

## Antioxidant and antibacterial activities of *Thymus numidicus* and *Salvia officinalis* essential oils alone or in combination

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Description :

Combinations between antibiotics and other antimicrobial substances such as plant essential oils represent one of the most promising advances against drug-resistant microorganisms. The aim of this study was to evaluate, by the microdilution method, the antibacterial effects of different combinations of two essential oils with their major components or antibiotics (cephalosporines) against *Staphylococcus aureus*, *Escherichia coli*, *Serratia marcescens*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* and the antioxidant effect of the same essential oils combined with thymol or DL- $\alpha$ -tocopherol against DPPH free radical. Two aromatic plants widely growing in north Algeria, *Thymus numidicus* (Poiret) and *Salvia officinalis* (Linné), were investigated. Essential oils were extracted from these plants through hydrodistillation method. Extraction yields were evaluated at 1.83% for *T. numidicus* (Poiret) and 0.97% for *S*

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