

Gastroretentive Drug Delivery Systems Outsourcing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Dosage Form (Tablets, Liquid, Microspheres, Capsule, Others) Region and Competition, 2020-2030F

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Abstracts

Global Gastroretentive Drug Delivery Systems Outsourcing Market was valued at USD 1.37 billion in 2024 and is expected to reach USD 1.89 billion by 2030 with a CAGR of 5.51% during the forecast period. The Global Gastroretentive Drug Delivery Systems Outsourcing Market is a dynamic and rapidly evolving sector within the pharmaceutical and healthcare industry. Gastroretentive drug delivery systems refer to specialized formulations and technologies that enable drugs to be retained in the stomach for an extended period, facilitating controlled release and targeted therapeutic effects. This market segment is witnessing significant growth due to the increasing demand for novel drug delivery systems that enhance drug bioavailability, improve patient compliance, and reduce side effects.

the rising prevalence of chronic diseases, such as gastrointestinal disorders, which require effective and patient-friendly drug delivery solutions. Moreover, an aging population and increasing awareness of advanced pharmaceutical technologies are propelling the demand for gastroretentive drug delivery systems. The pharmaceutical industry is increasingly outsourcing the development and manufacturing of these systems to specialized contract research organizations (CROs) and contract manufacturing organizations (CMOs) to leverage their expertise and reduce time-to-market.

The market is characterized by a diverse range of outsourcing services, including formulation development, preclinical and clinical testing, and commercial-scale

production of gastroretentive drug delivery systems. CROs and CMOs are playing a pivotal role in offering end-to-end solutions that encompass research and development, technology selection, regulatory compliance, and quality assurance. As a result, pharmaceutical companies can focus on their core competencies in drug discovery and clinical development, while relying on outsourcing partners for specialized expertise in gastroretentive drug delivery.

Furthermore, regional expansion, strategic collaborations, and investments in research and development activities are contributing to the market's rapid growth. The market is witnessing a surge in innovation, with the development of novel gastroretentive drug delivery technologies, including floating systems, bio adhesive systems, and expandable systems.

Key Market Drivers

Rising Prevalence of Gastrointestinal Disorders

The rising prevalence of gastrointestinal disorders is a pivotal driver behind the growth of the Global Gastroretentive Drug Delivery Systems Outsourcing Market.

Gastrointestinal conditions, such as gastroesophageal reflux disease (GERD), irritable bowel syndrome (IBS), inflammatory bowel disease, and peptic ulcers, are becoming increasingly common worldwide. These disorders can significantly impact an individual's quality of life and managing them effectively often requires specialized pharmaceutical interventions.

According to World Gastroenterology Organisation, overall, 49% of females and 36.6% of males met criteria for at least one FGID - the most common disorders in all regions being functional constipation, functional dyspepsia, proctalgia fugax, functional diarrhea and IBS at prevalence rates of 11.7%, 7.2%, 5.9%, 4.7% and 4.1, respectively.

Gastroretentive drug delivery systems play a crucial role in addressing the challenges associated with treating gastrointestinal disorders. These innovative systems allow drugs to remain in the stomach for an extended period, ensuring localized treatment and controlled release of therapeutic agents. This approach not only enhances the bioavailability of drugs but also minimizes side effects and maximizes the effectiveness of treatment, providing much-needed relief to patients suffering from gastrointestinal ailments.

Key Market Challenges

Intellectual Property Concerns

In the competitive world of pharmaceuticals, companies invest heavily in research and development to create proprietary innovations, including gastroretentive drug delivery technologies. These innovations often form the core of their product portfolio and protecting them through IP rights is essential for maintaining a competitive edge. The fear of losing exclusive rights to these innovations can lead to hesitancy in sharing proprietary information with outsourcing partners, potentially hampering collaboration.

Collaborations between pharmaceutical companies and contract research organizations (CROs) or contract manufacturing organizations (CMOs) require a degree of information exchange. For the successful development and manufacturing of gastroretentive drug delivery systems, there's a need to share critical data, formulation knowledge, and technical expertise. However, striking the right balance between knowledge sharing and IP protection can be challenging. Pharmaceutical companies must carefully manage their IP while ensuring that their outsourcing partners have the necessary information to deliver high-quality products.

Key Market Trends

Increasing Demand for Targeted Drug Delivery

The Global Gastroretentive Drug Delivery Systems Outsourcing Market is experiencing a significant boost due to the increasing demand for targeted drug delivery solutions. This surge in demand is fueled by several factors and represents a key driving force shaping the future of the pharmaceutical outsourcing industry.

One of the most prominent factors driving the increasing demand for targeted drug delivery is the growing recognition of the limitations of traditional drug delivery methods. Conventional oral drug delivery often lacks specificity, with drugs being absorbed throughout the gastrointestinal tract. This can lead to reduced drug bioavailability and increased side effects, making it less than ideal for many therapeutic applications.

gastroretentive drug delivery systems offer a highly effective means of targeting specific regions within the gastrointestinal tract, particularly the stomach. These systems allow drugs to remain in the stomach for an extended duration, ensuring that they are delivered precisely where they are needed. This localized, site-specific approach not only enhances drug bioavailability but also minimizes unwanted side effects, improving

the overall therapeutic outcomes for patients.

Key Market Players

Catalent, Inc

Lonza Group

Evonik Industries AG

Colorcon

Quotient Sciences

AptarGroup, Inc.

Aenova Holding GmbH

Evotec SE

Vectura Group Ltd

Ashland Inc.

Report Scope:

In this report, the Global Gastroretentive Drug Delivery Systems Outsourcing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Gastroretentive Drug Delivery Systems Outsourcing Market, By Dosage Form:

Tablets

Liquid

Microspheres

Capsule

Others

Gastroretentive Drug Delivery Systems Outsourcing Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Gastroretentive Drug Delivery Systems Outsourcing Market.

Available Customizations:

Global Gastroretentive Drug Delivery Systems Outsourcing Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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