

Antioxydant Activity of Flavonoid's Extracts of *Rhamnus alaternus* L. Leaves of Tessala Mountains (Occidental Algeria)

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Abstract : *Rhamnus alaternus* L. is a shrub that belongs to the family of Rhamnaceae. It is a medicinal plant that is largely used in traditional medicine in Algeria. Five flavonoic extracts obtained of *Rhamnus alaternus* L. leaves. The flavonoids were evaluated by a method that uses aluminum chloride $AlCl_3$ of each extract; the content is estimated at 19.33 (Hexanic. Extract), 18.42 (Chlroformic.extract), 16.75 (Acetate. Extract), 3.9 (Brute. Extract), and 3.02 (Aqueous. Extract) mg Equivalent quercetine/gram of extract (mg QE/ g extract). The antioxidant activity was realized by the antiradical test that was evaluated by using DPHH (2,2 diphenyl-1-picrylhydrazil), the inhibitory concentration at 50% (CI50) were estimated at 74.78 (Vitamin.C), 143.78 (Catechine), 101.78 (Gallic acid), 205.41 (Tannic acid), 210 (Caffeic acid) $\mu g/ml$; 74.16 (Br.extr), 9.98 (Aq.extr), 54.08 (Hèx.extr), 8.64 (Ac.extr), 30.49 (Ch.extr) mg/ml .

Keywords : *Rhamnus alaternus* L., flavonoids, antioxydant activity, Tessala

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