

Potensi senyawa golongan fenolik ekstrak buah Kesemek diospyros kaki l terhadap pembentukan aterosklerosis pada tikus putih = Potential of phenolic compound groups extract persimmon fruits diospyros kaki l to the fotrmation of atherosclerosis on rats

Alhara Yuwanda, author

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#### Abstrak

Kesemek (*Diospyros kaki L.*) merupakan tanaman tradisional Korea yang tumbuh di Indonesia dan secara empiris digunakan untuk kesehatan maternal. Penelitian dilakukan untuk mengetahui efek antioksidan yang dapat digunakan untuk mengurangi oksidasi LDL dan berpotensi sebagai antiaterosklerosis pada tikus putih jantan galur Sprague-Dawley yang di induksi dengan diet kolesterol. Uji antioksidan dengan metode DPPH menghasilkan nilai IC<sub>50</sub> 44,07 ± 15,06 mg/ mL. Hasil ANAVA satu arah (P= 0,05) menunjukkan penurunan nilai kolesterol total, trigliserida, dan LDL melalui perhitungan dan kenaikan HDL secara bermakna terhadap kelompok normal dan kontrol (-) serta penurunan tebal aorta dan jumlah sel busa . Sehingga disimpulkan ekstrak kesemek dapat mencegah aterosklerosis.

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Persimmon fruits (*Diospyros kaki L.*) is a traditional plant in Korea and can be growth in Indonesia that has been used empirically to promote maternal health. The research has been done to figure out the antioxidant effect can use to prevent oxidation LDL and potential to the antiatherosclerosis on rats strain Sprague-Dawley previously induced by cholesterol diet. The scavenging activity against DPPH (1,1-diphenyl-2-picrylhydrazyl) radicals of the ethanol extracts of these plants were investigated. The extract of *D. kaki* was found to be the most potent, with an IC<sub>50</sub> value of 44,07 ± 15,06 mg/ mL. One way ANOVA (P=0,05) of study showed reduction total cholesterol, triglycerides, LDL, and raise HDL were significantly amoung normal groups and control (-) along with relieve aortic sel foam. Result reflecting the protective effect of persimmon against atherosclerosis.