

LAVENDER AND ITS MODERN USE IN FOOD INDUSTRY NOWADAYS

R. JIGĂU¹, F. IMBREA¹, R. PAȘCALĂU¹, Laura ȘMULEAC¹,

¹University of Life Sciences “King Mihai I” from Timișoara
Corresponding author: raul.pascalau@usvt.ro

Abstract. Lavender, known for its distinct floral aroma, has been used in culinary practices for centuries. Traditionally, lavender was primarily utilized in herbal teas and potpourri. However, in recent years, lavender has gained popularity as an ingredient in the food industry, especially in modern cuisine and the production of various food and beverage products. Here are some of the modern uses of lavender in the food industry nowadays: *Flavouring Agent:* Lavender is employed as a flavouring agent in a range of food and beverage products. It imparts a delicate floral note and a slightly sweet and herbaceous flavour. Chefs and food manufacturers use lavender to infuse flavour into items such as desserts, baked goods, chocolates, ice creams, cocktails, and even savoury dishes like salads and sauces. *Herbal Teas and Infusions:* Lavender continues to be a popular ingredient in herbal teas and tisanes. Its soothing properties and pleasant aroma make it a favoured choice for tea blends. Lavender infusions can also be used in other beverages like lemonades and cocktails, adding a unique and refreshing twist. *Baking:* Lavender can be incorporated into various baked goods, including cookies, cakes, scones, and bread. It pairs well with citrus flavours, vanilla, and chocolate, enhancing the overall taste and adding an enticing fragrance. It's important to note that lavender should be used sparingly to avoid overpowering the dish. *Culinary Seasoning:* In savoury cooking, lavender is sometimes used as a seasoning, particularly in Mediterranean and Provençal cuisine. It can be added to dishes like roasted meats, stews, marinades, and sauces to impart a subtle floral flavour. However, caution should be exercised to prevent excessive use, as lavender can easily dominate the dish if not balanced properly with other ingredients. *Condiments and Jams:* Lavender is utilized in the production of condiments and spreads, such as lavender-infused honey, lavender-infused oils, and lavender jams or jellies. These products provide a unique twist to traditional spreads and add a touch of floral sophistication. *Artisanal Chocolates and Confections:* Chocolatiers and confectioners often incorporate lavender into their creations. Lavender-infused chocolates, truffles, caramels, and nougats have gained popularity for their delicate and sophisticated flavour profiles.

Keywords: lavender, industry, alimentation, impact, food.

INTRODUCTION

When using lavender in cooking, it's important to note that not all lavender varieties are suitable for culinary purposes. English lavender (*Lavandula angustifolia*) and Provence lavender (*Lavandula x intermedia*) are among the preferred culinary lavender varieties due to their milder flavour profiles.

While lavender can add a delightful and aromatic dimension to various dishes, it's crucial to use it in moderation. Lavender has a strong taste, and too much can result in an overpowering, soapy flavour. It is best to start with small quantities and adjust to personal taste preferences (BASCH AND ALL.,2004).

As with any ingredient, it is essential to ensure the lavender used in food is of high quality, free from pesticides or other contaminants, and intended for culinary purposes. Of course, its importance became long time ago, an international one, with also a lot of impact in research and education, especially in HEIs, with Plants departments, or in PhD programs in research (PAȘCALĂU AND ALL.,2020).



Its cultivation and maturity depends on a lot of factors, such as soil quality, irrigation methods and ways of cropping it (ŞMULEAC AND ALL., 2020).

Some common approaches used to incorporate lavender into culinary creations:

Culinary-Grade Lavender: Start with high-quality culinary-grade lavender. Look for lavender varieties such as English lavender (*Lavandula angustifolia*) or Provence lavender (*Lavandula x intermedia*) that are specifically cultivated for culinary purposes. Ensure that the lavender is free from pesticides or other contaminants.

Dried or Fresh Lavender: Lavender can be used either in its dried or fresh form, depending on the recipe and personal preference. Dried lavender is more commonly used as it provides a concentrated flavour, while fresh lavender offers a more subtle and delicate taste.

Infusing: One of the primary methods of using lavender is through infusion. This involves steeping lavender buds or sprigs in a liquid such as water, milk, cream, oil, or alcohol to extract its flavour and aroma. The infusion time can vary depending on the desired intensity of the lavender flavour.

Grinding or Crushing: Lavender buds can be ground or crushed before incorporating them into recipes to release their essential oils and enhance their flavour. This can be done using a mortar and pestle, spice grinder, or by wrapping the lavender buds in a cloth and gently crushing them with a rolling pin.

Balancing Flavours: When using lavender in culinary creations, it is crucial to balance its potent flavour with other ingredients. Lavender has a strong taste and can easily overpower a dish if not used judiciously. Experiment with small quantities and adjust to personal taste preferences.

Pairing Ingredients: Consider the complementary flavours that work well with lavender. It is often paired with ingredients like lemon, vanilla, berries, honey, chocolate, and herbs such as thyme or rosemary. These combinations create harmonious flavour profiles and enhance the overall culinary experience.

Recipe Development: Chefs and food enthusiasts experiment with lavender in various recipes, such as desserts, baked goods, beverages, condiments, and even savoury dishes. They explore different techniques, ingredient combinations, and cooking methods to create unique and innovative culinary delights.

It is important to note that specific recipes and techniques may vary depending on the desired outcome and the creativity of the culinary professional or home cook. Following established recipes or seeking guidance from reputable sources can provide a solid foundation for incorporating lavender into culinary creations.



MATERIAL AND METHODS

In the current research the analysis method has been used, also the studies that I undertook during the last 2 years while studying different types of crops and going in different lavender plantation from the Banat region. Also, discussing with several providers from the food industry I was able to identify various uses and to discover it under different types of recipes, but also under different forms from other industries. What I have also learned during my research was the importance of underground water irrigation and how it is performed in different regions from Banat, where most of the investigated lavender plantation were (ŞMULEAC AND ALL., 2016).

The quality of different soils where I have discovered lavender plantation was very important in determining which are the best types of soils and fertilization and how it influences lavender crops and quality (CAMEN, D AND ALL., 2016).

The modern use of lavender in the food industry has yielded intriguing results, captivating both chefs and consumers with its unique flavour and aroma. Here are some key results and discussions surrounding the incorporation of lavender in culinary creations:

➤ **Flavour Enhancement:** Lavender has proven to be a versatile flavouring agent, enhancing a wide range of dishes. Its delicate floral notes and subtle sweetness can elevate desserts such as cakes, cookies, and ice creams, providing a captivating twist. In savoury dishes, lavender can add a hint of complexity, especially in Mediterranean and Provençal cuisine, where it harmonizes with roasted meats, stews, and sauces.

➤ **Aromatic Elegance:** The captivating fragrance of lavender adds an element of sophistication to culinary creations. The aroma can entice the senses and create a memorable dining experience. Lavender-infused oils, honeys, and spreads have gained popularity for their enchanting scents and unique appeal (JIANU AND ALL., 2013).

➤ **Balanced Use:** One of the critical factors in successfully incorporating lavender into food is achieving the right balance. Lavender has a strong flavour profile, and its excessive use can result in an overpowering, soapy taste. Chefs and home cooks must exercise caution and start with small amounts, gradually adjusting to their preferred taste.

➤ **Culinary Creativity:** Lavender's versatility has inspired culinary professionals to explore new possibilities in recipe development. From lavender-infused chocolates and confections to lavender-scented cocktails and artisanal bread, chefs have pushed the boundaries of culinary innovation, showcasing the herb's potential in various culinary realms.

➤ **Consumer Appeal:** The use of lavender in food has gained significant consumer appeal, reflecting evolving taste preferences and a desire for unique culinary experiences. The inclusion of lavender in menus and food products has attracted those seeking novel flavours and a touch of elegance in their dining choices.

➤ **Health and Wellness Perception:** Lavender is associated with relaxation and calming effects. Its incorporation in food products has appealed to individuals seeking a holistic

approach to wellness. Lavender-infused teas, beverages, and desserts are often marketed for their potential soothing properties, adding an additional layer of appeal for health-conscious consumers.

➤ **Farm-to-Table Movement:** The modern use of lavender in the food industry has contributed to the farm-to-table movement. Lavender farms and local producers have gained recognition for their culinary-grade lavender varieties, allowing chefs and consumers to source high-quality, fresh lavender for their creations (ROBU AND ALL, 2011).

RESULTS AND DISCUSSIONS

While the use of lavender in the food industry has gained popularity, it is important to consider individual preferences and cultural contexts. Lavender may not be universally accepted in all culinary traditions, and it is essential to respect cultural sensitivities and tastes. Overall, the modern use of lavender in the food industry showcases its versatility and appeal as a flavouring agent and aromatic enhancer. As chefs continue to experiment with this captivating herb, we can expect to see further innovations and delightful culinary creations that harness the unique qualities of lavender to create memorable dining experiences.

The modern use of lavender in the food industry has brought forth a new wave of culinary creativity, captivating chefs and consumers alike. Lavender's delicate floral flavour and captivating aroma have found their way into a wide array of dishes, beverages, and food products, adding elegance and intrigue to the culinary world (DUDAREVA AND ALL., 2013).

Its international use is due to the various types of processing and diverse products that may be obtained, its study also become more and more efficient in life sciences HEIs or programme studies (PAŞCALĂU AND ALL.,2021).

Through careful infusion, grinding, and balancing of flavours, lavender has enhanced desserts, baked goods, savoury dishes, and condiments, creating unique and memorable flavour profiles. Its versatility as a flavouring agent and aromatic enhancer has allowed chefs to push the boundaries of recipe development and offer consumers an exquisite dining experience.

However, it is important to note that the use of lavender in food should be approached with caution (CAVANAGH ET ALL., 2002). Its strong flavour can easily overpower a dish if not used judiciously. Starting with small amounts and adjusting to personal taste preferences is key to achieving a balanced and enjoyable culinary creation.

To become an efficient asset, and to be used and processed accordingly, the crops have to be grown in suitable conditions, with irrigation and water consume only as much as it has to be given, not in very irritated areas, or soils with high content of water (SMULEAC AND ALL, 2022).

The modern use of lavender in the food industry has also reflected evolving consumer preferences, with its appeal reaching health-conscious individuals seeking holistic wellness and unique gastronomic experiences. Lavender's association with relaxation and its farm-to-table movement have further contributed to its growing popularity (IRITI AND ALL., 2006).

As we continue to explore the potential of lavender in the culinary realm, it is important to respect cultural sensitivities and tastes, as lavender may not be universally accepted in all culinary traditions.

In conclusion, the modern use of lavender in the food industry showcases its versatility, appeal, and ability to transform ordinary dishes into extraordinary culinary delights. Whether it's a lavender-infused dessert, a lavender-scented cocktail, or a savoury dish with a hint of floral elegance, lavender has firmly established itself as a beloved ingredient that adds a touch of sophistication and intrigue to our dining experiences (LANE AND ALL., 2010).

From a financial point of view, the inclusion of lavender in the food industry has brought several positive outcomes:

Market Expansion: The introduction of lavender-infused products has opened up new market opportunities for businesses. The unique flavour and appeal of lavender have attracted a niche market segment, expanding the customer base and potentially increasing sales.

Premium Pricing: Lavender-infused food and beverages are often positioned as premium or specialty products. Due to their unique flavour profile and associations with luxury or sophistication, these products can command higher price points compared to standard offerings. This premium pricing strategy can lead to increased profit margins and revenue for businesses.

Product Differentiation: Lavender provides a distinct and recognizable flavour that sets products apart from competitors. By incorporating lavender into their offerings, businesses can differentiate themselves in the market, attracting customers who are seeking unique and innovative culinary experiences. This differentiation can lead to increased brand recognition, customer loyalty, and a competitive edge in the industry.

Value-Added Ingredients: Lavender serves as a value-added ingredient, enhancing the perceived quality and value of food products. The addition of lavender can justify higher price points and create a perception of added value, contributing to increased profitability for businesses.

Culinary Tourism and Experiences: The use of lavender in the food industry has also contributed to the growth of culinary tourism and experiences. Lavender farms and establishments that offer lavender-themed culinary events, such as lavender-infused cooking classes or tastings, can attract visitors and generate additional revenue streams.

Brand Extension and Diversification: Lavender-infused food and beverages can also provide opportunities for brand extension and diversification. Businesses that traditionally focus on a specific product category, such as bakery items or beverages, can expand their product offerings by incorporating lavender, tapping into new markets and appealing to a broader range of consumers (LUNGU AND ALL., 2014).

These financial benefits highlight how the inclusion of lavender in the food industry can lead to increased profitability, market growth, and enhanced brand positioning. However, it's important to note that the financial outcomes may vary depending on factors such as market demand, pricing strategies, competition, and effective marketing and distribution strategies (PAȘCALĂU AND ALL., 2022).

CONCLUSIONS

In conclusion, lavender has become increasingly important in the modern food industry due to its distinctive flavour, versatility, and aesthetic appeal. Its unique floral and slightly sweet taste has allowed it to find its way into a variety of culinary applications, enhancing the flavours of both sweet and savoury dishes. From baked goods to beverages, lavender adds a touch of sophistication and intrigue, elevating the overall taste experience.

Moreover, lavender offers versatility in the kitchen, allowing for various infusions and culinary creations. Whether infused in oils, syrups, or creams, lavender captures its essence, creating a range of aromatic ingredients that can be used to impart its flavour into a multitude of dishes. Additionally, the vibrant purple petals of lavender serve as an eye-catching garnish, enhancing the visual presentation of food and beverages. While lavender is primarily valued for its flavour and aesthetic qualities, it is also associated with potential health benefits, particularly its calming and relaxing properties. While further research is needed to fully understand its effects in food, the consumption of lavender-infused dishes or beverages may provide a

soothing experience. Overall, lavender has found a special place in the modern food industry, offering chefs and food enthusiasts a unique ingredient to experiment with. Its importance lies not only in its culinary applications but also in its ability to spark creativity and provide a memorable sensory experience. By adding a touch of lavender, dishes become infused with an aromatic allure that captivates the palate and pleases the senses, making it a sought-after ingredient in contemporary gastronomy.

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