

VOLATILE CONSTITUENTS AND ANTIMICROBIAL ACTIVITY OF *AMMODAUCUS LEUCOTRICUS*

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ABSTRACT:

Ammodaucus belongs to the family *Apiaceae* (Umbelliferae), subfamily *Apioideae*, trib *Caucalideae*, and comprises one species in Algeria.

In this work the biological importance of members of this genus promoted us to investigate the fruits of *Ammodaucus leucotricus* Coss. et Dur, previously not investigated. The present work presents the chemical composition and antibacterial activities of the hydro distilled oils. Volatile components of the fruits of *Ammodaucus leucotricus* Coss. et Dur. have been studied by gas chromatography-mass spectrometry to afford 14 component, the major components were found to be, 1-cyclohexene-1-carboxaldehyde (56.40%), D-Limonene(28.82%), 2-pentanone-4-hydroxy-4-methyl(5.73%).

The antimicrobial activities of the volatil oils were evaluated by disc diffusion method and tested against Gram-positive and Gram-negative bacteria. The volatil oil showed a strong antibacterial activity against *Staphylococcus aureus*, *Escherichia coli* and *Klebsiella pneumonia*.

KEY WORDS: *Ammodaucus leucotricus* Coss. et Dur, volatile oil, antimicrobial activity