacific Europium Nanoparticle in Biological Sector Consumption Value Market Share by Region (2021-2032)

Figure 53. China Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 54. Japan Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 55. South Korea Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 56. India Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 57. Southeast Asia Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 58. Australia Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 59. South America Europium Nanoparticle in Biological Sector Consumption Value Market Share by Type (2021-2032)

Figure 60. South America Europium Nanoparticle in Biological Sector Consumption Value Market Share by Application (2021-2032)

Figure 61. South America Europium Nanoparticle in Biological Sector Consumption Value Market Share by Country (2021-2032)

Figure 62. Brazil Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 63. Argentina Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 64. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value Market Share by Type (2021-2032)

Figure 65. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value Market Share by Application (2021-2032)

Figure 66. Middle East & Africa Europium Nanoparticle in Biological Sector Consumption Value Market Share by Country (2021-2032)

Figure 67. Turkey Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 68. Saudi Arabia Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 69. UAE Europium Nanoparticle in Biological Sector Consumption Value (2021-2032) & (USD Million)

Figure 70. Europium Nanoparticle in Biological Sector Market Drivers

Figure 71. Europium Nanoparticle in Biological Sector Market Restraints

Figure 72. Europium Nanoparticle in Biological Sector Market Trends

Figure 73. Porters Five Forces Analysis

Figure 74. Europium Nanoparticle in Biological Sector Industrial Chain

Figure 75. Methodology

Figure 76. Research Process and Data Source

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