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Chemical constituents and radical scavenging activity of *Cuscuta pedicellata* seed extracts

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Abstract : The seeds oil of *Cuscuta pedicellata* was extracted with pet. ether in a Soxhlet for two days and it's constituents were identified using GC/MS analysis. It was found that, the lipid constituents of pet. ether was found as oily residue which saponified to afford the unsaponifiable materials (saturated hydrocarbons, sterols and triterpenes) and 15 fatty acids which were identified by GC/MS analyses. The flavonoids were isolated from the ethyl acetate fraction and identified as: : Genkwanin, Astragalin, kaempferol and quercetin. The antioxidant activity of different extracts (pet. ether, unsap., fatty acids, 70% methanol, chloroform and ethyl acetate) were evaluated.Antioxidant properties were determined using the2,2-diphenyl-1-picryl-hydrazyl (DPPH) free radical. It was observed that methanol extract exhibited highest DPPH activity followed by ethyl acetate extract.

Key words : *Cuscutaceae, Cuscuta ,* lipid constituents, flavonoids and antioxidant activity.

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