

## SYNTHESIS AND CHARACTERIZATION OF SOME NEW SUBSTITUTED FLAGYLE DERIVATIVES

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### ABSTRACT

This work is including synthesis of several new Schiff bases and  $\beta$ -lactams by reacting of metronidazole with ethylchloro acetate to give ester which has been converted to amine by treatment with hydrazine hydrate. Schiff bases have been synthesized by treatment of amine with different aldehyde,  $\beta$  lactam have been synthesized by treatment the last with chloroacetylchloride. The synthesis compound have been characterized by FT-IR,  $^1\text{H-NMR}$ , and  $^{13}\text{C-NMR}$ .

**KEYWORDS:** Metronidazole, Ethyl Chloro Acetate, Schiff base,  $\beta$ -lactam