

Research article

Potential (2,2-azinobis (3-ethylbenzotiazolin) -6-sulfonic acid) reducing and anti-elastase of ethanol extract of KEMANGI leaves (*Ocimumbasilicum L.*) and Eugenol

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Abstract

Aging is a complex process characterized by a progressive decrease in the physiological functions of the body, including the skin, followed by dysfunction, and death. Kemangi leaves (*Ocimumbasilicum L.*) have been used empirically and are scientifically proven to have a variety of pharmacological activities, including analgesic, sedative, anti-inflammatory, antioxidant, antiaging, antimicrobial, antifungal, antiviral and contains chemical compounds eugenol, linalool, β -Caryophyllene. The purpose of this study was to determine the antioxidant activity and anti-elastase of the ethanol extract of kemangi leaves and eugenol. In this study, antioxidant activity was tested by ABTS reduction method (2,2-Azinobis (3-ethylbenzotiazolin) -6-sulfonic acid) and elastase inhibition tested by ethanol extract of kemangi leaves with a comparison of eugenol compounds. The results of ABTS reduction antioxidant activity based on IC_{50} Eugenol value of 2.09 $\mu\text{g} / \text{ml}$ and ethanol extract of kemangi leaves of 18.27 $\mu\text{g} / \text{ml}$, anti-elastase from Eugenol at 37.49 $\mu\text{g} / \text{ml}$ and ethanol extract of kemangi leaves at 43.02 μ / ml .
