

**SUDAN UNIVERSITY  
FOR  
SCIENCE AND TECHNOLOGY  
Collage of gadruate studies**

**EFFECTS  
OF ADDITION OF GARLIC (*ALLIUM SATIVUM*) AND\OR  
BLACK SEED (*Nigella Sativa* )  
IN BROILERS FEED ON H HEALTH, PERFORMANCE,  
MEAT PRODUCTION AND SOME BLOOD  
PARAMETERS**

**BY**

**AHMED KHABEIR AHMED  
B.V.Sc., M.SC. Univ. of Khartoum**

**A THESIS**

**SUBMITTED IN PARTIAL FULFILMENT FOR THE  
REQUIRMENT OF THE Ph.D DEGREE IN ANIMAL  
PRODUCTION**

**Faculty of Veterinary Science  
Department of Animal Production**

**Supervisor : professor Dr. E.S.E. Gaili  
Co-supervisor: Associate professor Dr. Osama El-sheikh  
JUN. 2006**

**EFFECTS  
OF INCLUDING GARLIC (*ALLIUM SATIVUM*) AND/OR  
BLACK SEED (*Nigella Sativa*)  
IN BROILERS FEED ON HEALTH, PERFORMANCE,  
CARCASS AND MEAT QUALITY AND SOME BLOOD  
PARAMETERS**

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**AHMED KHABEIR AHMED  
B.V.Sc., M.SC. (Khartoum Univers)**

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