

Preliminary Phytochemical Screening, Analysis of Phenolic Compounds and Antioxidant Activity of *Genista cephalantha* Spach. (Fabaceae)

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Abstract : This study was designed to establish a preliminary phytochemical screening, evaluate the phenolic and flavonoid content according to the Folin-Ciocalteu procedure, and aluminum chloride method respectively and to determine qualitatively, using HPLC-UV method, the most important products present in ethyl acetate (EtOAc) and n-butanol (n-BuOH) extracts of the aerial parts of *Genista cephalantha* Spach. from East Algeria. The antioxidant activity of these extracts was spectrophotometrically tested by measuring their ability to scavenge a stable DPPH free radical and by β -Carotene/linoleic acid bleaching assay. Evaluated extracts showed a good activity in both antioxidant system assays.

Keywords : phenolic compounds, flavonoids, HPLC-DAD-UV, antioxidant activity, *genista cephalantha*, fabaceae

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