

PENGARUH PEMBERIAN DAUN SAMBILOTO (*Andrographis paniculata*) DAN DAUN KELOR (*Moringa oleifera*) PADA AIR MINUM TERHADAP TITER ANTIBODI AVIAN INFLUENZA DAN NEWCASTLE DISEASE BROILER

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ABSTRAK

Penelitian ini dilakukan untuk menganalisis Pengaruh Pemberian Daun Sambiloto (*Andrographis Paniculata*) dan Daun Kelor (*Moringa Oleifera*) pada Air Minum Terhadap Titer Antibodi AI dan ND Broiler. Penelitian dilakukan di kandang peternakan, laboratorium Politeknik Negeri Lampung dan Balai Penyidikan dan Pengujian Veteriner Lampung yang dilaksanakan pada bulan September 2022 – Februari 2023. Penelitian dilakukan dengan menggunakan 63 ekor broiler dengan tujuh perlakuan dan tiga ulangan. Dosis yang diberikan yaitu, P0= tanpa ekstrak, P1= 5 ml ekstrak sambiloto, P2= 5 ml ekstrak kelor, P3= 5 ml ekstrak sambiloto dan 5 ml ekstrak kelor, P4= 10 ml ekstrak sambiloto, P5= 10 ml ekstrak sambiloto dan 5 ml ekstrak kelor, P6= 10 ml ekstrak sambiloto dan 10 ml ekstrak kelor . Pengambilan sampel darah dilakukan pada umur 7, 11, 19, 26, titik pengambilan sampel dilakukan pada jatung dan pembuluh darah vena. Berdasarkan hasil penelitian menunjukkan bahwa titer antibodi *Avian Influenza* tidak berada pada level protektif $AI < 4 \log 2$. Sedangkan pada titer antibodi *Newcastle Disease* menunjukkan titer paling tinggi $6,5 \log 2$ berada pada level protektif $ND > 4 \log 2$. Dengan dosis pemberian terbaik 10 ml ekstrak sambiloto dan 10 ml ekstrak kelor.

Kata kunci: antibodi, AI, ND, kelor, sambiloto.

**THE EFFECT OF GIVING SAMBILOTO LEAVES
(*Andrographis paniculata*) AND Moringa leaves (*Moringa oleifera*)
ON DRINKING WATER AGAINST AVIAN INFLUENZA AND
NEWCASTLE DISEASE BROILER ANTIBODY TITER**

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ABSTRACT

This study was conducted to analyze the Effect of Sambiloto Leaves (*Andrographis Paniculata*) and Moringa Leaves (*Moringa Oleifera*) on Drinking Water Against AI and ND Broiler Antibody Titers. The research was conducted in livestock cages, laboratories of the Lampung State Polytechnic and the Lampung Veterinary Investigation and Testing Center which were carried out in September 2022 – February 2023. The study was conducted using 63 broilers with seven treatments and three repeats. The doses given are, P0= without extract, P1= 5 ml of sambiloto extract, P2= 5 ml of moringa extract, P3= 5 ml of sambiloto extract and 5 ml of moringa extract, P4= 10 ml of sambiloto extract, P5= 10 ml of sambiloto extract and 5 ml of moringa extract, P6= 10 ml of sambiloto extract and 10 ml of moringa extract. Blood sampling is carried out at the age of 7, 11, 19, 26, sampling points are carried out on the heart and veins. Based on the results showed that the antibody titer of *Avian Influenza* was not at the protective level of $AI < 4 \log 2$. While the Newcastle Disease *antibody titer* showed the highest titer of $6.5 \log 2$ was at the protective level of $ND > 4 \log 2$. With the best dose of 10 ml of sambiloto extract and 10 ml of moringa extract.

Keywords: antibody, AI, ND, moringa, sambiloto.