

Global Protein A Chromatography Resin 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 Protein A Chromatography Resin market size was valued at USD 106.3 million in 2023 and is forecast to a readjusted size of USD 158.1 million by 2030 with a CAGR of 5.8% during review period.

Protein A chromatography resin is a specialized medium used in protein purification processes based on the affinity chromatography technique. It is designed to selectively bind and purify antibodies and antibody-based molecules, such as monoclonal antibodies (mAbs), from complex mixtures like cell culture supernatants or biopharmaceutical production streams. Protein A is a bacterial protein derived from *Staphylococcus aureus*, and it exhibits a strong affinity for the Fc region of immunoglobulin G (IgG) antibodies.

The resin consists of porous beads to which Protein A molecules are immobilized. When a mixture containing antibodies is passed through the column containing the Protein A chromatography resin, the antibodies specifically bind to the Protein A ligands while other unwanted impurities flow through the column. The bound antibodies are then eluted from the resin using a buffer or elution solution, resulting in highly purified antibodies suitable for therapeutic or research applications.

The market for protein A chromatography resin is a critical component of the biopharmaceutical industry. The increasing demand for monoclonal antibodies and antibody-based therapeutics has driven the growth of this market. Some key factors influencing the protein A chromatography resin market include:

Biopharmaceutical Industry Growth: The biopharmaceutical industry's expansion, driven by the development and approval of new monoclonal antibody-based drugs, has significantly boosted the demand for protein A chromatography resins.

Monoclonal Antibody Therapeutics: Monoclonal antibodies (mAbs) have become essential tools in treating various diseases, including cancer, autoimmune disorders, and infectious diseases. Protein A chromatography resins play a vital role in the purification of these antibodies during the bioprocessing stage.

Quality and Purity Requirements: The biopharmaceutical industry places a strong emphasis on product quality and purity. Protein A chromatography resin offers a highly selective and efficient method for achieving the required purity levels in the purification of antibodies.

Increasing Demand for Biologics: Biologics, including monoclonal antibodies, are gaining prominence in healthcare due to their high specificity and therapeutic efficacy. The production of biologics necessitates efficient purification methods like Protein A chromatography.

Advancements in Bioprocessing Technology: Ongoing advancements in bioprocessing technology have led to the development of improved Protein A chromatography resins with enhanced performance and increased capacity.

Biosimilars Development: The development of biosimilars, which are similar versions of approved biologic drugs, also drives the demand for Protein A chromatography resin as these biosimilars require efficient purification processes.

Increasing Research in Immunotherapy: The growing focus on immunotherapy and the development of personalized medicine have spurred research into novel antibodies, leading to a greater need for efficient antibody purification methods.

The protein A chromatography resin market is expected to continue growing as the demand for monoclonal antibodies and antibody-based therapeutics remains strong. Manufacturers of biopharmaceuticals and contract manufacturing organizations (CMOs) are likely to invest in efficient and reliable purification technologies like Protein A chromatography resins to meet the increasing demand for high-quality therapeutic antibodies. Additionally, ongoing research and development efforts may lead to the introduction of improved and innovative chromatography resins, further driving the growth of this market.

The Global Info Research report includes an overview of the development of the Protein A Chromatography Resin industry chain, the market status of Research (Monoclonal Antibodies, Non-antibody Protein), Pharmaceuticals (Monoclonal Antibodies, Non-antibody Protein), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Protein A Chromatography Resin.

Regionally, the report analyzes the Protein A Chromatography Resin 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 Protein A Chromatography Resin market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Protein A Chromatography Resin 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 Protein A Chromatography Resin 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 (K Units), revenue generated, and market share of different by Type (e.g., Monoclonal Antibodies, Non-antibody Protein).

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 Protein A Chromatography Resin market.

Regional Analysis: The report involves examining the Protein A Chromatography Resin 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 Protein A Chromatography Resin market. This may

include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Protein A Chromatography Resin:

Company Analysis: Report covers individual Protein A Chromatography Resin 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 Protein A Chromatography Resin. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Research, Pharmaceuticals).

Technology Analysis: Report covers specific technologies relevant to Protein A Chromatography Resin. It assesses the current state, advancements, and potential future developments in Protein A Chromatography Resin areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Protein A Chromatography Resin 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

Protein A Chromatography Resin 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

Monoclonal Antibodies

Non-antibody Protein

Polyclonal Antibodies

Others

Market segment by Application

Research

Pharmaceuticals

Major players covered

Merck KGaA

Tosoh Bioscience

GE Healthcare

Bio-Rad Laboratories

Thermo Fisher Scientific

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 Protein A Chromatography Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Protein A Chromatography Resin, with price, sales, revenue and global market share of Protein A Chromatography Resin from 2019 to 2024.

Chapter 3, the Protein A Chromatography Resin competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Protein A Chromatography Resin 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 Protein A Chromatography Resin 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 Protein A Chromatography Resin.

Chapter 14 and 15, to describe Protein A Chromatography Resin sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Protein A Chromatography Resin

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Protein A Chromatography Resin Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 Monoclonal Antibodies

1.3.3 Non-antibody Protein

1.3.4 Polyclonal Antibodies

1.3.5 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Protein A Chromatography Resin Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Research

1.4.3 Pharmaceuticals

1.5 Global Protein A Chromatography Resin Market Size & Forecast

1.5.1 Global Protein A Chromatography Resin Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Protein A Chromatography Resin Sales Quantity (2019-2030)

1.5.3 Global Protein A Chromatography Resin Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Merck KGaA

2.1.1 Merck KGaA Details

2.1.2 Merck KGaA Major Business

2.1.3 Merck KGaA Protein A Chromatography Resin Product and Services

2.1.4 Merck KGaA Protein A Chromatography Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Merck KGaA Recent Developments/Updates

2.2 Tosoh Bioscience

2.2.1 Tosoh Bioscience Details

2.2.2 Tosoh Bioscience Major Business

2.2.3 Tosoh Bioscience Protein A Chromatography Resin Product and Services

2.2.4 Tosoh Bioscience Protein A Chromatography Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.2.5 Tosoh Bioscience Recent Developments/Updates
- 2.3 GE Healthcare
 - 2.3.1 GE Healthcare Details
 - 2.3.2 GE Healthcare Major Business
 - 2.3.3 GE Healthcare Protein A Chromatography Resin Product and Services
 - 2.3.4 GE Healthcare Protein A Chromatography Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.3.5 GE Healthcare Recent Developments/Updates
- 2.4 Bio-Rad Laboratories
 - 2.4.1 Bio-Rad Laboratories Details
 - 2.4.2 Bio-Rad Laboratories Major Business
 - 2.4.3 Bio-Rad Laboratories Protein A Chromatography Resin Product and Services
 - 2.4.4 Bio-Rad Laboratories Protein A Chromatography Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.4.5 Bio-Rad Laboratories Recent Developments/Updates
- 2.5 Thermo Fisher Scientific
 - 2.5.1 Thermo Fisher Scientific Details
 - 2.5.2 Thermo Fisher Scientific Major Business
 - 2.5.3 Thermo Fisher Scientific Protein A Chromatography Resin Product and Services
 - 2.5.4 Thermo Fisher Scientific Protein A Chromatography Resin Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.5.5 Thermo Fisher Scientific Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PROTEIN A CHROMATOGRAPHY RESIN BY MANUFACTURER

- 3.1 Global Protein A Chromatography Resin Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Protein A Chromatography Resin Revenue by Manufacturer (2019-2024)
- 3.3 Global Protein A Chromatography Resin Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of Protein A Chromatography Resin by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 Protein A Chromatography Resin Manufacturer Market Share in 2023
 - 3.4.2 Top 6 Protein A Chromatography Resin Manufacturer Market Share in 2023
- 3.5 Protein A Chromatography Resin Market: Overall Company Footprint Analysis
 - 3.5.1 Protein A Chromatography Resin Market: Region Footprint
 - 3.5.2 Protein A Chromatography Resin Market: Company Product Type Footprint

- 3.5.3 Protein A Chromatography Resin Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Protein A Chromatography Resin Market Size by Region
 - 4.1.1 Global Protein A Chromatography Resin Sales Quantity by Region (2019-2030)
 - 4.1.2 Global Protein A Chromatography Resin Consumption Value by Region (2019-2030)
 - 4.1.3 Global Protein A Chromatography Resin Average Price by Region (2019-2030)
- 4.2 North America Protein A Chromatography Resin Consumption Value (2019-2030)
- 4.3 Europe Protein A Chromatography Resin Consumption Value (2019-2030)
- 4.4 Asia-Pacific Protein A Chromatography Resin Consumption Value (2019-2030)
- 4.5 South America Protein A Chromatography Resin Consumption Value (2019-2030)
- 4.6 Middle East and Africa Protein A Chromatography Resin Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Protein A Chromatography Resin Sales Quantity by Type (2019-2030)
- 5.2 Global Protein A Chromatography Resin Consumption Value by Type (2019-2030)
- 5.3 Global Protein A Chromatography Resin Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Protein A Chromatography Resin Sales Quantity by Application (2019-2030)
- 6.2 Global Protein A Chromatography Resin Consumption Value by Application (2019-2030)
- 6.3 Global Protein A Chromatography Resin Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Protein A Chromatography Resin Sales Quantity by Type (2019-2030)
- 7.2 North America Protein A Chromatography Resin Sales Quantity by Application (2019-2030)
- 7.3 North America Protein A Chromatography Resin Market Size by Country

7.3.1 North America Protein A Chromatography Resin Sales Quantity by Country (2019-2030)

7.3.2 North America Protein A Chromatography Resin Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Protein A Chromatography Resin Sales Quantity by Type (2019-2030)

8.2 Europe Protein A Chromatography Resin Sales Quantity by Application (2019-2030)

8.3 Europe Protein A Chromatography Resin Market Size by Country

8.3.1 Europe Protein A Chromatography Resin Sales Quantity by Country (2019-2030)

8.3.2 Europe Protein A Chromatography Resin Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Protein A Chromatography Resin Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Protein A Chromatography Resin Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Protein A Chromatography Resin Market Size by Region

9.3.1 Asia-Pacific Protein A Chromatography Resin Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Protein A Chromatography Resin Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Protein A Chromatography Resin Sales Quantity by Type (2019-2030)

10.2 South America Protein A Chromatography Resin Sales Quantity by Application (2019-2030)

10.3 South America Protein A Chromatography Resin Market Size by Country

10.3.1 South America Protein A Chromatography Resin Sales Quantity by Country (2019-2030)

10.3.2 South America Protein A Chromatography Resin Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Protein A Chromatography Resin Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Protein A Chromatography Resin Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Protein A Chromatography Resin Market Size by Country

11.3.1 Middle East & Africa Protein A Chromatography Resin Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Protein A Chromatography Resin Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Protein A Chromatography Resin Market Drivers

12.2 Protein A Chromatography Resin Market Restraints

12.3 Protein A Chromatography Resin Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Protein A Chromatography Resin and Key Manufacturers

13.2 Manufacturing Costs Percentage of Protein A Chromatography Resin

13.3 Protein A Chromatography Resin Production Process

13.4 Protein A Chromatography Resin Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Protein A Chromatography Resin Typical Distributors

14.3 Protein A Chromatography Resin Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Protein A Chromatography Resin Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Protein A Chromatography Resin Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Merck KGaA Basic Information, Manufacturing Base and Competitors

Table 4. Merck KGaA Major Business

Table 5. Merck KGaA Protein A Chromatography Resin Product and Services

Table 6. Merck KGaA Protein A Chromatography Resin Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Merck KGaA Recent Developments/Updates

Table 8. Tosoh Bioscience Basic Information, Manufacturing Base and Competitors

Table 9. Tosoh Bioscience Major Business

Table 10. Tosoh Bioscience Protein A Chromatography Resin Product and Services

Table 11. Tosoh Bioscience Protein A Chromatography Resin Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Tosoh Bioscience Recent Developments/Updates

Table 13. GE Healthcare Basic Information, Manufacturing Base and Competitors

Table 14. GE Healthcare Major Business

Table 15. GE Healthcare Protein A Chromatography Resin Product and Services

Table 16. GE Healthcare Protein A Chromatography Resin Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. GE Healthcare Recent Developments/Updates

Table 18. Bio-Rad Laboratories Basic Information, Manufacturing Base and Competitors

Table 19. Bio-Rad Laboratories Major Business

Table 20. Bio-Rad Laboratories Protein A Chromatography Resin Product and Services

Table 21. Bio-Rad Laboratories Protein A Chromatography Resin Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Bio-Rad Laboratories Recent Developments/Updates

Table 23. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 24. Thermo Fisher Scientific Major Business

Table 25. Thermo Fisher Scientific Protein A Chromatography Resin Product and Services

Table 26. Thermo Fisher Scientific Protein A Chromatography Resin Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Thermo Fisher Scientific Recent Developments/Updates

Table 28. Global Protein A Chromatography Resin Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 29. Global Protein A Chromatography Resin Revenue by Manufacturer (2019-2024) & (USD Million)

Table 30. Global Protein A Chromatography Resin Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 31. Market Position of Manufacturers in Protein A Chromatography Resin, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 32. Head Office and Protein A Chromatography Resin Production Site of Key Manufacturer

Table 33. Protein A Chromatography Resin Market: Company Product Type Footprint

Table 34. Protein A Chromatography Resin Market: Company Product Application Footprint

Table 35. Protein A Chromatography Resin New Market Entrants and Barriers to Market Entry

Table 36. Protein A Chromatography Resin Mergers, Acquisition, Agreements, and Collaborations

Table 37. Global Protein A Chromatography Resin Sales Quantity by Region (2019-2024) & (K Units)

Table 38. Global Protein A Chromatography Resin Sales Quantity by Region (2025-2030) & (K Units)

Table 39. Global Protein A Chromatography Resin Consumption Value by Region (2019-2024) & (USD Million)

Table 40. Global Protein A Chromatography Resin Consumption Value by Region (2025-2030) & (USD Million)

Table 41. Global Protein A Chromatography Resin Average Price by Region (2019-2024) & (USD/Unit)

Table 42. Global Protein A Chromatography Resin Average Price by Region (2025-2030) & (USD/Unit)

Table 43. Global Protein A Chromatography Resin Sales Quantity by Type (2019-2024) & (K Units)

Table 44. Global Protein A Chromatography Resin Sales Quantity by Type (2025-2030) & (K Units)

Table 45. Global Protein A Chromatography Resin Consumption Value by Type (2019-2024) & (USD Million)

Table 46. Global Protein A Chromatography Resin Consumption Value by Type (2025-2030) & (USD Million)

Table 47. Global Protein A Chromatography Resin Average Price by Type (2019-2024) & (USD/Unit)

Table 48. Global Protein A Chromatography Resin Average Price by Type (2025-2030) & (USD/Unit)

Table 49. Global Protein A Chromatography Resin Sales Quantity by Application (2019-2024) & (K Units)

Table 50. Global Protein A Chromatography Resin Sales Quantity by Application (2025-2030) & (K Units)

Table 51. Global Protein A Chromatography Resin Consumption Value by Application (2019-2024) & (USD Million)

Table 52. Global Protein A Chromatography Resin Consumption Value by Application (2025-2030) & (USD Million)

Table 53. Global Protein A Chromatography Resin Average Price by Application (2019-2024) & (USD/Unit)

Table 54. Global Protein A Chromatography Resin Average Price by Application (2025-2030) & (USD/Unit)

Table 55. North America Protein A Chromatography Resin Sales Quantity by Type (2019-2024) & (K Units)

Table 56. North America Protein A Chromatography Resin Sales Quantity by Type (2025-2030) & (K Units)

Table 57. North America Protein A Chromatography Resin Sales Quantity by Application (2019-2024) & (K Units)

Table 58. North America Protein A Chromatography Resin Sales Quantity by Application (2025-2030) & (K Units)

Table 59. North America Protein A Chromatography Resin Sales Quantity by Country (2019-2024) & (K Units)

Table 60. North America Protein A Chromatography Resin Sales Quantity by Country (2025-2030) & (K Units)

Table 61. North America Protein A Chromatography Resin Consumption Value by Country (2019-2024) & (USD Million)

Table 62. North America Protein A Chromatography Resin Consumption Value by Country (2025-2030) & (USD Million)

Table 63. Europe Protein A Chromatography Resin Sales Quantity by Type (2019-2024) & (K Units)

Table 64. Europe Protein A Chromatography Resin Sales Quantity by Type (2025-2030)

& (K Units)

Table 65. Europe Protein A Chromatography Resin Sales Quantity by Application (2019-2024) & (K Units)

Table 66. Europe Protein A Chromatography Resin Sales Quantity by Application (2025-2030) & (K Units)

Table 67. Europe Protein A Chromatography Resin Sales Quantity by Country (2019-2024) & (K Units)

Table 68. Europe Protein A Chromatography Resin Sales Quantity by Country (2025-2030) & (K Units)

Table 69. Europe Protein A Chromatography Resin Consumption Value by Country (2019-2024) & (USD Million)

Table 70. Europe Protein A Chromatography Resin Consumption Value by Country (2025-2030) & (USD Million)

Table 71. Asia-Pacific Protein A Chromatography Resin Sales Quantity by Type (2019-2024) & (K Units)

Table 72. Asia-Pacific Protein A Chromatography Resin Sales Quantity by Type (2025-2030) & (K Units)

Table 73. Asia-Pacific Protein A Chromatography Resin Sales Quantity by Application (2019-2024) & (K Units)

Table 74. Asia-Pacific Protein A Chromatography Resin Sales Quantity by Application (2025-2030) & (K Units)

Table 75. Asia-Pacific Protein A Chromatography Resin Sales Quantity by Region (2019-2024) & (K Units)

Table 76. Asia-Pacific Protein A Chromatography Resin Sales Quantity by Region (2025-2030) & (K Units)

Table 77. Asia-Pacific Protein A Chromatography Resin Consumption Value by Region (2019-2024) & (USD Million)

Table 78. Asia-Pacific Protein A Chromatography Resin Consumption Value by Region (2025-2030) & (USD Million)

Table 79. South America Protein A Chromatography Resin Sales Quantity by Type (2019-2024) & (K Units)

Table 80. South America Protein A Chromatography Resin Sales Quantity by Type (2025-2030) & (K Units)

Table 81. South America Protein A Chromatography Resin Sales Quantity by Application (2019-2024) & (K Units)

Table 82. South America Protein A Chromatography Resin Sales Quantity by Application (2025-2030) & (K Units)

Table 83. South America Protein A Chromatography Resin Sales Quantity by Country (2019-2024) & (K Units)

Table 84. South America Protein A Chromatography Resin Sales Quantity by Country (2025-2030) & (K Units)

Table 85. South America Protein A Chromatography Resin Consumption Value by Country (2019-2024) & (USD Million)

Table 86. South America Protein A Chromatography Resin Consumption Value by Country (2025-2030) & (USD Million)

Table 87. Middle East & Africa Protein A Chromatography Resin Sales Quantity by Type (2019-2024) & (K Units)

Table 88. Middle East & Africa Protein A Chromatography Resin Sales Quantity by Type (2025-2030) & (K Units)

Table 89. Middle East & Africa Protein A Chromatography Resin Sales Quantity by Application (2019-2024) & (K Units)

Table 90. Middle East & Africa Protein A Chromatography Resin Sales Quantity by Application (2025-2030) & (K Units)

Table 91. Middle East & Africa Protein A Chromatography Resin Sales Quantity by Region (2019-2024) & (K Units)

Table 92. Middle East & Africa Protein A Chromatography Resin Sales Quantity by Region (2025-2030) & (K Units)

Table 93. Middle East & Africa Protein A Chromatography Resin Consumption Value by Region (2019-2024) & (USD Million)

Table 94. Middle East & Africa Protein A Chromatography Resin Consumption Value by Region (2025-2030) & (USD Million)

Table 95. Protein A Chromatography Resin Raw Material

Table 96. Key Manufacturers of Protein A Chromatography Resin Raw Materials

Table 97. Protein A Chromatography Resin Typical Distributors

Table 98. Protein A Chromatography Resin Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Protein A Chromatography Resin Picture

Figure 2. Global Protein A Chromatography Resin Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Protein A Chromatography Resin Consumption Value Market Share by Type in 2023

Figure 4. Monoclonal Antibodies Examples

Figure 5. Non-antibody Protein Examples

Figure 6. Polyclonal Antibodies Examples

Figure 7. Others Examples

Figure 8. Global Protein A Chromatography Resin Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 9. Global Protein A Chromatography Resin Consumption Value Market Share by Application in 2023

Figure 10. Research Examples

Figure 11. Pharmaceuticals Examples

Figure 12. Global Protein A Chromatography Resin Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global Protein A Chromatography Resin Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global Protein A Chromatography Resin Sales Quantity (2019-2030) & (K Units)

Figure 15. Global Protein A Chromatography Resin Average Price (2019-2030) & (USD/Unit)

Figure 16. Global Protein A Chromatography Resin Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global Protein A Chromatography Resin Consumption Value Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of Protein A Chromatography Resin by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 19. Top 3 Protein A Chromatography Resin Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Top 6 Protein A Chromatography Resin Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Global Protein A Chromatography Resin Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global Protein A Chromatography Resin Consumption Value Market Share by Region (2019-2030)

Figure 23. North America Protein A Chromatography Resin Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe Protein A Chromatography Resin Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific Protein A Chromatography Resin Consumption Value (2019-2030) & (USD Million)

Figure 26. South America Protein A Chromatography Resin Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa Protein A Chromatography Resin Consumption Value (2019-2030) & (USD Million)

Figure 28. Global Protein A Chromatography Resin Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global Protein A Chromatography Resin Consumption Value Market Share by Type (2019-2030)

Figure 30. Global Protein A Chromatography Resin Average Price by Type (2019-2030) & (USD/Unit)

Figure 31. Global Protein A Chromatography Resin Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global Protein A Chromatography Resin Consumption Value Market Share by Application (2019-2030)

Figure 33. Global Protein A Chromatography Resin Average Price by Application (2019-2030) & (USD/Unit)

Figure 34. North America Protein A Chromatography Resin Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America Protein A Chromatography Resin Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America Protein A Chromatography Resin Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America Protein A Chromatography Resin Consumption Value Market Share by Country (2019-2030)

Figure 38. United States Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe Protein A Chromatography Resin Sales Quantity Market Share by

Type (2019-2030)

Figure 42. Europe Protein A Chromatography Resin Sales Quantity Market Share by Application (2019-2030)

Figure 43. Europe Protein A Chromatography Resin Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe Protein A Chromatography Resin Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific Protein A Chromatography Resin Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific Protein A Chromatography Resin Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific Protein A Chromatography Resin Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific Protein A Chromatography Resin Consumption Value Market Share by Region (2019-2030)

Figure 54. China Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America Protein A Chromatography Resin Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America Protein A Chromatography Resin Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America Protein A Chromatography Resin Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America Protein A Chromatography Resin Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa Protein A Chromatography Resin Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa Protein A Chromatography Resin Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa Protein A Chromatography Resin Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa Protein A Chromatography Resin Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa Protein A Chromatography Resin Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Protein A Chromatography Resin Market Drivers

Figure 75. Protein A Chromatography Resin Market Restraints

Figure 76. Protein A Chromatography Resin Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Protein A Chromatography Resin in 2023

Figure 79. Manufacturing Process Analysis of Protein A Chromatography Resin

Figure 80. Protein A Chromatography Resin Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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