

Optimization of Ethanol Extract of Gotu Kola and Majapahit Composition as Natural Antioxidant Source

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Abstract : The development of natural antioxidants in the *Centella asiatica* and Majapahit is a great potential. This research has been optimizing the composition of ethanol extract of *Centella asiatica* and leaves Majapahit as an antioxidants source using measure the free radical scavenging activity of DPPH. The results of the research showed that both the ethanol extract of *Centella asiatica* and leaves Majapahit has a total content of phenol. It is shown with the ability to reduce reagent Folin Ciocalteu become blue colour. The composition optimization of extract *Centella asiatica* leaves Majapahit = 30:70 has free radical scavenging activity of DPPH most well compared ethanol extract of *Centella asiatica* and leaves Majapahit. IC50 values for the composition of ethanol extract of *Centella asiatica* : leaves Majapahit = 30:70 is 0,103 mg/mL.

Keywords : antioxidant activity, *Centella asiatica*, *Crescentia cujete*, composition extract

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