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Der Pharmacia Lettre

Abstract

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

antibacterial activity of *Aster squamatus* Hier. leaves extracts

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The present study describes the total phenolic and flavonoids content and in vitro antioxidant and antibacterial activity of ethyl acetate and n-butanolic extracts from *Aster squamatus* growing in Algeria. Total phenolic and total flavonoids content were evaluated according to the Folin-Ciocalteu procedure, and a colorimetric method. The total phenolic amount of the two extracts was 8.86 ± 1.31 and 19.82 ± 1.61 mgAG/mg E respectively, whereas the flavonoids were 47.11 ± 2.82 and 58.53 ± 5.10 mg Q / mg E respectively. Antioxidant activity was analyzed using DPPH assay and recorded at 10-1M to be 94.55% and 87.71% for the two extracts (n-BuOH), (EtOAc) respectively using ascorbic acid as a control test. Furthermore the antibacterial activity of the two extracts were evaluated by disc diffusion method and tested against six human pathogenic bacterial strains: The butanolic extracts showed a good antibacterial activity against *klebsiella pneumoniae* ATCC 700603, *Staphylococcus aureus* ATCC 25923, at a concentration of 0.5 mg/ml.

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