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Der Pharmacia Lettre

Abstract

[Total phenolic and flavonoids content, and in vitro antioxidant and](#)

antimicrobial activity of ethyl acetate and butanol extract from Senecio delphinifolius Vahl.

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The present work focuses essentially on the total phenolic and flavonoidscontents, and in vitro antioxidant and antimicrobial activity of two fractions: ethyl acetate and n-butanol extracts of an Algerian endemic plant: Senecio delphinifolius. The total phenolic content was determined using Folin-ciocalteu reagent to yield 7.22 ± 0.84 and 7.86 ± 0.25mg GA/mg respectively. The flavonoids contents were 22.96 ± 1.41 and 10.25 ± 8.94 mg Q/mg respectively. Antioxidant activity was performed using DPPH reagent. Antioxidant activity ranged from 80.48 % to 73.91 %, using ascorbic acid as a control test. The antimicrobial activity of the two extracts was investigated using a diffusion method against most common pathogenic bacterial strains: E. coli ATCC 2592, Pseudomonas aerogenosa ATCC2783, Staphylococcus aureus ATCC 252923, Selmonella sp., Klebseilla pneumonia and one fungus Candida albicans. The finding show that this extracts have a strong antioxidant activity and can be used as a natural source of scavenging agents.

- PDF

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