IDENTIFIKASI SENYAWA METABOLIT SEKUNDER, UJI AKTIVITAS ANTIOKSIDAN DAN UJI FENOLIK TOTAL DARI EKSTRAK DAUN BENALU JENGKOL (*Scurrula ferruginea (*Jack) Danser)

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2017

ABSTRACT

IDENTIFICATION OF SECONDARY METABOLITE COMPOUNDS, ANTIOXIDANT ACTIVITY TEST AND TOTAL PHENOLIC CONTENT OF LEAF EXTRACT OF JENGKOL PARASITE (*Scurrula ferruginea* (Jack.) *Danser.*)

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ABSTRACT

Identification of secondary metabolite compounds, antioxidant activity test and total phenolic content of leaf extract of jengkol parasite (*Scurrula ferruginea* (Jack) Danser) have been done. Leaf extraction of parasite is done by maceration. Secondary metabolites contained in jengkol leaves are alkaloids, phenolic, and steroids. This study aims to determine the total phenolic content and antioxidant activity in the leaf extract of leaf parasite jengkol. Methanol, ethyl acetat, and hexane solvent are used to extract chemical compounds by maceration method. Determination of total phenolic content by Folin-Ciocalteau method and antioxidant activity by DPPH (*1,1-diphenyl-2-pycrilhydrazil)* method. Research result showed that the highest total phenolic content was found in the methanol extract (1,05 mg GAE/10 mg dry extract). Antioxidant activity third extract methanol with IC_{50} value (141,7723 mg/L) classified as medium antioxidant, while extracts of ethyl acetat (295,3028 mg/L) and extracts of hexane (358,0365 mg/L) classified as weak antioxidant.

Key words: *Scurrula ferruginea* (Jack.) *Danser.*, antioxidant, total phenolic