

Global Recombinant Brazzein Market Growth 2026-2032

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Abstracts

The global Recombinant Brazzein market size is predicted to grow from US\$ 177 million in 2025 to US\$ 308 million in 2032; it is expected to grow at a CAGR of 8.2% from 2026 to 2032.

Brazzein, a naturally derived sweet protein, was first isolated from the fruit of the tropical West African plant *Pentadiplandra brazzeana*. Its sweetness is 500 to 2,000 times that of sucrose, making it one of the most potent natural sweet proteins known. Through modern recombinant DNA technology, it can be expressed and produced in microorganisms or engineered bacteria (such as yeast and bacteria), giving this high-sweetness protein the potential for large-scale commercialization. Compared to traditional artificial sweeteners, Brazzein, a protein-based sweetener, is low in calories, thermally stable, pH stable, non-bitter, and readily water-soluble. It maintains its sweetness during food processing, providing a natural sweetening solution for low-sugar or sugar-free foods. With a molecular weight of approximately 6.5 kDa, its extremely high sweetness intensity, and taste close to sucrose, makes it a promising alternative sweetener in the food industry, particularly in beverages, confectionery, pastries, and nutritional foods. In 2024, global production of Recombinant Brazzein reached 403.11 tons, with an average selling price of \$450/kg. Production volume is significantly lower than traditional sweeteners and is primarily driven by a few synthetic biotechnology companies, with a gross profit margin of approximately 35%–55%.

Currently, the strains used for research and production of brassin mainly include: *E. coli*, yeast, *Pichia pastoris*, *Aspergillus oryzae* host expression, and recombinant *Trichoderma reesei* strains. The challenges to its industrialization lie in the problems of current microbial expression systems (such as *E. coli* and fungi), such as low protein expression levels, protein misfolding leading to reduced activity, and complex

and costly purification processes. All of these factors limit the widespread application of sweet proteins. Key advancements in the development of brazzein in the industry include:

In May 2023, California-based food ingredient startup Sweeten successfully produced the super-sweet protein Brazzein using precision fermentation technology, becoming the first company to receive FEMA GRAS (Generally Recognized As Safe, GRAS) certification.

In 2024, Oobli, a US-based company, successfully obtained FDA GRAS certification for its brazzein produced using precision fermentation technology, allowing it to be used in food and beverages. In February 2025, Oobli announced a collaboration with sweetener giant Ingredion to advance the sweetener applications of brazzein.

In May 2024, synthetic biology leader Ginkgo Bioworks partnered with GreenLab to work on improving the expression of brazzein in corn kernels and utilizing precision fermentation technology to achieve commercial-scale production of brazzein.

In March 2025, Waterdrop Agriculture also received FDA SELF-GRAS certification, becoming one of the few companies globally to achieve commercialization. And we are selling to countries and regions that accept this certification. Currently, we are promoting our products in the United States, Latin America, and Southeast Asia.

LP Information, Inc. (LPI) ' newest research report, the “Recombinant Brazzein Industry Forecast” looks at past sales and reviews total world Recombinant Brazzein sales in 2025, providing a comprehensive analysis by region and market sector of projected Recombinant Brazzein sales for 2026 through 2032. With Recombinant Brazzein sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Recombinant Brazzein industry.

This Insight Report provides a comprehensive analysis of the global Recombinant Brazzein landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Recombinant Brazzein portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Recombinant Brazzein market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Recombinant Brazzein and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Recombinant Brazzein.

This report presents a comprehensive overview, market shares, and growth opportunities of Recombinant Brazzein market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Purity 90%-95%

Purity greater than 95%

Segmentation by Channel:

Commercial Use

Home Use

Segmentation by Sales:

Direct Selling

Distribution

Segmentation by Application:

Dairy Products

Baking

Dietary Supplements

Beverages

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Oobli

Ingredion

Sweegen

Amai Protein

Novel Foods Group

Perfect Day

Amai Proteins

MycoTechnology

Nomad Bioscience GmbH

Naturannova

Ajinomoto Health & Nutrition

BRAIN AG?AnalytiCon Discovery?

Aquafarmtory

Bestzyme

Gdzhumei

Key Questions Addressed in this Report

What is the 10-year outlook for the global Recombinant Brazzein market?

What factors are driving Recombinant Brazzein market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Recombinant Brazzein market opportunities vary by end market size?

How does Recombinant Brazzein break out by Type, by Application?

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