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Der Pharmacia Lettre

Abstract

[Antibacterial and antifungal evaluation of synthesized](#)

9,12-octadecadienoic acid derivatives

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In this study of 9,12-octadecadienoic acid, some aliphatic and aromatic esters were synthesized and screened for antimicrobial activity by following tube dilution method against Gram positive bacteria: *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Bacillus subtilis*, Gram negative bacteria: *Escherichia coli*, *Pseudomonas aeruginosa* and two fungal strain: *Candida albicans* and *Aspergillus niger* respectively. Compounds L6 (3-Nitrophenyl octadeca-9,12-dienoate) and L7 (4-Nitrophenyl octadeca-9,12-dienoate) were found to be most active compounds against bacterial strains and compound L8 (Benzyl octadeca-9,12-dienoate) emerged as most active antifungal agent among the synthesized derivatives. The structure of all the synthesized compounds was found in agreement with their spectral data.

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