

Global Prepacked Chromatography Columns Market Size Study, by Resin Type (Affinity, Ion Exchange, Hydrophobic Interaction), by Volume Type (1000 ml), by End User (Pharmaceutical Industry, Research & Academic Institutes, Hospitals & Clinics, Food & Beverage Companies, Others) and Regional Forecasts 2022-2032

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Abstracts

Global Prepacked Chromatography Columns Market is valued approximately at USD 2.58 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.44% over the forecast period 2024-2032. Chromatography column is a preparative technique used to separate compounds based on their polarity or hydrophobicity. Prepacked columns are pre-filled with the stationary phase and can directly be attached to chromatographic systems. These columns offer several advantages, such as easy setup, validation, and cleaning, as well as reduced labor and time investment for maintenance and application. The technological advancements in prepacked chromatography columns, increasing demand for process development and affordable purification of biological drugs, and higher dependence on chromatography tests for drug approvals are the key factors driving the demand for these products and propelling market growth.

The market is experiencing significant growth due to continuous technological advancements. Manufacturers are introducing innovative products for downstream processes, such as salt-tolerant robust adsorber devices and newer ionic ligand technologies, which cater to end-user demands. The growing demand for process development and affordable purification of biological drugs and the higher dependence on chromatography tests for drug approvals are also major drivers of the market.

However, the market faces restraints due to a dearth of skilled professionals needed to run column chromatography techniques and implement the results in various industries, such as pharmaceuticals, nutraceuticals, food & beverage, and agriculture. Additionally, the availability of cheaper alternatives with in-house packing of columns may hinder market growth. The market presents numerous opportunities, particularly with increasing investments in pharmaceutical research activities. Prepacked chromatography columns are extensively used for the separation of various pharmaceutical compounds. The rise in R&D activities in the pharmaceutical and biopharmaceutical sectors has led to the emergence of several startups and clinical-stage companies that rely on leading players and investment firms for technology transfer and scaling up production processes. Increased investment in R&D processes is expected to support the growth of the prepacked chromatography columns market during the forecast period.

The key region in the Global Prepacked Chromatography Columns Market include North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. In 2023, North America dominates the market in term of revenue due to its advanced research and development infrastructure, high level of pharmaceutical and biotechnology activity, and substantial investment in scientific innovation. The region's well-established healthcare and research institutions drive the demand for sophisticated analytical tools, including prepacked chromatography columns, which are essential for high-throughput analysis and quality control in drug development and production. Additionally, North America's strong regulatory framework and significant presence of major chromatography companies enhance market growth. The combination of these factors positions North America as a leader in the prepacked chromatography columns market. Europe is driven by rising R&D expenditures by biopharmaceutical companies and the presence of key market players. The Asia-Pacific region is expected to be the fastest-growing market due to rapidly improving healthcare infrastructure, establishment of research organizations, and significant investments in biotechnology.

Major market players included in this report are:

Danaher Corporation

Repligen Corporation

Merck KGaA

Agilent Technologies, Inc.

Sartorius AG

Bio-Rad Laboratories, Inc.

Thermo Fisher Scientific Inc.

Proxcys B.V.

Antylia Scientific

Tosoh Corporation

The detailed segments and sub-segment of the market are explained below:

By Resin Type:

Affinity

Ion Exchange

Hydrophobic Interaction

By Volume Type:

Contents

CHAPTER 1. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET EXECUTIVE SUMMARY

- 1.1. Global Prepacked Chromatography Columns Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Resin Type
 - 1.3.2. By Volume Type
 - 1.3.3. By End User
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET

Global Prepacked Chromatography Columns Market Size Study, by Resin Type (Affinity, Ion Exchange, Hydrophobic...

DYNAMICS

3.1. Market Drivers

3.1.1. Technological advancements in prepacked chromatography columns

3.1.2. Increasing demand for process development and affordable purification of biological drugs

3.1.3. Higher dependence on chromatography tests for drug approvals

3.2. Market Challenges

3.2.1. Dearth of skilled professionals

3.2.2. Availability of cheaper alternatives with in-house packing of columns

3.3. Market Opportunities

3.3.1. Increasing investment in pharmaceutical research activities

3.3.2. Expanding use of chromatography columns in various industries

CHAPTER 4. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS 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

4.1.6. Futuristic Approach to Porter's 5 Force Model

4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET

SIZE & FORECASTS BY RESIN TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global Prepacked Chromatography Columns Market: Resin Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Affinity

5.2.2. Ion Exchange

5.2.3. Hydrophobic Interaction

CHAPTER 6. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET SIZE & FORECASTS BY VOLUME TYPE 2022-2032

6.1. Segment Dashboard

6.2. Global Prepacked Chromatography Columns Market: Volume Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. 1000 ml

CHAPTER 7. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET SIZE & FORECASTS BY END USER 2022-2032

7.1. Segment Dashboard

7.2. Global Prepacked Chromatography Columns Market: End User Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Pharmaceutical Industry

7.2.2. Research & Academic Institutes

7.2.3. Hospitals & Clinics

7.2.4. Food & Beverage Companies

7.2.5. Others

CHAPTER 8. GLOBAL PREPACKED CHROMATOGRAPHY COLUMNS MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Prepacked Chromatography Columns Market

8.1.1. U.S. Prepacked Chromatography Columns Market

8.1.1.1. Resin Type breakdown size & forecasts, 2022-2032

8.1.1.2. Volume Type breakdown size & forecasts, 2022-2032

8.1.1.3. End User breakdown size & forecasts, 2022-2032

8.1.2. Canada Prepacked Chromatography Columns Market

8.2. Europe Prepacked Chromatography Columns Market

- 8.2.1. U.K. Prepacked Chromatography Columns Market
- 8.2.2. Germany Prepacked Chromatography Columns Market
- 8.2.3. France Prepacked Chromatography Columns Market
- 8.2.4. Spain Prepacked Chromatography Columns Market
- 8.2.5. Italy Prepacked Chromatography Columns Market
- 8.2.6. Rest of Europe Prepacked Chromatography Columns Market
- 8.3. Asia-Pacific Prepacked Chromatography Columns Market
 - 8.3.1. China Prepacked Chromatography Columns Market
 - 8.3.2. India Prepacked Chromatography Columns Market
 - 8.3.3. Japan Prepacked Chromatography Columns Market
 - 8.3.4. Australia Prepacked Chromatography Columns Market
 - 8.3.5. South Korea Prepacked Chromatography Columns Market
 - 8.3.6. Rest of Asia Pacific Prepacked Chromatography Columns Market
- 8.4. Latin America Prepacked Chromatography Columns Market
 - 8.4.1. Brazil Prepacked Chromatography Columns Market
 - 8.4.2. Mexico Prepacked Chromatography Columns Market
 - 8.4.3. Rest of Latin America Prepacked Chromatography Columns Market
- 8.5. Middle East & Africa Prepacked Chromatography Columns Market
 - 8.5.1. Saudi Arabia Prepacked Chromatography Columns Market
 - 8.5.2. South Africa Prepacked Chromatography Columns Market
 - 8.5.3. Rest of Middle East & Africa Prepacked Chromatography Columns 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. Danaher Corporation
 - 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. Market Strategies
 - 9.3.2. Repligen Corporation
 - 9.3.3. Merck KGaA
 - 9.3.4. Agilent Technologies, Inc.

- 9.3.5. Sartorius AG
- 9.3.6. Bio-Rad Laboratories, Inc.
- 9.3.7. Thermo Fisher Scientific Inc.
- 9.3.8. Proxcys B.V.
- 9.3.9. Antylia Scientific
- 9.3.10. Tosoh 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

List Of Tables

LIST OF TABLES

- TABLE 1. Global Prepacked Chromatography Columns market, report scope
- TABLE 2. Global Prepacked Chromatography Columns market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Prepacked Chromatography Columns market estimates & forecasts by Resin Type 2022-2032 (USD Billion)
- TABLE 4. Global Prepacked Chromatography Columns market estimates & forecasts by Volume Type 2022-2032 (USD Billion)
- TABLE 5. Global Prepacked Chromatography Columns market estimates & forecasts by End User 2022-2032 (USD Billion)
- TABLE 6. Global Prepacked Chromatography Columns market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 7. Global Prepacked Chromatography Columns market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Prepacked Chromatography Columns market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Prepacked Chromatography Columns market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Prepacked Chromatography Columns market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Prepacked Chromatography Columns market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Prepacked Chromatography Columns market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Prepacked Chromatography Columns market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Prepacked Chromatography Columns market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Prepacked Chromatography Columns market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Prepacked Chromatography Columns market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Prepacked Chromatography Columns market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Prepacked Chromatography Columns market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Prepacked Chromatography Columns market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Prepacked Chromatography Columns market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

FIG 1. Global Prepacked Chromatography Columns market, research methodology

FIG 2. Global Prepacked Chromatography Columns market, market estimation techniques

FIG 3. Global market size estimates & forecast methods

FIG 4. Global Prepacked Chromatography Columns market, key trends 2023

FIG 5. Global Prepacked Chromatography Columns market, growth prospects 2022-2032

FIG 6. Global Prepacked Chromatography Columns market, porters 5 force model

FIG 7. Global Prepacked Chromatography Columns market, PESTEL analysis

FIG 8. Global Prepacked Chromatography Columns market, value chain analysis

FIG 9. Global Prepacked Chromatography Columns market by segment, 2022 & 2032 (USD Billion)

FIG 10. Global Prepacked Chromatography Columns market by segment, 2022 & 2032 (USD Billion)

FIG 11. Global Prepacked Chromatography Columns market by segment, 2022 & 2032 (USD Billion)

FIG 12. Global Prepacked Chromatography Columns market by segment, 2022 & 2032 (USD Billion)

FIG 13. Global Prepacked Chromatography Columns market by segment, 2022 & 2032 (USD Billion)

FIG 14. Global Prepacked Chromatography Columns market, regional snapshot 2022 & 2032

FIG 15. North America Prepacked Chromatography Columns market 2022 & 2032 (USD Billion)

FIG 16. Europe Prepacked Chromatography Columns market 2022 & 2032 (USD Billion)

FIG 17. Asia pacific Prepacked Chromatography Columns market 2022 & 2032 (USD Billion)

FIG 18. Latin America Prepacked Chromatography Columns market 2022 & 2032 (USD Billion)

FIG 19. Middle East & Africa Prepacked Chromatography Columns market 2022 & 2032 (USD Billion)

FIG 20. Global Prepacked Chromatography Columns market, company market share analysis (2023)

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