

ABSTRACT

ANTIOXIDANT ACTIVITY AND TOTAL PHENOLIC CONTENT EXTRACT AND COLUMN FRACTIONS OF ETHYL ACETATE FROM LEAF OF *Lantana camara* L.

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The ethyl acetate extract of *Lantana camara* L. was subjected to investigate its antioxidant properties by DPPH method and IC_{50} value was found to be 36.18 mg/L with a total phenolic content was 2419.6 GAE. The concentrated ethyl acetate extract of *Lantana camara* L. was column chromatographed by separation gradien polarity (SGP) method system using silica gel as the stationary phase then n-hexane, ethyl acetate and methanol as the mobile phases. Seven fractions were obtained, each fractions was subjected to investigate its antioxidant properties and total phenolic content. Thus IC_{50} value and total phenolic content of each fractions were found to be: Fraction A (132.62 mg/L and 237.8 GAE), Fraction B (113.51 mg/L and 589.4 GAE), Fraction C (85.23 mg/L and 995.5 GAE), Fraction D (81.26 mg/L and 1041 GAE), Fraction E (24.83 mg/L and 3156 GAE), Fraction F (83.50 mg/L and 1037.8 GAE), and Fraksi G (806.71 mg/L). Based on the IC_{50} , extract ethyl acetate and Fraction E are highly active antioxidants, fraction C, D, and F are active antioxidant, fraction A and B moderate antioxidant and fraction G is not aktive antioxidant. Antioxidant activity is influenced by total phenolik with correlation number was 98.14%.

Keywords: *Lantana camara* L., antioxidant, DPPH, total phenolic content, IC_{50} .