## https://www.iasj.net/iasj/download/08bae5d25a11cd40

Synthesis and Characterization of Some New Pyrazoline and Isoxazoline Derivatives as Antibacterial Agents Ali K. Alywee Al-Naseeri Department of Chemistry, College of Education for Women, University of Anbar Email:d.alikareem@yahoo.com Received 3/ 8/2015 Accepted 11 /10 /2015

This work is licensed under a Creative Commons Attribution-NonCommercialNoDerivatives 4.0 International Licens Abstract: In this paper some chalcones (C1-C8) are prepared based on the reaction of one

mole of substituted acetophenone with one mole of substituted benzaldehydes in the presence of (40%) sodium hydroxide as a base. Pyrazolines (P1–P8) are prepared from the reaction of chalcones (C1-C8) with hydrazine hydrate. Isoxazoline (I1-I8) is prepared from the reaction of chalcones (C1-C8) with hydroxyl amine hydrochloride in the presence of (10%) sodium hydroxide as a base. These compounds are characterized by using various physical and spectral methods. The compounds are screened for their in vitro antibacterial activity using grampositive bacteria and gram-negative bacteria. Several derivatives of pyrazolines and isoxazolines are produced well to moderate activities against number of bacteria. Key words: Chalcones, Pyrazolines, Isoxazolines, Antibacterial.