

## STUDY OF BIOLOGICAL ACTIVITY OF (CIPROPHLAXINE DRUGS AND MEFENAMIC ACID) –DERIVATIVES

SAHERMAHMOOD JWAD<sup>1</sup>, NAGHAM MAHMOOD ALJAMALI<sup>2</sup>&ZINAH HUSSEIN ALI<sup>3</sup>

<sup>1</sup>Department of Biology, Education Facultyfor Girls, Iraq

<sup>2</sup>Department of Chemistry, Education Facultyfor Girls, Iraq

<sup>3</sup>AssistantLecture, Departmentof Pharmaceutical Chemistry, Collegeof Pharmacy,Iraq

### ABSTRACT

In this work, derivatives of ciproflaxine drugs and mefenamic acid were synthesized, tested for antibacterial activity. A new series of ciproflaxine drugs and mefenamic acid derivatives were synthesized via condensation reaction to produce nine derivatives compounds [1-9] are: ciproflaxine derivatives [1-5] and mefenamic derivatives [6-9].

The new drugs derivatives [1-9] have been evaluated for their antimicrobial activity against various gram positive and gram negative bacteria which was comparable to activity of past studies(ciproflaxine andmefenamic). All the newly synthesized drugs derivatives wereidentified byspectro–methodslike (FT.IR- spectra and H.NMR spectra) aschemical indicatorsfor synthesis of new derivatives

**KEYWORDS:**Ciproflaxine,Mefenamic, Antibiotic