

# Isomalto-oligosaccharide Market - Forecast from 2026 to 2031

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## Abstracts

The isomalto-oligosaccharide market is anticipated to expand at a steady rate during the forecast period.

Isomalto-oligosaccharide (IMO) stands out as a high-maltose syrup composed of a blend of short-chain carbohydrates, gaining significant acclaim as a sought-after ingredient particularly in creating health-focused processed foods such as protein bars. Its market positioning emphasizes sweet taste coupled with claims of being a zero-calorie prebiotic fiber with minimal impact on blood sugar levels. Beyond nutrition, functional oligosaccharides find applications in pharmaceuticals, cosmetics, agrichemical formulations, and encapsulation technology, showcasing their versatility and widespread utility across diverse industries.

### Functional Benefits and Applications

IMO plays a pivotal role in promoting gut health by fostering growth of beneficial bacteria. Its unique attribute of not causing blood sugar spikes makes it a suitable choice for individuals managing diabetes and those focused on weight management. Offering sweetness and texture, IMO stands out as a lower-calorie alternative to sugar. The prebiotic property extends beyond human applications to include animal feeds, contributing to health and growth of farm animals.

Brands are increasingly using IMO for low-calorie sweetness in bars and other products, supporting diabetic diets by minimizing blood sugar impact. Manufacturers are expanding functional foods by adding prebiotic fiber, while feed makers are enhancing animal nutrition to improve livestock health. The functional benefits of galactooligosaccharides contribute to health improvements including reduction of blood

cholesterol and triglycerides, and assistance in absorption of minerals from foods.

### Versatility Across Industries

Isomalto-oligosaccharides showcase remarkable versatility in usage across various foods and beverages, spanning chocolates, baked goods, ice cream, and yogurt. Malto-oligosaccharides, characterized by digestible nutrient sweetener properties with low sweetness, calorie content, and osmotic pressure, find diverse applications in food processing, beverages, dairy products, juices, jams, cakes, wines, and functional foods. As prebiotics, they have demonstrated ability to promote growth of beneficial bacteria in the colon, contributing to digestive health and immunity.

In the pharmaceutical sector, isomalt-oligosaccharides are regulated as excipients for drug formulations, contributing to development and formulation of pharmaceutical products. The versatility of functional oligosaccharides extends to cosmetics and agrochemicals, demonstrating their adaptability across multiple industrial applications.

### Market Challenges

The pricing of IMO is intricately tied to several factors, primarily availability of raw materials and associated production costs. Raw materials used in IMO production, such as tapioca, organic tapioca, and corn starch, can experience fluctuations in availability due to agricultural conditions, seasonal variations, and market demand. Additionally, costs associated with the production process, including enzyme processing, liquefaction, concentration, and drying, play significant roles in determining overall pricing. Energy costs, labor expenses, and other operational overheads contribute to production costs, which influence final market pricing. However, overall market development and supply chain stability could help stabilize the market over time.

### Market Segmentation

The IMO market is segmented into food, pharmaceutical, and others by applications. In the food industry, isomalt-oligosaccharides find extensive use, contributing to sweetness and texture in low-calorie food formulations. Recognized as regulated food additives, they serve as valuable ingredients. Moving beyond the culinary domain, these oligosaccharides play significant roles in pharmaceutical sectors as regulated excipients for drug formulations. Moreover, they exhibit versatility in cosmetics and agricultural chemicals sectors.

## Regional Market Analysis

North America is projected to account for notable market share, underscored by the region's substantial prevalence of overweight and obesity. With significant portions of the adult population categorized as overweight or obese, the market for health-conscious ingredients is positioned for growth. IMO's perceived role as a prebiotic fiber source, believed to have minimal impact on net carbohydrate value of food products, positions it as an appealing choice for those seeking 'low-carb' options. This characteristic aligns with prevalent consumer demand for healthier alternatives, making North America a key market for IMO. Obesity concerns are driving demand in the region, supporting market expansion.

## Product Offerings

Market products are available in various forms including powder and syrup. Specialized manufacturing processes involve converting molecules from sources like corn, wheat, barley, potatoes, or tapioca into functional IMO molecules. Products derived from refined tapioca, organic tapioca, and corn starch undergo enzyme treatment, liquefaction, concentration, and drying, resulting in exceptional quality positioning as excellent prebiotics. These products find wide utilization across industries including animal husbandry, medical treatment, and daily health care, employed in formulation of high-purity health products. Functioning as functional healthcare products and healthy, low-calorie sweeteners, they uniquely emphasize prebiotic advantages, making them particularly suitable for individuals with intestinal concerns and showcasing versatility in catering to diverse health needs.

## Key Benefits of this Report:

**Insightful Analysis:** Gain detailed market insights covering major as well as emerging geographical regions, focusing on customer segments, government policies and socio-economic factors, consumer preferences, industry verticals, and other sub-segments.

**Competitive Landscape:** Understand the strategic maneuvers employed by key players globally to understand possible market penetration with the correct strategy.

**Market Drivers & Future Trends:** Explore the dynamic factors and pivotal market

trends and how they will shape future market developments.

**Actionable Recommendations:** Utilize the insights to exercise strategic decisions to uncover new business streams and revenues in a dynamic environment.

**Caters to a Wide Audience:** Beneficial and cost-effective for startups, research institutions, consultants, SMEs, and large enterprises.

What do businesses use our reports for?

Industry and Market Insights, Opportunity Assessment, Product Demand Forecasting, Market Entry Strategy, Geographical Expansion, Capital Investment Decisions, Regulatory Framework & Implications, New Product Development, Competitive Intelligence

Report Coverage:

Historical data from 2021 to 2025 & forecast data from 2026 to 2031

Growth Opportunities, Challenges, Supply Chain Outlook, Regulatory Framework, and Trend Analysis

Competitive Positioning, Strategies, and Market Share Analysis

Revenue Growth and Forecast Assessment of segments and regions including countries

Company Profiling (Strategies, Products, Financial Information, and Key Developments among others.

Isomalt-O-Oligosaccharide Market Segmentation

By Form

Powder

Syrup / Liquid

## By Applications

Food

Pharmaceutical

Others

## By Chemical Type

Fructo Oligosaccharide

Malt Oligosaccharide

Others

## By Geography

North America

United States

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

UAE

Israel

Others

Asia Pacific

China

India

Japan

South Korea

Indonesia

Thailand

Others

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10.6. Van Wankum Ingredients

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10.9. Guangzhou Hisoya Biological Science & Technology Co., Ltd.

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