

Study of Pathogenicity and Characterization of *Fusarium oxysporum* f.sp. albedinis by Isozymes Systemes

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Abstract : The characteristics of *Fusarium oxysporium* f.sp. *albedinis* (Foa) isolates were investigated using electrophoretic studies of isozymes systems (esterase and phosphatase). All the (F.o.a) isolates were pathogenic to the date palm seedlings cultivar Deglet Nour, but they did not induce any disease symptoms on control plants. *Fusarium* sp. isolated from soil did not show aggression against these seedlings. The isoenzymes profiles revealed polymorphic bands. The data were subjected to analysis with the JMP method. The isolates were delineated into two main groups A and B which were divided into sub-groups. 19 isolates create the group A, and four isolates (E1, E2, E3 and M15A) formed the group B. Analysis of isozyme banding patterns was found to be a reliable marker technology, efficient, and effective tools to find the genetic variability among isolates isolated in different geographical areas.

Keywords : genetic diversity, *Fusarium oxysporium* f. sp. *albedinis*, isozyme analysis, pathogenicity

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