

# IQ4I Research & Consultancy published a new report on “Chromatography Global Market – Forecast To 2024”

*Chromatography is a versatile technique used across industries. Factors like Rapid rise in biologics, its importance in drug approvals are driving the market.*

BOSTON, MASSACHUSETTS, U.S., March 30, 2018 /EINPresswire.com/ -- Chromatography is a versatile separation technique which is used across many industries such as bio pharma & pharmaceutical, food & beverage, oil & petroleum, environmental testing and agriculture & chemical industries. Any Chromatography technique has two immiscible phases, one is stationary phase (solid or liquid supported on solid) and another is liquid (Liquid or gas) phase. The process works on the principle of separation of the sample mixture based on the relative affinity of the components of the mixture to these two phases.

As estimated by [IQ4I Research](#) and Consultancy, the [Chromatography global market](#) is expected to grow at mid single digit CAGR to reach \$18,077.7 million by 2024. The major factors driving the Chromatography market includes rapid rise in biologics, growing importance of chromatography tests in drug approvals, new international cGMP & cGDP certification for

pharmaceutical excipients, technological advancements in chromatography instruments and reagents, increased R & D spending , factors such as expanding emerging markets, Increased use of chromatography in diverse applications, growing food safety concerns are increasing opportunity for market expansion. However, high cost & maintenance of advanced equipments, mature product segments & pricing pressure and Stringent regulations may hinder the growth of chromatography market.

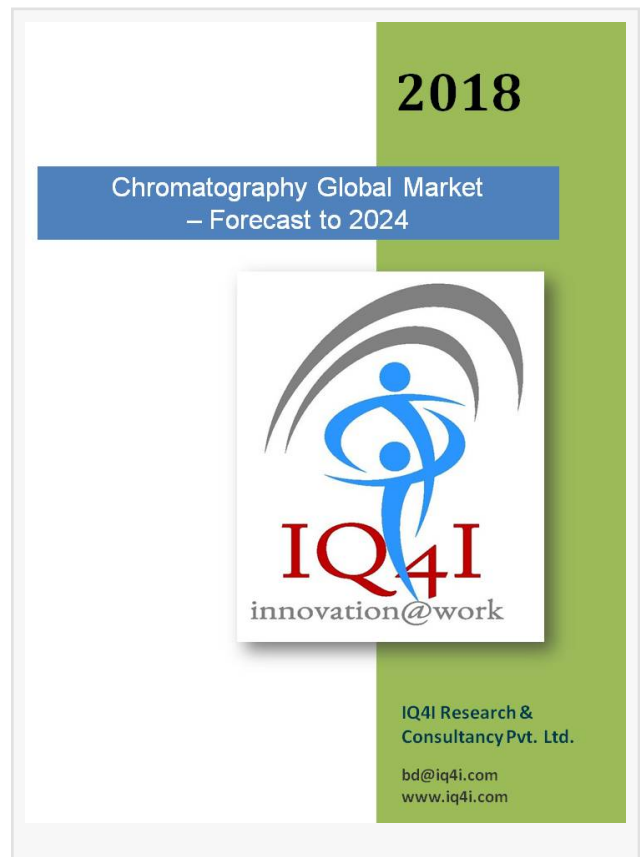


Chromatography Global Market is estimated to be worth \$18,077.7 million by 2024”

*IQ4I Analyst*

The Chromatography global market is segmented based on the Process type, Technology, Products and applications. Among process type, process chromatography held the maximum share and is expected to grow at a strong CAGR because of its increased use in biopharmaceutical downstream processing such as, in monoclonal antibodies

production and increasing need of separation analysis in large industries. Among technology, Liquid Chromatography (LC) held the maximum share and is expected to grow at a strong CAGR. The growth of LC is being attributed to increased use of HPLC and UHPLC techniques by academics and



biopharmaceutical companies. Among liquid chromatography technology, [High Performance Liquid Chromatography \(HPLC\)](#) held the maximum share. However, the LC-MS technology is expected to grow at high single digit CAGR as there is an increasing focus on usage of LC-MS in the pharmaceutical industry to provide quantitative measurements of active drugs and metabolites. Chromatography products are segmented into Instruments, Consumables and Software & services. Among the chromatography products, consumables held the maximum share and are expected to grow at a strong CAGR because of several innovations in resins, columns and reagents. Chromatography Instruments segment is further classified into systems, detectors, pumps and others in which chromatography systems held the maximum share and are expected to grow at a single digit CAGR. Chromatography consumables segment is classified into reagents, solvents, columns, resins and others in which, reagents hold the maximum share. Among applications, pharma & biotech Industries held the maximum share. Increase in research & development activities, need of chromatography technique for protein purification, drug identification are the factors driving the chromatography in pharma & biotech industries.

The chromatography technologies have advanced in the past few decades and as a result increased the rate of adoption of these techniques for a wide range of applications especially in the pharmaceutical and biopharmaceutical industries for high purity end products. 2D Liquid chromatography techniques are being used in pharma industries, the 2D LC (LC x LC) technique can be applied for the separation of very complex samples or for the complex mixtures which are very hard to resolve with 1D LC instruments. Centrifugal partition Chromatography (Counter Current Chromatography) is another advancement in the field of chromatography, which is an alternative to HPLC or Flash chromatography and requires no traditional solid supports. This new technology can isolate the maximum amount of a specific molecule at the highest purity, with less solvent consumption, in a short time and without using a column or any support media. Gilson (U.S.) is one of the manufacturers of Centrifugal Partition Chromatography (CPC) systems. In order to reduce costs in both process and systems, to attain high yield and product purity, from last few years, the biopharmaceutical industry has accepted a broad array of single-use system (SUS) technologies. Chromatography consumables such as buffers, resins and columns can be of single use. In downstream processing, use of pre-packed columns has been increased which can replace the need for multiple self-packed columns and provides the process replicability. For instance, Repligen (U.S.) offers OPUS pre-packed columns which are a rapid change over from column packing issues or cleaning validation. Similarly, the spin columns offered from Sartorius (Germany) based on membrane adsorber technology are the new advancements in chromatography columns market. This technology allows us to shift from slow and oversized expensive columns to small, single-use capsules. These membrane adsorbers are ready to use and saves a lot of time. However, the most of the resins are too expensive to consider using them for only one batch. Hence, these resins are considered to be used for the multiple times and so the chromatography columns.

Geographically, North American region held the largest market share in 2017 wherein United States accounted for the largest share. This growth is driven by the growing government investments and funding for research, increased research and development activities in drugs and biologics. Among European nations, Germany dominates the market, due to impact of Brexit, the market growth rate in U.K. may decrease from 2019 because of uncertainty of regulatory and funding issues. Asia-Pacific region is projected to grow with a strong CAGR due to expansion of chromatography companies in the regions of India, China, and Japan. Furthermore, several major pharmaceutical companies are also increasingly outsourcing their drug and development services particularly in the Asian region which is identified as another major driver that is enhancing the demand of chromatography instruments in this region.

Chromatography, one of the important analytical techniques, is routinely used in industry and academics for separation, quantitation and identification of chemical or biological compounds.

Chromatographic analysis plays a vital role across the industries like pharmaceuticals, chemicals or food and beverages. Over the time, compared to other separation techniques, the chromatography is being successful in facilitating the processes of biomarker discovery, antibody purification, small molecule analysis, particle design and drug formulation and thus taking the major share in the bio-pharmaceutical industry. Similarly, this technique especially HPLC has proven to be an optimal technology for detecting and/or quantifying the vast majority of food analytes and plays a significant role in food industry. However, In future, Chromatography technique will continue to be a separation technology of choice in the analytical instruments market through its ability to achieve further advancements, in particular continuous manufacturing, process analytical technology, single-use systems, also by reducing costs and by providing high quality equipments.

Major players in the Chromatography global market include Agilent Technologies Inc., (U.S.), Bio-Rad Laboratories (U.S.), Bruker Corporation (U.S.), Danaher Corporation (U.S.), GE Healthcare (U.S.), Merck KGaA (Germany), PerkinElmer Inc., (U.S.), Shimadzu Corporation (Japan), ThermoFisher Scientific (U.S.) and Waters Corporation (U.S.). The consumables market is highly fragmented with hundreds of players competing for market share. The report analyses Chromatography market globally with detailed information of various segments. It further discusses market dynamics, industry trends, and challenges of Chromatography market.

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