

Global Recombinant Brazzein Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4EAC77D3D65EN.html>

Date: December 2025

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: G4EAC77D3D65EN

Abstracts

According to our (Global Info Research) latest study, the global Recombinant Brazzein market size was valued at US\$ 187 million in 2025 and is forecast to a readjusted size of US\$ 315 million by 2032 with a CAGR of 7.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Recombinant Brazzein market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Recombinant Brazzein market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Recombinant Brazzein market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices

(US\$/kg), 2021-2032

Global Recombinant Brazzein market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Recombinant Brazzein market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Recombinant Brazzein

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Recombinant Brazzein market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Oobli, Ingredion, Sweegen, Amai Protein, Novel Foods Group, Perfect Day, Amai Proteins, MycoTechnology, Nomad Bioscience GmbH, Naturannova, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Recombinant Brazzein market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Purity 90%-95%

Purity greater than 95%

Market segment by Channel

Commercial Use

Home Use

Market segment by Sales

Direct Selling

Distribution

Market segment by Application

Dairy Products

Baking

Dietary Supplements

Beverages

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Recombinant Brazzein product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Recombinant Brazzein, with price, sales quantity, revenue, and global market share of Recombinant Brazzein from 2021 to 2026.

Chapter 3, the Recombinant Brazzein competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Recombinant Brazzein breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Recombinant Brazzein market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Recombinant Brazzein.

Chapter 14 and 15, to describe Recombinant Brazzein sales channel, distributors, customers, research findings and conclusion.

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