Sugar Substitutes - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-08-01 | 159 pages | Mordor Intelligence

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Report description:

Sugar Substitutes Market Analysis

The global sugar substitutes market size reached USD 8.77 billion in 2025 and is expected to grow to USD 10.96 billion by 2030, registering a compound annual growth rate (CAGR) of 4.56%. The rising prevalence of diabetes has increased awareness among consumers and policymakers about the need to reduce added sugar consumption. This has significantly boosted the demand for low-calorie sweetening alternatives. Supportive regulatory measures are further driving market growth. The Asia-Pacific region is leading the market in terms of size and growth, driven by key developments such as India's approval of allulose for the first time and the rapid expansion of China's health-food industry. Among the various types of sugar substitutes, high-intensity sweeteners hold the largest market share. However, stevia is growing at the fastest rate, thanks to advancements in bioconversion technologies that help overcome agricultural limitations. While plant-based sugar substitutes dominate the market, there is a growing trend toward biotechnologically fermented alternatives. These options are gaining popularity as manufacturers aim to establish more reliable and environmentally friendly supply chains with lower carbon footprints. The market remains highly fragmented, offering significant opportunities for differentiation and innovation.

Global Sugar Substitutes Market Trends and Insights

Soaring diabetes and obesity rates fuel the demand for low-calorie sweeteners

Health concerns around the world, especially the rising cases of diabetes and obesity, are pushing more people to look for sugar

substitutes. According to the Diabetes Atlas, about 589 million adults aged 20-79 years are living with diabetes globally, which means roughly 1 in 9 people are affected. This number is expected to grow to 853 million by 2050, or 1 in 8 adults. This initiative is designed to help countries reformulate food products to address these health challenges. By 2035, over 750 million children aged 5-19 years are expected to be overweight or obese, according to World Obesity. At the same time, the growing popularity of GLP-1 weight-loss drugs is changing how consumers think about food. Companies are stepping up to meet this demand. For example, Coca-Cola introduced stevia-sweetened drinks in December 2023, and PepsiCo continues to invest in zero-calorie options like Pepsi Zero Sugar. These efforts show how the industry is adapting to changing consumer preferences and health priorities.

Surge in demand for clean-label sweeteners

Consumers are increasingly demanding clean-label ingredients, which is reshaping the sugar substitutes market. Global consumers expect brands to focus on environmental sustainability while offering products with simple, recognizable ingredients. To meet these expectations, regulatory bodies are stepping up their efforts. For example, in 2024, the U.S. FDA granted GRAS (Generally Recognized As Safe) approvals for innovative sweeteners like brazzein and D-psicose. These sweeteners are either plant-derived or produced using precision fermentation, a process that creates nature-identical sweetness without relying on synthetic methods. This approach aligns well with the clean-label trend, as seen with Bestzyme's brazzein, which the FDA approved for use in confectionery products. Europe is also becoming a key growth area, with updated regulations encouraging the use of natural alternatives. This shift has helped Stevia gain significant traction as brands move away from artificial sweeteners like aspartame.

Regulatory ambiguity around novel sweeteners

Regulatory frameworks struggle to keep pace with biotechnological innovations in sweetener production, creating market uncertainty that constrains investment and commercialization timelines. The European Union's ongoing review of monk fruit extract status exemplifies this challenge, where insufficient clinical evidence on long-term effects delays market access despite approvals in the U.S., China, and Canada. The FDA's GRAS rule reform, while enhancing transparency, introduces additional compliance requirements that may slow ingredient introductions, particularly for smaller innovators lacking regulatory expertise. Japan's complex functional food regulatory framework, balancing risk-side quality and safety with benefit-side functionality, illustrates how regulatory sophistication can both enable and constrain market development. These regulatory uncertainties particularly impact precision fermentation products, where novel production methods require extensive safety documentation despite producing identical molecular structures to traditional extraction methods.

Other drivers and restraints analyzed in the detailed report include:

Advances in extraction and processing technologies reduce production costs / Expansion of low/no-sugar products fueling market growth / Consumer safety perception issues around artificial sweeteners /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

High-intensity sweeteners led the sugar substitutes market in 2024, capturing 58.95% of the market share. These sweeteners are highly favored by food and beverage manufacturers due to their intense sweetness and cost-effectiveness. Sugar polyols are expected to grow significantly, with a projected CAGR of 5.96%, as they increasingly replace high-intensity sweeteners in certain applications. These polyols, such as xylitol and erythritol, are gaining popularity due to their ability to provide bulk and retain moisture, making them highly effective in products like tablet coatings and controlled-release capsules. These functional benefits

are driving their adoption in the pharmaceutical sector, where they help ensure the required compression strength and moisture control. Advancements in production technologies, such as circular-economy fermentation using lignocellulosic biomass, are reducing manufacturing costs. This cost reduction is encouraging more companies to incorporate polyols into their formulations.

Erythritol is particularly popular due to its zero glycemic impact and mild cooling effect, making it an ideal choice for products like chocolate and gum. Recent advancements in fermentation techniques have significantly improved erythritol production, increasing yields and reducing the cost gap with traditional cane sugar. Xylitol, derived from lignocellulosic feedstocks, is gaining traction as a sustainable option within the circular economy framework. Although sugar polyols generally have a lower sweetness intensity compared to high-intensity sweeteners, their unique properties and ongoing innovations are driving their adoption in various applications.

In 2024, plant-based ingredients contributed 52.05% of the sugar substitutes market revenue. However, their dominance is expected to slightly decline as fermentation-based sweeteners (Biotechnologically Fermented) gain popularity, growing at an impressive CAGR of 6.27%. This growth is fueled by their ability to provide consistent yields and a reduced environmental footprint compared to traditional agricultural methods. For example, Cargill's EverSweet stevia, produced through yeast fermentation, offers Reb M without relying on farmland or being affected by seasonal changes. Similarly, fermentation-based monk fruit production eliminates the dependency on specific climatic conditions in southern China, ensuring a reliable supply of mogroside V with consistent quality, regardless of crop variability.

Synthetic sweeteners continue to hold a small but significant share, particularly in price-sensitive markets where regulatory frameworks allow their use and cost-effectiveness remains a priority. However, consumer preferences are evolving, with a growing emphasis on sustainability and transparency. Many brands and retailers now highlight the origin and carbon footprint of ingredients on product labels, encouraging manufacturers to shift toward more sustainable options. This trend is expected to further boost the adoption of fermentation-based and plant-derived sweeteners, as they align better with consumer demand for environmentally friendly and ethically sourced products.

The Sugar Substitutes Market Report is Segmented by Type (High Intensity Sweeteners and Sugar Polyols), Origin (Plant Derived, Synthetic, and More), Form (Powder and Liquid), Application (Food, Beverage, and More), and Geography (North America, Europe, Asia-Pacific, South America, and Middle East and Africa). The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

Asia-Pacific accounted for 43.12% of global revenue in 2024 and is growing at a robust CAGR of 5.73%. This growth is driven by factors such as regulatory clarity, urbanization, and the increasing purchasing power of the middle class. In China, health-food approvals reached 875 in 2023, creating opportunities for innovative sweeteners that comply with the updated GB 2760-2024 standards. India has also made significant progress, with the FSSAI approving allulose, signaling a shift toward natural, low-calorie sweeteners. This move has attracted foreign suppliers eager to establish local production. Meanwhile, Japan's functional food market offers a premium segment where traceability and clinical data are highly valued, allowing manufacturers to command higher price points.

North America continues to lead in technology and production capacity. The FDA's transparent GRAS (Generally Recognized as Safe) process has supported the development of innovative sugar substitutes. For instance, Nebraska's Avansya facility produces fermented stevia at a commercial scale, ensuring a reliable domestic supply. The U.S. government's push for zero-added-sugar policies has prompted multinational food companies to increase Research and Development investments in sugar substitute solutions that can be applied across North American, Latin American, and European product lines. Similarly, Canada's alignment with these nutritional guidelines ensures consistency in labeling claims across the continent, further driving market growth.

In Europe, the demand for natural sweeteners like stevia and monk fruit is rising, driven by clean-label trends and strict safety regulations. The region is experiencing growth in natural sweeteners as consumers increasingly prefer products with fewer artificial ingredients. Additionally, Europe's focus on carbon-reduction mandates has created a premium market for fermentation-based sweeteners, positioning the region as a leader in sustainable and green-label solutions. These high standards often influence export markets, further amplifying Europe's impact on the global sugar substitutes market.

List of Companies Covered in this Report:

Cargill, Incorporated / Tate & Lyle PLC / Archer Daniels Midland Company / Ingredion Incorporated / DSM-Firmenich AG / International Flavors & Fragrances, Inc. / Tereos SCA / GLG Life Tech corp. / Evolva Holding SA / Givaudan SA / HSWT France SAS / Roquette Freres / Kerry Group plc / Sudzucker AG / Zhejiang Huakang Pharmaceutical co., Ltd. / Corbion N.V. / Merisant Company / Sensient Technologies Corporation / Axiom Foods, Inc. / Morita Kagaku Kogyo co., Ltd. /

Additional Benefits:

 The market estimate (ME) sheet in Excel format /
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