



ChemTech

## International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290,

ISSN(Online):2455-9555

Vol.10 No.2, pp692-696,2017

### GC-MS analysis of bioactive compounds in alkaloid extract of leaves of *Catha edulis* and their efficacy against eggs and different larval instars of *Culex pipiens* (Diptera :Culicidae)

ZainabAbd AL-Radaaand ESSamKadoomAbood

Dept of Biology,Universty of Babylon,Collage of Science/ Iraq

**Abstract:**The bioactive alkaloid components of *Catha edulis* leaves have been evaluated using GC-MS and their activity evaluated against the eggs and different larval instars of *Culex pipiens* ,GC/MS analysis of alkaloid extract of *C.edulis* leaves revealed the existence of (33) different compounds which caused mortality was 90% against the eggs of *C.pipiens* and mortality 90% in 20 mg/ml con. against four larval instars this effect make alkaloid extract is alternative natural chemical against *Culex* mosquitoes.

**Keywords:**bioactive compounds,*Catha edulis*,larval instars,*Culex pipiens*,Culicidae

ZainabAbd AL-Radaa *et al*/International Journal of ChemTech Research, 2017,10(2): 692-696.

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