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Abstract

Phytochemical screening and extraction of polyphenol from stems

and leaves of a Lebanese Euphorbia macrolada schyzoceras Boiss

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In our work, the primary phytochemical screening of stems and leaves from Euphorbia macroclada schyzoceras grown in Lebanon has been accomplished. Also, the extraction and the partial purification of the phenolic compounds of the two parts of this plant have been done and their scavenger activity has been evaluated using two different tests, the DPPH and the H2O2 test. The obtained results of the phytochemical screening showed the existence of terpenoids, flavonoids, tannins, phenols, saponins, and alkaloids in the two studied parts of the plant. On the other hand, our results demonstrated that the total phenolic content (TPC) of E. macroclada was found at higher levels at 10.57±0009 mg/ml of leaves. The DPPH test demonstrated a higher antioxidant potential at 2.4 mg/ml of E. macroclada. Moreover, the H2O2 test showed that this maximal antioxidant activity was at 1.6 mg/ml of E. macroclada.

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