**UJI AKTIVITAS ANTIOKSIDAN EKSTRAK DAUN JENGKOL (*Archidendron pauciflorum* (Benth.)I.C.Nielsen) DENGAN**

**METODE DPPH *(1,1-difenil-2-pikrilhidrazil)***

**AISYAH BADDRIAH MANURUNG**

**NPM. 182114031**

# ABSTRAK

Daun jengkol *(Archidendron Pauciflorum* (Benth.)I.C.Nielsen*)* mengandung alkaloid, tanin, saponin, flavonoid, steroid/triterpenoid. Penelitian ini bertujuan untuk mengetahui golongan senyawa kimia yang terkandung pada simplisia dan ekstrak daun jengkol serta aktivitas antioksidan ekstrak daun jengkol.

Tahapan penelitian meliputi pengumpulan dan pengolahan simplisia, pembuatan ekstrak secara maserasi dengan pelarut etanol 96%. Skrining fitokimia terhadap serbuk dan ekstrak daun jengkol meliputi pemeriksaan golongan senyawa alkaloid, tanin, saponin, flavonoid, dan steroid. Pemeriksaan karakteristik serbuk simplisia. Uji aktivitas antioksdan ekstrak daun jengkol dilakukan dengan metode DPPH (1,1-difenil-2-pikrilhidrazil), dimana absorbansi DPPH diukur menggunakan spektrofotometer Vis pada panjang gelombang 516 nm.

Hasil skrining fitokimia, serbuk dan ekstrak simplisia mengandung senyawa alkaloid, tanin, saponin, flavonoid, steroid/triterpenoid. Hasil pemeriksaan karakteristik serbuk simplisia diperoleh kadar air 6,66%, kadar sari yang larut air 16,66%, kadar sari larut etanol 26,66%, kadar abu total 1,3%, kadar abu tidak larut asam 0,42%. Hasil pengukuran aktivitas antioksidan ekstrak daun jengkol menunjukkan kekuatan kategori “sangat kuat” dengan nilai IC50 sebesar 2,4807 ppm.

**Kata kunci :** *Antioksidan, Daun Jengkol, DPPH.*

***ANTIOXIDANT ACTIVITY TEST OF JENGKOL LEAF EXTRACT (Archidendron pauciflorum (Benth.) I.C.Nielsen) BY DPPH***

***METHOD (1,1-diphenyl-2-picrilhydrazyl)***

**AISYAH BADDRIAH MANURUNG**

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# *ABSTRACT*

*Jengkol leaf (Archidendron Pauciflorum (Benth.) I.C.Nielsen) contains alkaloids, tannins, saponins, flavonoids, steroids/triterpenoids. The objective of this research was to determine the class of chemical compounds contained in simplisia and jengkol leaf extract as well as the antioxidant activity of jengkol leaf extract. The research stages include the collection and processing of simplicia, the manufacture of extracts by maceration with 96% ethanol solvent. Phytochemical screening of jengkol leaf powders and extracts includes examination of alkaloid compounds, tannins, saponins, flavonoids, and steroids. Examination of the characteristics of simplicia powder. The antioxidant and extract activity test of jengkol leaf extract was carried out using the DPPH method (1,1-diphenyl-2-picrilhydrazyl), where DPPH absorption was measured using a Vis spectrophotometer at a wavelength of 516 nm. The results of phytochemical screening, powders and simplician extracts contain alkaloid compounds, tannins, saponins, flavonoids, steroids / triterpenoids. The results of the examination of the characteristics of simplicia powder obtained a moisture content of 6.66%, a water-soluble juice content of 16.66%, an ethanol soluble juice content of 26.66%, a total ash content of 1.3%, an acid insoluble ash content of 0.42%. The results of measuring the antioxidant activity of jengkol leaf extract showed the strength of the "very strong" category with an IC50 value of 2.4807 ppm.*

***Keywords:*** *Antioxidants, Jengkol Leaf, DPPH.*