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Physico-Chemical Characterization of the Essential Oil of Daucus carota

Authors : Nassima Behidj-Benyounes, Thoraya Dahmene, Khaled Benyounes Nadjiba Chebouti1and F/Zohra Bissaad

Abstract : Essential oils have a significant antimicrobial activity. These oils can successfully replace the antibiotics. So, the microorganisms show their inefficiencies resistant for the antibiotics. For this reason, we study the physicochemical analysis and antimicrobial activity of the essential oil of Daucus carota. The extraction is done by steam distillation of water which brought us a very significant return of 4.65%. The analysis of the essential oil is performed by GC/MS and has allowed us to identify 32 compounds in the oil of D. carota flowering tops of Bouira. Three of which are in the majority are the α-pinene (22.3%), the carotol (21.7%) and the limonene (15.8%).

Keywords : Daucus carota, essential oil, α-pinene, carotol, limonene
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