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Evaluation of antioxidant activity and phytochemical analysis of *Osyris quadripartita*

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Osyris quadripartita in the Arabic is Madjdade, is a medicinal plant used in traditional herbal medicine to treat cancer.

The studied plant was harvested from Misserghin-Algeria- on June 2008. The extraction by heat reflux with distilled water was carried out. The antioxidant activity was evaluated *in vitro* by DPPH assay and compared with authentic antioxidants. In parallel of this biological study, screening of secondary metabolism phytoconstituents was undertaken with polyphenols and flavonoids quantification.

The results of antioxidant test showed that this plant is very active and has almost similar activity with BHA.

The results of phytochemical tests demonstrated the presence of polyphenols (flavonoids, lignans, coumarins), the anthracenic derivated and sesquiterpene lactones.

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