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Chromatography Columns Market Research Report—Global Forecast till 2030

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Description:

Global Chromatography Columns Market Overview

The Chromatography Columns Market Size was valued at USD 12.5 billion in 2022 and is projected to grow from USD 13.22 Billion in 2023 to USD 18.54 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 5.80% during the forecast period (2023 – 2030). A rise in life science research and development costs, increasing demand for biopharmaceutical goods and increased monoclonal antibody manufacturing. These are just a few of the market drivers that are driving the market.

Chromatography Columns Market
Source: Secondary and Primary Research, MRFR Database and Analyst Review

Chromatography Columns Market Trends

- Chromatography Column Use is Growing, and Government Initiatives Are Increasing will boost the market growth

Chromatography columns are used in many different types of businesses. The most important element fueling the growth of this market is the expanding use of chromatography columns in pharmaceutical, biotechnology, and other industries. The increasing government spending and financing encouraged the employment of sophisticated chromatographic techniques in the pharmaceutical and biotechnology sectors, which is anticipated to support market expansion. The governing authorities' many subsidies have also contributed to the market's acceleration of expansion.

The market is anticipated to increase as a result of growing monoclonal antibody manufacturing and rising biopharmaceutical product demand. The expansion of protein and monoclonal antibody treatments, process development and the efficient purification of biological pharmaceuticals will all contribute to the market's expansion. Growing Research Activities Will Offer Opportunities for Growth. Furthermore, life science companies' significant investments in R & D and the rising importance of chromatography studies in medication approval would provide attractive market prospects. Numerous market expansion chances will also be furthered by the rising costs of life sciences research and development. Thus, this factor is driving the market CAGR.

The market is projected to expand due to rising demand and a need for pharmaceutical items of high quality that meet international standards. Additionally, advantages, including lower labor costs, operational flexibility, less time consumption, and high productivity provided by prepackaged chromatography columns, are projected to fuel the market's expansion throughout the projection period.

The dominant corporations' fresh product launches, mergers, and acquisitions also help the market expand. For instance, in January 2019, the Shimadzu Corporation unveiled its preparatory purification liquid chromatography line, the Nexera prep series. This development will aid in the analysis's target molecule extraction. Additionally, it will increase productivity through efficient preparatory work employing LC or an LCMS. Thus, it is anticipated that this aspect will accelerate Chromatography Columns' market revenue globally.

Chromatography Columns Market Segment Insights

Chromatography Columns Column Type Insights

The Chromatography Columns Market segmentation, based on Column Type, includes Normal Phase Chromatography Columns, Prepacked Chromatography Columns, and Automated Chromatography Columns. The Prepacked Chromatography Columns segment held the majority share in 2022 in the Chromatography Columns Market data. The market for prepacked chromatography columns is expected to expand since they come in a variety of sizes and resin combinations. The tedious, time-consuming operation of packing chromatography columns may be managed with prepacked columns, freeing up more time for processing your product. They are ideally suited for bench-scale screening, small-scale preparative chromatography, process development, and high throughput screening.

Figure 1: Chromatography Columns Market, by Column type, 2022 & 2030 (USD Billion)
Chromatography Columns Market, by Column type, 2022 & 2030 (USD Billion)
Source: Secondary and Primary Research, MRFR Database and Analyst Review

Chromatography Columns Chromatography Type Insights

The Chromatography Columns Market segmentation, based on Chromatography Type, includes Ion Exchange Chromatography, Affinity Chromatography, Gas Chromatography, and Size Exclusion Chromatography. The Ion Exchange Chromatography segment dominated the market growth in 2022 and is projected to be the faster-growing segment during the forecast period, 2022-2030. Ion exchange chromatography is used in nutrition research to study proteins from foods, such as to look into the impact of certain dietary components on health. Separating valuable proteins from other compounds. Examination of drinking water for contaminants and other elements. In the regular examination of amino acid combinations, it is also helpful.

Chromatography Columns Application Insights

Based on application, the Chromatography Columns Market data includes Anion & Cation Exchange, Sample Preparation, Resin Screening, Protein Purification, and Desalting. The Sample Preparation segment dominated the Chromatography Columns market revenue in 2022 and is projected to be the faster-growing segment during the forecast period, 2022-2030. Sample preparation is the most important phase in the chromatographic process to examine the precise data from the chromatographic method. Releasing the analytes from the matrix is a more vital method that improves the matrix's suitability for analysis. Making samples quickly aids in the removal of impediments to the chromatographic process.

Chromatography Columns End User Insights

The Chromatography Columns Market data, based on End Users, includes Research Institutes, Pharmaceutical Biotechnology Companies, Food & Beverage Manufacturers and others. The Pharmaceutical Biotechnology Companies segment dominated the Chromatography Columns market revenue in 2022 and is projected to be the faster-growing segment during the forecast period, 2022-2030. Due to an increase in the use of chromatography techniques by pharmaceutical and biotechnology companies for a variety of purposes, including drug development and validation, identifying and analyzing samples for the presence of chemicals or trace elements, preparing large quantities of extremely pure materials, separating chiral compounds, and determining the purity of mixtures and the presence of unknown compounds.

Chromatography Columns Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific and the Rest of the World. The North America Chromatography Columns market accounted for USD 5.72 billion in 2022 with a share of around 45.80% and is expected to exhibit a significant CAGR growth during the study period. Due to North America's experience in R&D across all industries, the region controlled the industry, and the market for chromatography columns will provide sizable profits. It is projected that developed nations like the USA and Canada, engaged in considerable pharmaceutical R&D, will dominate the market for chromatography columns. Additionally, there are several significant biopharmaceutical and biotechnological firms in the area, and there is an increase in R&D activity in the field of life sciences. Additionally, the market is anticipated to reach a new milestone because of the increased emphasis on technological advancement in healthcare and medical sciences.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: CHROMATOGRAPHY COLUMNS MARKET SHARE BY REGION 2022 (%)

CHROMATOGRAPHY COLUMNS MARKET SHARE BY REGION 2022 (%)

Source: Secondary and Primary Research, MRFR Database and Analyst Review

Europe's chromatography column market was anticipated to have a sizable market share. Additionally, Europe is home to several significant businesses in the area, including KNAUER WissenschaftlicheGeräte GmbH, Biotage (Sweden), and Merck KGaA (Germany) (Germany). Introducing new goods by these major companies also contributes to the market's expansion. For instance, new liquid chromatography columns and media for protein purification were introduced by KNAUER WissenschaftlicheGeräte GmbH (Germany) in March 2019. These products may be used for various chromatography methods, including affinity, size exclusion, and IEX chromatography. Moreover, the UK Chromatography Columns market held the largest market share, and the Germany Chromatography Columns market was the fastest-growing market in the region.

Asia Pacific chromatography column market was anticipated to have a significant market share In this area, countries like Japan have established healthcare infrastructure and housing important corporate headquarters like Daicel Corporation (Japan) and Shimadzu Corporation (Japan). In contrast, the healthcare R&D sector is quickly increasing in nations like India. China has been spending the most on R&D until 2020 when it climbed by 10.3% to USD 378 billion. The Asia-Pacific area can expand at the greatest CAGR throughout the predicted period because of these factors. The chromatography columns market in the area is expanding as a result of increased R&D expenditures, expanding illness burden, and bettering healthcare infrastructure. Further, the China Chromatography Columns market held the largest market share, and the India Chromatography Columns market was the fastest-growing market in the region.

Chromatography Columns Key Market Players & Competitive Insights

Major industry companies are investing a lot of money in R&D to expand their product offerings, which will spur further market expansion for the Chromatography Columns industry. With significant industry changes, including new product launches, mergers and acquisitions, contractual agreements, higher investments, and collaboration with other organizations, market developments are also undertaking a variety of strategic activities to expand their global presence. Competitors in the Chromatography Columns market need to offer reasonably priced items if they want to expand and survive in a sector that is getting more and more competitive.

One of the primary business strategies used by manufacturers in the Chromatography Columns Market to serve clients and expand the market sector is local manufacturing to reduce operating costs. The Chromatography Columns industry has recently given medicine some of the most important advantages. The Chromatography Columns market major player such as Merck KGaA (Germany), Thermo Fisher Scientific Inc. (US), Agilent Technologies Inc. (US), Daicel Corporation (Japan), Shimadzu Corporation (Japan), PerkinElmer Inc. (US), Bio-Rad Laboratories Inc. (US), Biotage (Sweden), Waters (US), KNAUER WissenschaftlicheGeräte GmbH (Germany), Tosoh Corporation (Japan) Company.

Milford, Massachusetts-based Waters Corporation is a publicly listed software and equipment manufacturer for analytical laboratories. Waters targets market segments for lab-dependent organizations: liquid chromatography, mass spectrometry, supercritical fluid chromatography, laboratory informatics, rheometry, and microcalorimetry. The

Waters ACQUITY PREMIER Solution, a next-generation liquid chromatography product from Waters (US), was introduced in February 2021. It has MaxPeakHigh-Performance Surface (HPS) technology, which enhances analyte recovery, repeatability, and analyte/metal surface interaction problems. Waters has a broad selection of column portfolios, including size exclusion chromatography, HPLC, and Ultra-Performance Liquid Chromatography (UPLC) columns. The business was established in Massachusetts, the United States, in 1958 and had revenues of USD 1,497 million in 2020.

Thermo Fisher Scientific Inc. will simplify complex Bottom-up proteomics studies starting in June 2022. Only in combination with the Thermo Scientific Vanquish Neo UHPLC System and Thermo Scientific Orbitrap Mass Spectrometers will the Thermo Scientific PAC Neo HPLC Column be available for pre-order, enabling a comprehensive single-solution LC-MS workflow with a detailed starting procedure. Customers may speed up their experimental setup since they know that all process components will run well.

Key Companies in the Chromatography Columns market include

- Merck KGaA (Germany)
- Thermo Fisher Scientific Inc. (US)
- Agilent Technologies Inc. (US)
- Daicel Corporation (Japan)
- Shimadzu Corporation (Japan)
- PerkinElmer Inc. (US)
- Bio-Rad Laboratories Inc. (US)
- Biotage (Sweden)
- Waters (US)
- KNAUER Wissenschaftliche Geräte GmbH (Germany)
- Tosoh Corporation (Japan)

Chromatography Columns Industry Developments

- **May 2022:** Tosoh Bioscience LLC, a supplier of chromatographic solutions for the separation of biomolecules, has released the TSKgel UP-SW30000-LS size exclusion chromatography (SEC) columns. Tosoh Bioscience LLC is selling these columns in the Americas; they are the most recent addition to the TSKgel UP-SW series.
- **February 2022:** To promote the long-term growth aim of the life science business sector and better meet the changing demands of its international clients, Merck, a well-known scientific and technological company, has announced numerous organizational changes and a new operating model.
- **November 2021:** The creator of the PAC series of micro-chip-based chromatography columns, PharmaFluidics, a firm located in Belgium, was acquired by Thermo Fisher Scientific, the market leader in services for the scientific community.

Chromatography Columns Market Segmentation

Chromatography Columns Column Type Outlook (USD Million, 2018-2030)

- Normal Phase Chromatography Columns
- Prepacked Chromatography Columns
- Automated Chromatography Columns

Chromatography Columns Chromatography Type Outlook (USD Million, 2018-2030)

- Ion Exchange Chromatography
- Affinity Chromatography
- Gas chromatography
- Gel Filtration Chromatography
- Others

Chromatography Columns Application Outlook (USD Million, 2018-2030)

- Anion and Cation Exchange
- Sample Preparation
- Resin Screening
- Protein Purification
- Desalting

Chromatography Columns End-User Outlook (USD Million, 2018-2030)

- Research Institutes
- Pharmaceutical Biotechnology Companies
- Food & Beverage Manufacturers
- Others

Chromatography Columns Regional Outlook (USD Billion, 2018-2030)

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World
 - Middle East

- Africa
- Latin America

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