

**ISOLATION AND IDENTIFICATION OF AVIAN INFLUENZA VIRUS  
SUB TYPE H5 FROM CLOACAL SWABS OF DUCKS SOLD IN  
SEPANJANG MARKET SIDOARJO**

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**ABSTRACT**

The aim of this study is to detect the presence of Avian Influenza H5 subtype viruses on ducks sold in Sepanjang live bird market. Samples for virus isolation were taken from ducks by pooling cloacal swabs. One pooled sample contained three individual samples. Swab samples were inoculated in SAN (Specific Antibody Negative) 9-11 days embryoned chicken eggs, then were incubated at 37°C for 5 days. At fifth day, the allantoic fluids from embryoned chicken eggs were harvested, then they were tested using HA test. HA test was positive when hemagglutination of chicken red blood cells was shown. The positive allantoic fluids were continued for HI test. HI test was positive when inhibition of hemagglutination was shown, that was signed by unagglutinated, sedimented erythrocytes on the base of microplate's wells. The result for this study showed that from 100 pooled samples; that came from 300 ducks; there was 18 pooled sample (18%) had Avian Influenza H5 subtype viruses.

**Keyword:** *Avian Influenza*, ducks, HI test, cloacal swab, live bird market