

DIAGNOSTIC OF WIREWORM THAT ATTACK POTATO TUBERS BY USING PCR .

Redha S. AL – Jorany*

Feryal H. Sadik

*Dept. of Plant Protection - College of Agriculture - University of Baghdad -IRAQ

ABSTRACT

Field studies were carried out in the middle of Iraq during 2009 - 2012 to detect and identify the species of genus *Agriotes* spp that infest Potato tubers (*Solanum tubersum* L.) by using Molecular diagnosis Polymerase Chain Reaction (PCR) for both adults and larvae . The results showed that there are five species of *Agriotes* infest Potato tubers in Spring and Autumn cultivation . These species are :

Agriotes brevis (Candeze) , *Agriotes lineatus*(Linnaeus)

Agriotes obscurus (Linnaeus) , *Agriotes sputator*(Linnaeus)

Agriotes ustulatus (Schaller).

A genetic diversity within the species of the genus *Agriotes* was found .

Key words : *Agriotes* , RAPD , ISSR , Wireworms , Elateridea , Polymerase Chain Reaction
Part of Ph.D. Thesis for second author .