

**ISOLATION AND IDENTIFICATION OF *Salmonella sp*
ON DUCK'S FARM IN JOMBANG EAST JAVA**

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ABSTRACT

This study was aimed to identify *Salmonella sp.* on duck's farm. Samples are taken from duck's farm in Jombang. 140 samples of duck's cloacal swab are taken from broiler duck farm in Ds. Tembalang, Jombang, East Java, the rest of 63 samples taken from layer duck's farm in Ds. Tunggurono, Jombang, East Java. Cloacal swab's sample then stored in 15 ml Buffered *Peptone Water* (BPW) and incubated in 37°C for 24 hours. Then, the soaked sample stored in tube consist of *Selenite Cystine Broth* (SCB) and incubated in 37°C for 24 hours. After being incubated, the soaked samples inoculated with ose on *Xylose Lysine Deoxycholate* (XLD) agar and incubated in 37°C for 24 hours. After incubated, all samples taken for biochemical test for further identification with Triple Sugar Iron Agar (TSIA) media. This treatment and test apply to 203 sample from 2 different duck's farm. The result of conventional test to identify *Salmonella sp.* show that 179 (88.17%) samples on XLD agar and 152 (74.87%) samples on TSIA positive for *Salmonella sp.* The result of PCR assay show that 107 (52.70%) samples identified as *Salmonella sp.*

Keywords: *Salmonella sp.*, Salmonellosis, Duck, Polymerase Chain Reaction (PCR)

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