



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.9, No.12, pp 483-494, 2016

Synthesis and Polymerization of Crotonic acid – co-Proflavin and substituted with different acid anhydride

Faris H. Mohammed^{1*}, Sana H.Awad, SanaA.Saheb

Department of chemistry- College Science / University of Babylon-Hilla-Iraq Bagdad
University - Department of chemistry-college science for women-Bagdad-Iraq

Abstract : Series of N- substituted poly crotonic acid (A1-A5) were prepared in satisfactory yields by reaction of polycrotonic acid (proflavin, phthalic anhydride, citraconicanhydride, methylsuccinic anhydride with The structure of synthesized has been established on the basis of their spectral (FT-IR,1HNMR,). The synthesized compounds were screened for their antibacterial activity against two microorganisms *Staphylococcus aureus*, *Escherichia Coli* they were found to exhibit good to moderate antibacterial activity. Thermal stability of compound was measured by DSC they were found high thermal stability.

Keywords : crotonic acid, proflavin , antibacterial activities.

Faris H. Mohammed *et al* /International Journal of ChemTech Research, 2016,9(12): 483-494.
