

Thesis

**ANTIBIOTIC SENSITIVITY TEST FOR
SALMONELLA SP. ON DUCK'S FARM IN JOMBANG
EAST JAVA**



By

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**FACULTY OF VETERINARY MEDICINE
UNIVERSITAS AIRLANGGA
SURABAYA
2022**

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Thesis

Submitted in partial fulfilment of the requirement for degree of
Bachelor of Veterinary Medicine
at
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Approval of
Supervisor Committee,



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Hereby, I declare that in this thesis entitled:

**ANTIBIOTIC SENSITIVITY TEST FOR
SALMONELLA SP. ON DUCK'S FARM IN
JOMBANGEAST JAVA**

there is no other work ever published to obtain a college degree in a certain college and according to my knowledge there is also no work or opinion ever written or published by others, except those in writing referred to this paper and mentioned in the references.

Surabaya, 1st of August 2022



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SUMMARY

**Ihab Aiman Nabil. ANTIBIOTIC SENSITIVITY TEST FOR
SALMONELLA SP. ON DUCK'S FARM IN JOMBANG EAST JAVA.**

This research aimed to determine whether there are Salmonella bacteria that are Sensitive to antibiotics and that are multidrug resistant to antibiotics in Ducks at Jombang district.

203 sample of duck's cloacal swab incubated in Buffered Peptone Water (PreEnrichment Medium), Selenite Cystine Broth (Selective Enrichment Medium), Xylose Lysine Deoxycholate (Selective and Differential Medium), Triple Sugar Iron Agar (Biochemical Testing Typical Colonies)

From 203 sample there are 107 sample identified as salmonella sp, 32 sample of salmonella then getting tested by antibiotic sensitivity test and showed that the 32 samples of Salmonella sp isolates were resistant to Chloramphenicol by 15.625% to Gentamicin 6.25 % to cefotaxime to 6.25 % and to ampicillin to 40.625%. from 32 samples there are 1 sample that Multiple drug resistance

ANTIBIOTIC SENSITIVITY TEST FOR SALMONELLA SP. ON DUCK'S FARM IN JOMBANG EAST JAVA

Ihab Aiman Nabil

ABSTRACT

This study aims to determine there are Salmonella bacteria that are Sensitive to antibiotics and multidrug resistance in Ducks at Ds. Tunggurono and Tembalang sub-district, Jombang district. 203 sample of duck's chloacal swab incubated in Buffered Peptone Water (PreEnrichment Medium), Selenite Cystine Broth (Selective Enrichment Medium), Xylose Lysine Deoxycholate (Selective and Differential Medium), Triple Sugar Iron Agar (Biochemical Testing Typical Colonies). 32 Samples that identified as *Salmonella sp.* Is tested by chloramphenicol, gentamicin, cefotaxime, ampicillin, using *Kirby-Bauer* Disk Diffusion Susceptibility Method. The result show that From 32 samples there are resistant to Chloramphenicol by 15.625% to Gentamicin 6.25 % to cefotaxime to 6.25 % and to ampicillin to 40.625%. and sample number 158.2 is multidrug resistant

Keywords : *Salmonella sp*, Salmonellosis, Duck, *Kirby Bauer*, Antibiotic Sensitive Test

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