

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

<https://marketpublishers.com/r/G9897CAF09A1EN.html>

Date: January 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G9897CAF09A1EN

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

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