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Synthesis and Antimicrobial Activity of Substituted Coumarin and their Derivative

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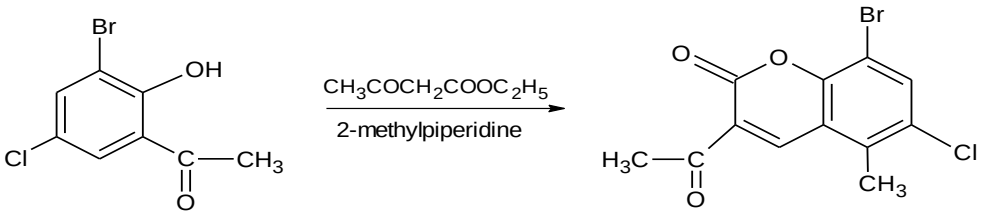
ABSTRACT

Coumarins were prepared by heating of 2-hydroxy substituted acetophenone and 4-chloropheenol with acetoacetic ester in presence of catalytic amount of 2-methylpiperidine.Characterisation and structural elucidation were done on the basis of chemical, analytical and spectral analysis. The antibicterial activities of these coumarins were assayed against the test organism E.coli, S.aureus, B.subtilis, P.aeruginosa, B.polymyxa. All bacterial species used in present investigation are plant pathogens. Compounds have been evaluated for their in vitro growth of inhibitory activity against E.coli, S.aureus, B.subtilis, P. aeruginosa, B. polymyxa.

Graphical Abstract:



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Keywords: Synthesis, Antibacterial, Coumarin.