

Cultivation, Extraction, Identification and Various Pharmacological Activity of Holy Basil Oil

ValateMansi S., Shinde Tanmay R., Khadse Riya A., Kolpakar Mrunal A., Ms. Padwal Prachi N.
Samarth Institute of Pharmacy, Belhe, Pune

Abstract: *Ocimum sanctum* is commonly known as Holy Basil Oil, is a fruit rich in essential oils with a wide range of potential health benefits. This review paper explores the chemical composition, extraction methods, and biological activities of *Ocimum sanctum* essential oil. The major constituents of HBEO include eugenol, beta caryophyllene, and linalool. These compounds have been shown to possess antimicrobial, antioxidant, anti-inflammatory, and anticancer properties. The potential applications of HBEO in various fields, including Ayurveda and herbal medicine, aromatherapy and essential oil, cosmetics, and pharmaceuticals, are also discussed. Further research is needed to fully understand the mechanisms of action of HBEO and to explore its potential as a safe and effective natural remedy. This review paper explores various extraction techniques for obtaining essential oil from Holy basil, The chemical composition of the extracted essential oil, primarily consisting of eugenol is discussed, along with its potential health benefits and applications. The paper also highlights the importance of sustainable extraction practices and the potential for valorizing tulsi by-products to obtain valuable essential oils.

Keywords: Holy basil oil, cultivation, extraction, identification, antioxidant property, Anticancer, antioxidant, antiulcer, antidiabetic, antimicrobial