

Dedication

To my Parents ...

Brothers...

Sisters... &

for all my love....

Acknowledgment

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

The author wishes to express her gratitude to the A/prof. Eltigani Abuelgasim for his guideness close supervision, and great effort she has paid during this study.

I'm also indebted to Dr. Sohair Ahmed Abdelwahab for great help in identification of different fungi.

I'm also thankful to Mrs. Awatif Mohammed Ibrahim, the director of plant pathology lab, (Crop Protection Department) for the facilities she has offered.

Special thank to my big brother (Tageldean Hassan Salih) who gave me great help and encouragement.

Thanks to all colleagues and friends who participated in this work.

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 *Marcophomina 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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