

# **Galacto-oligosaccharides Market Assessment, By Form [Liquid, Powder], By Application [Prebiotic, Sweetener, Animal feed, Others], By End-use [Food and Beverages, Pharmaceutical, Cosmetic and Personal care, Animal Husbandry, Others], By Region, Opportunities and Forecast, 2016-2030F**

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## **Abstracts**

Global galacto-oligosaccharides market size was recorded at 50.94 kilotons in 2022, which is expected to grow to 78.18 kilotons in 2030 with a CAGR of 5.5%, during the forecast period between 2023 and 2030. The galacto-oligosaccharides market is influenced by several key drivers that have contributed to its growth and prominence. One of the primary drivers is the increasing awareness of the importance of gut health. Consumers are now more conscious of how a healthy gut microbiome can impact overall well-being, which has led to a higher demand for prebiotic ingredients, like GOS.

The rising popularity of functional foods and beverages is another significant driver as consumers seek products that offer health benefits beyond basic nutrition, and GOS is often used in these functional items. Additionally, the use of GOS in infant formula due to its similarity to human milk oligosaccharides (HMOs) has propelled demand in the infant nutrition segment.

Moreover, the development of functional beverages, including probiotic and prebiotic drinks, has expanded the use of GOS. These beverages have gained popularity for their potential to enhance digestive health. Conclusively, Research and clinical studies have played a significant role in advancing the GOS market as ongoing research into the health benefits of GOS and positive results from clinical studies have contributed to the growing reputation and demand for this ingredient.

## Demand for Pet Feed to Increase the use of Galacto-oligosaccharides

The utilization of Galacto-oligosaccharides (GOS) in pet feed is gaining prominence, driven by the growing recognition of the significance of pet health and nutrition. GOS offers a range of benefits for pets, with a primary focus on enhancing their digestive health, and supports the pet's gut microbiome, aids in digestion, and diminishing the occurrence of gastrointestinal issues. Moreover, GOS has demonstrated its potential in fortifying the immune system of pets, bolstering their resistance to diseases and serve to mitigate allergic reactions in pets, thus establishing itself as a valuable ingredient for the management of common pet allergies.

For instance, Nestlé Purina PetCare Co. allocated an investment of USD 182 million to expand its manufacturing facility for pet care products in King William County, Virginia, the United States. Expansion of manufacturing and strong demand for pet feed to strengthen the Galacto-oligosaccharides globally.

## Increasing Consumption of Prebiotics Drinks to Heighten Galacto-oligosaccharides Demand

Galacto-oligosaccharides play a pivotal role in the dietary supplements industry, where it is widely promoted for its potential health benefits, particularly in supporting gut health. The increasing focus on digestive well-being has driven significant demand for GOS within the dietary supplements sector. Moreover, the surge in the dietary supplements industry has been accompanied by the development of functional beverages. It includes a range of products like probiotic and prebiotic drinks and foods that aim to enhance overall health through improved gut microbiome balance.

For instance, during July 2023, FHIRST Living Soda entered the beverage market, marking the pioneering all-natural, sugar-free drink that uniquely blends probiotics and prebiotics to support gut health. The rise in launches of functional foods across the globe increases the demand for galacto-oligosaccharides.

## Rising Integration of Galacto-oligosaccharides in Pharmaceutical Application to Improve Demand

GOS has been the subject of research focused on its potential to mitigate symptoms associated with gastrointestinal disorders, including conditions like irritable bowel syndrome (IBS) and inflammatory bowel disease (IBD). GOS fosters the proliferation of

beneficial gut bacteria and has shown promise and helps in enhancing gut health and diminishing associated symptoms. In addition to addressing gastrointestinal disorders, it is used for managing diarrhea. Therefore, it is a featured ingredient in specific pharmaceutical products, such as oral rehydration solutions, designed to alleviate diarrhea, with a particular focus on its efficacy in infants and young children.

For instance, during Q1 of 2023, Johnson & Johnson reported impressive results in their sales experiencing a robust upswing of nearly 10 percent in the United States, reaching a total of USD 12.52 billion. The upsurge in sales of pharmaceuticals is expected to contribute to rising demand for GOS.

### Impact of COVID-19

The galacto-oligosaccharides market experienced significant disruption due to the outbreak of COVID-19. Although the pandemic had a relatively milder impact on the food and beverage industry compared to other sectors, it severely affected the industry's global supply chain, constraining its growth potential. The shift in consumer behavior during this time had a detrimental effect on purchasing patterns, resulting in several challenges, including operational halts, hindrances to business expansion, and suspended activities. However, on the other hand, the lockdown heightened demand for GOS in few applications as the need for pet feed and prebiotic drinks increased during the pandemic.

### Key Outlook

A huge percentage of the population of people across the globe is lactose intolerant, which is a major restrain to the market. However, the development of plant-based GOS will witness a consumption increase within this population.

The ongoing research of GOS in pharmaceuticals along with growing awareness of gut health will improve the demand for galacto-oligosaccharides market globally.

### Key Players Landscape and Outlook

Key players in the galacto-oligosaccharide market are actively involved in the creation of innovative products, primarily intended to function as dietary supplements. This strategic initiative is coordinated with the increasing worldwide need for nutritional

supplements and the industry's adaptability to changing consumer preferences in this regard. It underscores a dedication in addressing the rising market requirements for health-oriented products, emphasizing a pivotal role of galacto-oligosaccharide in modern dietary solutions.

For instance, in August 2022, FrieslandCampina Ingredients created a specialized prebiotic with the aim of spurring innovation in the expanding market for gut health supplements. Featuring an exceptionally high galacto-oligosaccharide content of more than 90%, Biotis GOS-OP High Purity stands as the company's most refined prebiotic ingredient.

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\*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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