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Phytochemical study and antioxidant activity of some anti-diabetic plants in the Wilaya of Mascara

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An ethnobotanical survey of 40 individuals in the Wilaya of Mascara identified 40 medicinal plants used for the treatment of diabetes mellitus. Among these plants, *Malva sylvestris, olea europaea sylvestris, Citrus aurantium* have been selected. The objective of our work is the phytochemical study and the antioxidant activity of the three plants selected. The raw methanolic extracts of *Malva sylvestris* and their stems, *olea europaea sylvestris* and *Citrus aurantium* were obtained by the extraction method: maceration. The quantitative determination of total polyphenols by the Folin–Ciocalteu method and the flavonoids in the presence of AlCl3, the total polyphenol content in *Malva sylvestris* and their stems, *olea europaea sylvestris* and their stems, *olea europaea sylvestris* and *Citrus aurantium* represents 556.33 µg EAG/g MS and 443.33 ug EAG/G Ms; 557.66 gEAG/g Ms 447.77 µgEAG/gMS. The content of flavonoids is 1032.33 µg EQer/g Ms 898.66 ug EQer/g Ms 894.33, µg EQer/g Ms 1428.33 µgEQer/g MS. Antioxidant activity of the extracts prepared was measured by two methods. The first is the use of free radical 1,1-diphenyl-2-picrylhydrazyl (DPPH) and the second is reducing power of FRAP iron. These methods show that these plants have good antioxidant activity.

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