

Biotech Ingredients Market is Set to Globally Reach US\$ 156 Billion by 2035 at 7.2% CAGR | Fact.MR

Biotech Innovators Harness Sustainable Actives to Power Next-Gen Ingredients Boom

ROCKVILLE, MD, UNITED STATES, June 3, 2025 /EINPresswire.com/ -- The global [biotech ingredients market](#) is expected to increase from USD 78.3 billion in 2025 to USD 156 billion in 2035, with a CAGR of 7.2%. The market growth is driven by rising demand for sustainable, functional, precision-style ingredients in food, pharma, and personal care markets.



Synthetic biology, fermentation, and AI-optimized biomanufacturing are redefining ingredient innovation so that companies can produce clean-label, high-performance molecules that align with health, environmental, and regulatory goals.

Active ingredients drive growth as consumers demand effective, science-backed, biotech-derived anti-aging and moisturizing solutions. Precision fermentation allows for large-scale manufacturing of peptides, hyaluronic acid, and new actives. Flavors and fragrances are changing, too, with microbe-based, allergen-free, and clean-label products on the rise. From beauty to biopharma, businesses are gravitating towards circular manufacturing, green chemistry, and transparent sourcing fueled by blockchain and bioengineering. With individualized nutrition and wellness taking center stage in consumer choice, biotech ingredients are poised to lead the world's product innovation pipelines.

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Growth Drivers Fueling Market Expansion

Precision and sustainability are the key drivers propelling this market along. Brands are substituting conventional synthesis with bio-based options through fermentation, microbial cultures, and engineered yeasts or fungi. These processes lower carbon footprints, minimize waste, and enhance the traceability of ingredients.

Applications range from haircare and skincare to food and pharma. AI-driven R&D and synthetic biology are assisting in formulating ingredients with specific functions like antioxidant activity, allergen avoidance, and better bioavailability. Incentives from regulations for cleaner production and consumer pressure for transparency also drive the swift commercialization of biotech solutions.

Regional Insights

China dominates with a 9.1% CAGR through strategic investments in biotech and a flourishing cosmetics and pharmaceutical industry. The U.S. is a close second with a strong 8.2% CAGR through innovation, R&D support, and market demand for wellness-driven products. Europe focuses on clean-label regulation and bioeconomy programs. South Korea and Japan, among the Asia-Pacific countries, scale strongly with government backing and consumer interest in natural and functional ingredients.

Key Takeaways from the Market Study

Biotech ingredients market to hit USD 156 billion by 2035.
Global CAGR estimated at 7.2% from 2025 to 2035.
Active cosmetic ingredients lead with 47.7% share in 2025.
China grows fastest at 9.1% CAGR during the forecast period.
Yeast and fungi dominate biotech flavor ingredient sources.
S. biotech ingredients market to expand at 8.2% CAGR.

Survey Insights and Stakeholder Priorities

Fact.MR survey found 81% of industry stakeholders prioritize low-impact ingredient innovation. 74% emphasize global regulatory alignment, especially in biopharma and clean-label foods. Speed of innovation matters: 69% say fast R&D cycles are vital to competitiveness. Regionally, North America leads in AI-driven biotech, while Europe strengthens eco-certification.

Adoption of synthetic biology (65%) and blockchain traceability (58%) is on the rise. Still, scalability and compliance costs remain top concerns. Nearly 77% of stakeholders plan to increase biomanufacturing and green chemistry investments to meet expanding global demand for personalized and eco-conscious biotech solutions.

Companies Targeting

Givaudan SA leads the field with vertically integrated capabilities in cosmetic and food ingredients. IFF follows with a strong biosciences platform. Evonik and BASF dominate pharma and personal care ingredients through advanced fermentation and synthetic biology. Amyris remains a pioneer in fermentation-derived molecules despite restructuring, while Lonza and Merck KGaA excel in pharmaceutical CDMO services. Sanofi and AbbVie advance biopharmaceutical APIs, and niche players like Advanced Biotech focus on flavor extracts. Leaders are integrating AI, sustainability, and scalable production to meet next-gen ingredient demand.

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Segmental Insights

Active cosmetic ingredients will capture 47.7% of the market share in 2025, driven by biotech-based hyaluronic acid, peptides, and enzyme actives for anti-aging and skincare. Brands like DSM, BASF, and Lonza power this segment with science-backed performance.

Flavors take 28.2% share, supported by yeast and filamentous fungi sources offering clean, umami-rich, and plant-based profiles. Companies like Givaudan and Novozymes deliver biotech flavors for allergen-free, vegan, and natural-labeled food products, meeting rising demand in the health-conscious consumer segment.

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The global [vinyl acetate market](#) is valued at US\$ 10.5 billion in 2023 and is projected to reach US\$ 16.2 billion by the end of 2033, expanding at a steady CAGR of 4.5% through 2033.

The [iron chelators market](#) is expected to reach a valuation of US\$ 3.6 billion in 2033 creating an absolute \$ opportunity of US\$ 1.4 billion during the forecast period.

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