



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.15, pp 126-134, 2017

Synthesis of New coumarin substituted chromone with reference to their Anti-bacterial efficacy and fluorescence properties

*Pankaj S. Chaudhari, Shrikant S. Patil

Babasaheb Naik College of Engineering, Pusad Dist-Yavatmal-445204 (MH), India

Abstract : The novel series of coumarin substituted chromone are important building block in organic chemistry and used as valuable synthetic intermediates in the preparation of new biological relevant heterocyclic system have been synthesized by using effective and efficient synthetic pathway. The synthesized derivatives have been characterized by FTIR, ¹HNMR and UV spectroscopy for their structural elucidation. These coumarin substituted were evaluated for their antibacterial activity against different pathogenic bacteria such as *salmonella typhi*, *Protenus vulgaris*, *Staphylococcus aureus*, *klebsiella pnemoniae*, *E.schrichia*, *shigella flexneri*. Fluorescent properties of these compounds were also studied.

Keyword : Coumarin substituted chromone, Antibacterial efficacy, Fluorescence properties

Pankaj S. Chaudhari *et al* /International Journal of ChemTech Research, 2017,10(15): 126-134.
