عنوان مقاله:

The efficiency of silver nanoparticles synthesized by Oily Extracts of Eucalyptus camaldulensis against Oryzaephilus surinamensis

محل انتشار:

کنگره توسعه همکاری های علمی منطقه ای علوم صنایع غذایی و کشاورزی (سال: 1397)

تعداد صفحات اصل مقاله: 1

نویسنده:

Sarah Ibrahim Mahmood - *Sciences of College, University of Al Mustansiryia, Iraq, Baghdad*

خلاصه مقاله:

This study aimed to the evaluation of the efficacy of silver nanoparticles synthesized by Oily Extracts of Eucalyptus camaldulensis as an alternative to the use of pesticides against Oryzaephilus surinamensis which is one of the most important store pests that cause great economic losses. The extract that used at 10, 20 and 30µg/ml concentration. Essential oil of Eucalyptus camaldulensis establish silver nanoparticle synthesis (EOEc-AgNPs) were studied on the basis of UV spectroscopy. The current study included the following some stages :(eggs , second larval and adult at age 24h) Results showed the efficacy of the extract EOEsc-AgNPs against Oryzaephilus surinamensis This effect was increased by increased concentration. The highest percentage mortality of eggs gave 82 % at 30µg/ml and decline to 68% at 10µg/ml While control treatment did not record any mortality percentage of eggs. Also, the highest mortality rate for second larvae was 77.2% at 30µg/ml and decreased to 57.3% at 10µg/ml, while there were no mortality recorded at control treatment . with regard to control of adults the highest percentage killing was 66.2% at .30µg/ml and gave 47% at 10µg/ml compared with control test there where no recorded any mortality

کلمات کلیدی:

Eucalyptus camaldulensis , Oryzaephilus surinamensis, EOEc-AgNPs