

Dedication

To my Parents ...

Brothers...

Sisters... &

for all my love....

Acknowledgment

Thank above all to Allah who offered me health to do this work.

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ABSTRACT

Seed health testing for two cultivars of sorghum bicolor namely Tabat and Wad Ahmed was carried out according to the international Rules of Seed Testing Association (ISTA 1966).

The most important isolated fungi were *Drechslera hawaiiensis*, *Drechslera* sp. *Fusarium moniliforme*, *F. solanic*, *F. oxysporum*, *F. semitectum*, *Alternaria alternate*, *Helminthosporium* spp. and *Marcopomina phaseolina*. Pathogenic propensities for the fungus *D. hawaiiensis* was investigated. It was found pathogenic on its host. Physiological studies revealed that Potato dextrose agar medium was the best. The optimum temperature for the fungus was 30°C.

Tilt and Biofidan fungicides were tested. Tilt was more effective.

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