

## Evaluations Of The Antioxidant Activity Of Medical Plant Grown In Morocco By Different Methods

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### Abstract

Moroccan ecosystems are rich of a great and diverse floral of aromatic and medicinal plants that could be a potential source in the discovery of new bioactive compounds with large spectrum of biological activities, one of these activities is antioxidant activity. Our study aim was to evaluate the phenolic content, flavonoid content and the antioxidant activity of a spontaneous medicinal plant from Morocco in order to identify new compounds that could be used as natural antioxidants. For this study we used different solvents and methods for extraction, also for the antioxidant activity of extracts, their fractions were measured by 2,2-diphenyl-1-picrylhydrazyl (DPPH), ferric reducing antioxidant power (FRAP). The results showed that all test extracts have an amount of phenolic, and flavonoid and good results in all the in vitro methods of antioxidant assays studied but this amount could change with the change of the extraction solvent or the method used for extraction. This is the first report of the detailed chemical composition and antioxidant activity of this plant. The results suggest that this plant can be used as a new source of natural antioxidants.

### Biography

Amal Naama is 28 years old. She had her master's degree in the valorization of natural plant resources from ENS Rabat. Currently, she is a Ph.D student in the faculty of sciences in Morocco. She is working in plants chemistry,

especially medical and aromatic plants at the laboratory of plants, chemistry, and organic and bioorganic synthesis.