

Global Engineered Yeast Strains Market Growth 2026-2032

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Abstracts

The global Engineered Yeast Strains market size is predicted to grow from US\$ 959 million in 2025 to US\$ 2732 million in 2032; it is expected to grow at a CAGR of 15.8% from 2026 to 2032.

Engineered yeast strains are *Saccharomyces*, *Komagataella/Pichia*, *Kluyveromyces*, *Yarrowia*, and other yeast research or production strains obtained through gene editing, metabolic pathway engineering, screening and adaptation, or directed evolution. They are used for recombinant proteins, enzymes, food flavors, fuel ethanol, precision fermentation ingredients, and pharmaceutical intermediate biosynthesis. Based on a mix of custom development and strain licensing, the estimated overall gross margin is approximately 58%.

Engineered yeast strains are not end-consumer products; they represent upstream production capabilities in the precision fermentation, biomanufacturing, and synthetic biology supply chain. Their market scale typically does not manifest as bulk product revenue like milk proteins, enzymes, organic acids, or functional ingredients, but rather as strain customization fees, platform licensing, project milestones, process transfer packages, and partial long-term revenue shares. Therefore, this category is a relatively small but high-barrier capability market, with high gross margins, and its core value lies in host libraries, metabolic pathway design, expression regulation, stable propagation, and scale-up validation. Demand growth comes from three main directions: first, precision fermentation food ingredients such as milk proteins, sweet proteins, enzymes, and functional peptides, which require yeast hosts with high expression, low by-products, and scalable food-grade production; second, bio-based chemicals and natural product production, which seek to replace plant extraction or petrochemical routes using engineered yeast to improve yield and supply stability; third, pharmaceutical R&D,

protein expression, and screening/validation scenarios, which continue to require custom modifications of chassis strains such as *Pichia pastoris*, *Saccharomyces cerevisiae*, and *Yarrowia lipolytica*. The market's key factor is the ability to translate strain performance into stable, scalable, and transferable industrial fermentation processes. In the short term, engineered yeast strains are primarily project-based, platform service-oriented, and co-development-driven, with revenue elasticity dependent on downstream product commercialization. In the medium to long term, as precision fermentation proteins, bio-based lipids, flavors, and functional ingredients enter scaled production, companies with mature host platforms and fermentation scale-up experience are more likely to secure continuous orders and technology licensing income.

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

This Insight Report provides a comprehensive analysis of the global Engineered Yeast Strains 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 Engineered Yeast Strains portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Engineered Yeast Strains market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Engineered Yeast Strains 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 Engineered Yeast Strains.

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

Segmentation by Type:

Saccharomyces cerevisiae Engineered Strains

Komagataella phaffii (Pichia pastoris) Engineered Strains

Kluyveromyces lactis Engineered Strains

Yarrowia lipolytica Engineered Strains

Hansenula polymorpha Engineered Strains

Other Non-Conventional Yeast Strains

Segmentation by Delivery Model:

Frozen Glycerol Stock Engineered Yeast Strain

Lyophilized Engineered Yeast Strain

Agar Plate Engineered Yeast Culture

Master Cell Bank Engineered Yeast Strain

Working Cell Bank Engineered Yeast Strain

Segmentation by Engineering Method:

CRISPR-Cas Editing

Homologous Recombination Integration

Random Mutagenesis and Screening

Adaptive Laboratory Evolution

Genome-Scale Library Engineering

Non-GMO Breeding or Self-Cloning

Segmentation by Application:

Recombinant Expression Host Development

Precision Fermentation Ingredient Production

Bio-based Chemical Production

Food and Beverage Fermentation Improvement

Strain Engineering and Screening R&D

Other

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.

Novonesis

Berkeley Yeast

Thermo Fisher Scientific

ATUM

Creative Biogene

GenScript

BRAIN Biotech

Ginkgo Bioworks

Evonik

Lesaffre

Key Questions Addressed in this Report

What is the 10-year outlook for the global Engineered Yeast Strains market?

What factors are driving Engineered Yeast Strains market growth, globally and by region?

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

How do Engineered Yeast Strains market opportunities vary by end market size?

How does Engineered Yeast Strains break out by Type, by Application?

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