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Global Engineered Filamentous Fungal Strains Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Engineered Filamentous Fungal Strains market size was valued at US$ 99 million in 2025 and is forecast to a readjusted size of US$ 178 million by 2032 with a CAGR of 8.7% during review period.

Engineered filamentous fungal strains are industrial fermentation hosts constructed through mutagenesis screening, CRISPR-Cas gene editing, metabolic pathway engineering, protein secretion pathway modification, or glycosylation engineering. Common hosts include Aspergillus, Trichoderma, Thermothelomyces/Myceliophthora, and Penicillium. The core value of this category lies in intellectual property, screening platforms, and process transfer, with an estimated overall gross margin of about 58%.

The filamentous fungi market is significantly smaller than the industrial enzyme, precision fermentation protein, or microbial fermentation technology markets, remaining a narrow yet steadily growing upstream capability market. Revenue is primarily derived from custom strain development fees, project milestones, platform licensing fees, and process transfer packages.

Growth is driven by three main factors: first, increasing precision fermentation demand in the food and nutrition sectors for animal protein alternatives, milk proteins, enzyme preparations, and functional peptides; second, industrial enzyme, organic acid, and natural product producers seeking to enhance secretion, reduce media costs, and expand usable substrates through host modification; third, agricultural bioproducts and mycelium-based materials requiring stable, scalable fungal production hosts. Compared to bacteria and yeast, filamentous fungi offer advantages in extracellular protein secretion, complex enzyme expression, and low-cost substrate utilization, but hyphal

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morphology control, genetic modification efficiency, toxin risks, strain intellectual property, and scale-up consistency still limit project translation speed.

In the short term, the market is driven by platform companies and specialized CDMOs such as Dyadic, Ginkgo, 21st.BIO, Novonesis, and BRAIN Biotech. The business model is gradually shifting from one-off development services to licensable chassis strains, integrated strain-to-process delivery, and long-term collaborative projects in food, pharmaceutical, and industrial biomanufacturing.

This report is a detailed and comprehensive analysis for global Engineered Filamentous Fungal Strains 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 Engineered Filamentous Fungal Strains market size and forecasts, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/kg), 2021-2032

Global Engineered Filamentous Fungal Strains market size and forecasts by region and country, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/kg), 2021-2032

Global Engineered Filamentous Fungal Strains market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/kg), 2021-2032

Global Engineered Filamentous Fungal Strains market shares of main players, shipments in revenue ($ Million), sales quantity (kg), 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 Engineered Filamentous Fungal Strains

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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 Engineered Filamentous Fungal Strains 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 Dyadic, Ginkgo Bioworks, 21st.BIO, Novonesis, BRAIN Biotech, 53Biologics, Creative Biogene, Elise Biopharma, Mika Biologics, Acies Bio, etc.

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

Market Segmentation

Engineered Filamentous Fungal Strains 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

Aspergillus Engineered Strains

Trichoderma Engineered Strains

Thermothelomyces/Myceliophthora Engineered Strains

Penicillium Engineered Strains

Fusarium/Acremonium Engineered Strains

Other Filamentous Fungal Strains

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Market segment by Engineering Method

- Classical Mutagenesis and Screening
- CRISPR-Cas Genome Editing
- Metabolic Pathway Engineering
- Protein Secretion Engineering
- Glycoengineering
- Adaptive Laboratory Evolution

Market segment by Delivery Model

- Chassis Host Strains
- Engineered Production Strains
- Screening Strain Libraries
- Master Cell Banks
- Working Cell Banks

Market segment by Application

- Enzyme and Protein Production
- Food and Feed Ingredients
- Biochemical Manufacturing
- Pharma and Agro Applications
- Other

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Major players covered

- Dyadic
- Ginkgo Bioworks
- 21st.BIO
- Novonesis
- BRAIN Biotech
- 53Biologics
- Creative Biogene
- Elise Biopharma
- Mika Biologics
- Acies Bio

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)

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

Chapter 1, to describe Engineered Filamentous Fungal Strains product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Engineered Filamentous Fungal Strains, with price, sales quantity, revenue, and global market share of Engineered Filamentous Fungal Strains from 2021 to 2026.

Chapter 3, the Engineered Filamentous Fungal Strains competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Engineered Filamentous Fungal Strains 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 Engineered Filamentous Fungal Strains 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 Engineered Filamentous Fungal Strains.

Chapter 14 and 15, to describe Engineered Filamentous Fungal Strains sales channel, distributors, customers, research findings and conclusion.

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