

# Global Recombinant Brazzein Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Recombinant Brazzein market size is expected to reach \$ 315 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032). 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.

This report studies the global Recombinant Brazzein production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Recombinant Brazzein and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Recombinant Brazzein that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Recombinant Brazzein total production and demand, 2021-2032, (Tons)

Global Recombinant Brazzein total production value, 2021-2032, (USD Million)

Global Recombinant Brazzein production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Recombinant Brazzein consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Recombinant Brazzein domestic production, consumption, key domestic manufacturers and share

Global Recombinant Brazzein production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Recombinant Brazzein production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Recombinant Brazzein production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Recombinant Brazzein market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Recombinant Brazzein market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Recombinant Brazzein Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Recombinant Brazzein Market, Segmentation by Type:

Purity 90%-95%

Purity greater than 95%

### Global Recombinant Brazzein Market, Segmentation by Channel:

Commercial Use

Home Use

### Global Recombinant Brazzein Market, Segmentation by Sales:

Direct Selling

Distribution

### Global Recombinant Brazzein Market, Segmentation by Application:

Dairy Products

Baking

Dietary Supplements

Beverages

Others

### **Companies Profiled:**

Oobli

Ingredion

Sweegen

Amai Protein

Novel Foods Group

Perfect Day

Amai Proteins

MycoTechnology

Nomad Bioscience GmbH

Naturanova

Ajinomoto Health & Nutrition

BRAIN AG?AnalytiCon Discovery?

Aquafarmtory

Bestzyme

Gdzhumei

### **Key Questions Answered:**

1. How big is the global Recombinant Brazzein market?
2. What is the demand of the global Recombinant Brazzein market?
3. What is the year over year growth of the global Recombinant Brazzein market?
4. What is the production and production value of the global Recombinant Brazzein market?
5. Who are the key producers in the global Recombinant Brazzein market?
6. What are the growth factors driving the market demand?

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