

Global Chromatography Resin Market Size Study & Forecast, by Type (Natural, Synthetic, Inorganic), By Technique (Ion exchange, Affinity, Hydrophobic interaction, Size exclusion, Others), By End-Use (Pharmaceutical & Biotechnology, Food & Beverage), and Regional Analysis, 2023-2030

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Abstracts

Global Chromatography Resin Market is valued at approximately USD 2.31 billion in 2022 and is anticipated to grow with a growth rate of more than 6.8% over the forecast period 2023-2030. Chromatography resin is a small, porous, bead-shaped material employed in the chromatographic separation process. It acts as the stationary phase in the chromatography column, where it interacts with the components of a mixture that flows through it (the mobile phase). These interactions induce separation among the components, driven by their distinct chemical and physical characteristics.

Chromatography is used across a diverse spectrum of uses, primarily serving the purpose of isolating intricate mixtures. This technique enables the separation of compounds by factors such as molecular weight, size, ionic mobility, boiling point, polarity, and more. Due to these versatile properties, it is extensively utilized in pharmaceuticals, biotechnology, and the food and beverage industries, particularly for chromatography resin testing purposes. The soaring demand for therapeutic antibodies, rise in use of biosimilars, growing concern regarding food safety, coupled with the rising inclination towards disposable pre-packed columns are the key factors that are primarily attributing to the market demand across the globe.

In addition, the stipulating demand for chromatography in drug development and omics research plays a pivotal role for the market demand at a substantial rate.

Chromatography is a widely available and highly adaptable separation technology. It is

essential to distinguish many produced, closely similar molecules in the early phases of drug development. It is crucial to identify them and evaluate how pure they are. Chromatography techniques are commonly employed for these objectives. Chromatography equipment is widely used for raw material, excipient, and active pharmaceutical ingredient (API) separation, purification, and analysis. According to Statista, it is anticipated that by 2025, the global drug discovery market account for USD 71 billion, which is a rise from USD 35.2 billion in 2016. Consequently, there is rising need for chromatography resins in a number of nations due to the rising need for high-quality pharmaceuticals and the implementation of strict regulatory restrictions. Moreover, the growing pharmaceutical and biopharmaceutical R&D activities, as well as emerging use of chromatography in proteomics present various lucrative opportunities over the forecast years. However, the high cost of chromatography resins and the presence of alternative technologies to chromatography are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Chromatography Resin Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the rising interest in utilizing monoclonal antibodies in various therapeutic areas and increasing global demand for drug discovery aimed at combating diseases such as Ebola, Zika, and others. Furthermore, advanced chromatographic techniques are gaining traction for applications in food analysis and diagnostics across both the United States and Canada. Whereas, Asia Pacific is expected to grow at the highest CAGR over the forecast years. The rising research and development facilities operated by global pharmaceutical companies, as well as rising governmental backing for domestic manufacturing are significantly propelling the market demand across the region.

Major market players included in this report are:

Merck KGaA

Bio - Rad Laboratories, Inc.

Thermo Fisher Scientific

Wipro Ge Healthcare Pvt Ltd

Purolite

W. R. Grace & Co.

Mitsubishi Chemical Holdings Corporation

Danaher Corporation

Kaneka Corporation

Sepragen Corporation

Recent Developments in the Market:

In October 2021, Tosoh Bioscience LLC, a subsidiary of Tosoh Corporation, completed the acquisition of Semba Biosciences, a leading innovator in the field of multi-column chromatography (MCC) instrumentation and technology, especially in the downstream purification of biologics. This initiative supports Tosoh Biosciences to strengthen and expand its business related to chromatography resins.

In April 2020, Bio-Rad Laboratories, Inc. unveiled its SARS-CoV-2 Total Ab test, a blood-based immunoassay kit. Tailored for the detection of antibodies developed in response to SARS-CoV-2, the virus responsible for COVID-19, this test is adept at identifying IgG, IgM, and IgA antibodies. Its unique feature lies in offering a more comprehensive approach compared to tests targeting a single immunoglobulin. By detecting multiple immunoglobulins, the assay's sensitivity is heightened, ensuring more precise outcomes in discerning the presence of antibodies against SARS-CoV-2.

Global Chromatography Resin Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Technique, End-Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Natural

Synthetic

Inorganic

By Technique:

Ion exchange

Affinity

Hydrophobic interaction

Size exclusion

Others

By End-Use:

Pharmaceutical & Biotechnology

Food & Beverage

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Chromatography Resin Market, by region, 2020-2030 (USD Billion)
 - 1.2.2. Chromatography Resin Market, by Type, 2020-2030 (USD Billion)
 - 1.2.3. Chromatography Resin Market, by Technique, 2020-2030 (USD Billion)
 - 1.2.4. Chromatography Resin Market, by End-Use, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL CHROMATOGRAPHY RESIN MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL CHROMATOGRAPHY RESIN MARKET DYNAMICS

- 3.1. Chromatography Resin Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing demand for chromatography in drug development and omics research
 - 3.1.1.2. Growing concern regarding food safety
 - 3.1.2. Market Challenges
 - 3.1.2.1. High cost of chromatography resins
 - 3.1.2.2. Presence of alternative technologies to chromatography
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Growing pharmaceutical and biopharmaceutical R&D activities
 - 3.1.3.2. Emerging use of chromatography in proteomics

CHAPTER 4. GLOBAL CHROMATOGRAPHY RESIN MARKET: INDUSTRY

ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economic
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL CHROMATOGRAPHY RESIN MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Chromatography Resin Market by Type, Performance - Potential Analysis
- 5.3. Global Chromatography Resin Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Chromatography Resin Market, Sub Segment Analysis
 - 5.4.1. Natural
 - 5.4.2. Synthetic
 - 5.4.3. Inorganic

CHAPTER 6. GLOBAL CHROMATOGRAPHY RESIN MARKET, BY TECHNIQUE

- 6.1. Market Snapshot
- 6.2. Global Chromatography Resin Market by Technique, Performance - Potential Analysis

6.3. Global Chromatography Resin Market Estimates & Forecasts by Technique
2020-2030 (USD Billion)

6.4. Chromatography Resin Market, Sub Segment Analysis

6.4.1. Ion exchange

6.4.2. Affinity

6.4.3. Hydrophobic interaction

6.4.4. Size exclusion

6.4.5. Others

CHAPTER 7. GLOBAL CHROMATOGRAPHY RESIN MARKET, BY END-USE

7.1. Market Snapshot

7.2. Global Chromatography Resin Market by End-Use, Performance - Potential
Analysis

7.3. Global Chromatography Resin Market Estimates & Forecasts by End-Use
2020-2030 (USD Billion)

7.4. Chromatography Resin Market, Sub Segment Analysis

7.4.1. Pharmaceutical & Biotechnology

7.4.2. Food & Beverage

CHAPTER 8. GLOBAL CHROMATOGRAPHY RESIN MARKET, REGIONAL ANALYSIS

8.1. Top Leading Countries

8.2. Top Emerging Countries

8.3. Chromatography Resin Market, Regional Market Snapshot

8.4. North America Chromatography Resin Market

8.4.1. U.S. Chromatography Resin Market

8.4.1.1. Type breakdown estimates & forecasts, 2020-2030

8.4.1.2. Technique breakdown estimates & forecasts, 2020-2030

8.4.1.3. End-Use breakdown estimates & forecasts, 2020-2030

8.4.2. Canada Chromatography Resin Market

8.5. Europe Chromatography Resin Market Snapshot

8.5.1. U.K. Chromatography Resin Market

8.5.2. Germany Chromatography Resin Market

8.5.3. France Chromatography Resin Market

8.5.4. Spain Chromatography Resin Market

8.5.5. Italy Chromatography Resin Market

8.5.6. Rest of Europe Chromatography Resin Market

- 8.6. Asia-Pacific Chromatography Resin Market Snapshot
 - 8.6.1. China Chromatography Resin Market
 - 8.6.2. India Chromatography Resin Market
 - 8.6.3. Japan Chromatography Resin Market
 - 8.6.4. Australia Chromatography Resin Market
 - 8.6.5. South Korea Chromatography Resin Market
 - 8.6.6. Rest of Asia Pacific Chromatography Resin Market
- 8.7. Latin America Chromatography Resin Market Snapshot
 - 8.7.1. Brazil Chromatography Resin Market
 - 8.7.2. Mexico Chromatography Resin Market
- 8.8. Middle East & Africa Chromatography Resin Market
 - 8.8.1. Saudi Arabia Chromatography Resin Market
 - 8.8.2. South Africa Chromatography Resin Market
 - 8.8.3. Rest of Middle East & Africa Chromatography Resin Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Merck KGaA
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Recent Developments
 - 9.3.2. Bio - Rad Laboratories, Inc.
 - 9.3.3. Thermo Fisher Scientific
 - 9.3.4. Wipro Ge Healthcare Pvt Ltd
 - 9.3.5. Purolite
 - 9.3.6. W. R. Grace & Co.
 - 9.3.7. Mitsubishi Chemical Holdings Corporation
 - 9.3.8. Danaher Corporation
 - 9.3.9. Kaneka Corporation
 - 9.3.10. Sepragen Corporation

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

10.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Chromatography Resin Market, report scope

TABLE 2. Global Chromatography Resin Market estimates & forecasts by region
2020-2030 (USD Billion)

TABLE 3. Global Chromatography Resin Market estimates & forecasts by Type
2020-2030 (USD Billion)

TABLE 4. Global Chromatography Resin Market estimates & forecasts by Technique
2020-2030 (USD Billion)

TABLE 5. Global Chromatography Resin Market estimates & forecasts by End-Use
2020-2030 (USD Billion)

TABLE 6. Global Chromatography Resin Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 7. Global Chromatography Resin Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 8. Global Chromatography Resin Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 9. Global Chromatography Resin Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 10. Global Chromatography Resin Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 11. Global Chromatography Resin Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 12. Global Chromatography Resin Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 13. Global Chromatography Resin Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 14. Global Chromatography Resin Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 15. Global Chromatography Resin Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 16. U.S. Chromatography Resin Market estimates & forecasts, 2020-2030 (USD
Billion)

TABLE 17. U.S. Chromatography Resin Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 18. U.S. Chromatography Resin Market estimates & forecasts by segment
2020-2030 (USD Billion)

TABLE 19. Canada Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 20. Canada Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 26. Germany Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 29. France Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 35. Spain Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. RoE Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 40. China Chromatography Resin Market estimates & forecasts, 2020-2030

(USD Billion)

TABLE 41. China Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 42. China Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 43. India Chromatography Resin Market estimates & forecasts, 2020-2030

(USD Billion)

TABLE 44. India Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 45. India Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 46. Japan Chromatography Resin Market estimates & forecasts, 2020-2030

(USD Billion)

TABLE 47. Japan Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 48. Japan Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 49. South Korea Chromatography Resin Market estimates & forecasts,

2020-2030 (USD Billion)

TABLE 50. South Korea Chromatography Resin Market estimates & forecasts by

segment 2020-2030 (USD Billion)

TABLE 51. South Korea Chromatography Resin Market estimates & forecasts by

segment 2020-2030 (USD Billion)

TABLE 52. Australia Chromatography Resin Market estimates & forecasts, 2020-2030

(USD Billion)

TABLE 53. Australia Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 54. Australia Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 55. RoAPAC Chromatography Resin Market estimates & forecasts, 2020-2030

(USD Billion)

TABLE 56. RoAPAC Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 57. RoAPAC Chromatography Resin Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 58. Brazil Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 59. Brazil Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 62. Mexico Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 65. RoLA Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. Saudi Arabia Chromatography Resin Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 68. South Africa Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. RoMEA Chromatography Resin Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Chromatography Resin Market

TABLE 71. List of primary sources, used in the study of global Chromatography Resin Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Chromatography Resin Market, research methodology
 - FIG 2. Global Chromatography Resin Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Chromatography Resin Market, key trends 2022
 - FIG 5. Global Chromatography Resin Market, growth prospects 2023-2030
 - FIG 6. Global Chromatography Resin Market, porters 5 force model
 - FIG 7. Global Chromatography Resin Market, pest analysis
 - FIG 8. Global Chromatography Resin Market, value chain analysis
 - FIG 9. Global Chromatography Resin Market by segment, 2020 & 2030 (USD Billion)
 - FIG 10. Global Chromatography Resin Market by segment, 2020 & 2030 (USD Billion)
 - FIG 11. Global Chromatography Resin Market by segment, 2020 & 2030 (USD Billion)
 - FIG 12. Global Chromatography Resin Market by segment, 2020 & 2030 (USD Billion)
 - FIG 13. Global Chromatography Resin Market by segment, 2020 & 2030 (USD Billion)
 - FIG 14. Global Chromatography Resin Market, regional snapshot 2020 & 2030
 - FIG 15. North America Chromatography Resin Market 2020 & 2030 (USD Billion)
 - FIG 16. Europe Chromatography Resin Market 2020 & 2030 (USD Billion)
 - FIG 17. Asia pacific Chromatography Resin Market 2020 & 2030 (USD Billion)
 - FIG 18. Latin America Chromatography Resin Market 2020 & 2030 (USD Billion)
 - FIG 19. Middle East & Africa Chromatography Resin Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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