

# **Fermented Flavor and Fragrance Ingredients Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Fruity, Floral, Woody, Blends, and Others), Application (Food and Beverages, Personal Care Products, Cosmetics, and Others), and Geography**

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## **Abstracts**

The global fermented flavor and fragrance ingredients market size is expected to grow from US\$ 1.34 billion in 2022 to US\$ 2.68 billion by 2030; it is expected to register a CAGR of 9.0% from 2022 to 2030.

Fermented flavor and fragrance ingredients include flavoring, fragrance, and aromatic ingredients that are produced through microbial fermentation process. These fermentation-derived flavoring and fragrance ingredients are used across various industries such as food and beverages, personal care and cosmetics, perfumes and fragrances, home care, home cleaners, among others. Manufacturers are significantly investing in research and development to manufacture fermentation-derived flavor and fragrance ingredients to meet the rising sustainability, supply, and price concerns related to naturally derived flavors and fragrances.

Traditional and biomass fermentation are traditional methods used for fermentation for ages. However, precision fermentation is considered an advanced type of fermentation used to produce flavors and fragrances. The process of precision fermentation includes a microbial host that is used to obtain a target ingredient, i.e., flavors and fragrances. This is done by genetic modifications affecting the host's DNA by introducing foreign DNA. Bacteria, algae, yeast, and mold are used as a host in precision fermentation.

This advanced fermentation technology requires intensive R&D, from the genetic altering and optimization of the host to feedstock selection and preparation and downstream process design, which will result in high standards of the final ingredient. This fermentation technique is more sustainable. Thus, with a growing world population to feed, severe climate changes, and the reduction of fertile lands to grow food, the demand for more efficient, sustainable, and arable land-free technologies that produce food ingredients is required. Thus, the increasing need for technologies with a lower environmental footprint is expected to boost the fermented ingredients for flavors and fragrance market growth during the forecast period.

The key market players use precision fermentation technology to launch natural flavors and fragrances. For instance, Insempra recently launched a violet and raspberry fragrance developed through precision fermentation. Thus, the advancement in fermentation technology such as precision fermentation, is expected to create lucrative opportunities for the fermented ingredients for flavors and fragrance market during the forecast period.

Based on Application, the personal care segment accounted for the dominating share of the fermented flavor and fragrance ingredients market in 2022. The demand for fermented flavors and fragrances is increasing in personal care products such as body oil, body lotion, shampoo and conditioners, bath products, as the rising concern about skin diseases and skin problems across the globe is boosting the demand for natural ingredients in personal care industry. The adoption of 'clean label' and 'natural' products is increasing worldwide. Thus, personal care manufacturers demand ingredients free from any synthetic chemical and considered natural. This has led to the increasing use of fermented flavors and fragrances as 'natural' additives while manufacturing personal care products.

A few players operating in the fermented flavor and fragrance ingredients market include Givaudan SA, Firmenich International SA, Takasago International Corp, BASF SE, and Evolva Holding SA, Amyris Inc, Insempra GmbH, Conagen Inc, Jeneil Biotech Inc, and Dohler GmbH. Players operating in the fermented flavor and fragrance ingredients market focus on providing high-quality products to fulfill customer demand. Also, they are focusing on launching new and high-quality products for their customers.

The overall fermented flavor and fragrance ingredients market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary

interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the fermented flavor and fragrance ingredients market.

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