

Assesment of Phytochemicals and Antioxidant Activity of *Lavandula antineae* Maire from Algeria

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Abstract : *Lavandula antineae* Maire is an endemic medicinal plant of Algeria which is traditionally used for the treatment of chills, bruises, oedema and rheumatism. The present study was designed to investigate the phytochemical screening, total phenolic and antioxidant activity of *Lavandula antineae* Maire for the first time. Phytochemical screening revealed the presence of different kind of chemical groups (anthraquinones, terpenes, saponins, flavonoids, tannins, O-heterosides, C-heterosides, phenolic acids). The amounts of total phenolics in the extracts (hydromethanolic and ethyl acetate extract) were determined spectrometrically. From the analyses, ethyl acetate extract had the highest total phenolic content (262.35 mg GA/g extract) and antioxidant activity (IC₅₀=7.10 µg/ml) using DPPH method. The ethyl acetate extract was also more potent on reducing power compared to hydromethanolic extract. The results suggested that *L. antineae* could be considered as a new potential source of natural antioxidant for pharmaceuticals and food preservation.

Keywords : *Lavandula antineae*, antioxidant activity, phytochemical screening, total phenolics

Conference Title : ICSRD 2020 : International Conference on Scientific Research and Development

Conference Location : Chicago, United States

Conference Dates : December 12-13, 2020