

Analyzing Antimicrobial Power of *Cotula cinerea* Essential Oil: Case of Western Algeria

Authors : A. Abdenbi, B. Dennai, B. Touati, M. Bouaaza, A. Saad

Abstract : The essential oils of many plants have become popular in recent years and their bioactive principles have recently won several industry sectors, however their use as antibacterial and anti fungal agents has been reported. This study focuses on the physico chemical and phyto chemical with a study of the antimicrobial activity of essential oils of aromatic and medicinal plant of southwest Algeria, this essential oil was obtained by hydro-distillation of aerial parts of *Cotula cinerea*, belonging to the Asteraceae family, it is very extensive in the spring season in a region called Kenadza road, located 12km from Bechar. Variable anti fungal activity of the essential oil of *Cotula cinerea* (yield 2%) were revealed about four fungal strains, the minimum inhibitory concentrations of essential oils were determined by the method of dilution in agar. Significant fungal sensitivity of *Penicillium* sp with an inhibition of 32.3 mm area.

Keywords : *Cotula cinerea*, essential oil, physico- chemical analysis and phyto- chemical, anti fungal power

Conference Title : ICMCE 2015 : International Conference on Materials and Chemical Engineering

Conference Location : Jeddah, Saudi Arabia

Conference Dates : January 26-27, 2015