

PENGARUH PENGGUNAAN TEPUNG ALFALFA (*Medicago sativa* L.) PADA RANSUM TERHADAP PROFIL DARAH ITIK HIBRIDA PEDAGING

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh penggunaan tepung Alfalfa (*Medicago sativa* L.) pada pakan terhadap total eritrosit, total leukosit, kadar hemoglobin, nilai hematokrit, diferensial leukosit, dan rasio H/L itik hibrida pedaging. *Day Old Duck* sebanyak 72 ekor dipelihara selama 42 hari menggunakan kandang panggung. Itik dibagi secara acak menjadi tiga perlakuan. Setiap perlakuan dilakukan pengulangan sebanyak empat kali, setiap pengulangan terdiri dari enam ekor itik hibrida pedaging. Perlakuan dalam penelitian ini adalah penambahan tepung Alfalfa Tropik pada pakan dengan level yang berbeda. Perlakuan yaitu K merupakan pakan self-mixing dengan penggunaan 0% tepung Alfalfa tropik sebagai pakan kontrol, AL4 merupakan pakan self-mixing dengan penggunaan 4% tepung Alfalfa tropik, dan AL8 merupakan pakan self-mixing dengan penggunaan 8% tepung Alfalfa tropik. Pakan diberikan pada umur delapan hari dan disesuaikan dengan kebutuhan itik, sedangkan pemberian air minum dilakukan secara *ad libitum*. Data yang diamati dari penelitian ini adalah profil darah berupa eritrosit, leukosit, kadar hemoglobin, nilai hematokrit, diferensial leukosit dan rasio H/L itik hibrida pedaging. Seluruh data yang diperoleh dianalisis statistik menggunakan ANOVA berdasarkan Rancangan Acak Lengkap Pola Searah dan dilakukan uji lanjut menggunakan *Duncan's Multiple Range Test* (DMRT) untuk data yang berbeda nyata antar perlakuan. Hasil penelitian menunjukkan bahwa penambahan tepung Alfalfa tropik berpengaruh nyata ($P < 0,05$) meningkatkan total eritrosit, total leukosit, kadar heterofil dan rasio H/L, namun tidak berpengaruh nyata ($P > 0,05$) terhadap kadar hemoglobin, nilai hematokrit, kadar eosinofil, basofil, monosit dan limfosit. Dari penelitian tersebut dapat disimpulkan bahwa penggunaan Alfalfa tropik 4% dan 8% meningkatkan total eritrosit, total leukosit, kadar heterofil dan rasio H/L, namun tidak untuk hemoglobin, nilai hematokrit, eosinofil, basofil, monosit dan limfosit.

Kata kunci: Alfalfa, Itik Hibrida Pedaging, Profil Darah Merah, Profil Darah Putih, Rasio H/L

EFFECT OF ALFALFA (*Medicago sativa* L.) MEAL IN DIET ON THE BLOOD PROFILE OF HYBRID DUCKS

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ABSTRACT

This study aims to determine the effect of using Alfalfa meal (*Medicago sativa* L.) in the diet on the total erythrocytes, total leukocytes, hemoglobin level, hematocrit, leukocyte differential, and H/L ratio of hybrid ducks. A total of 72 Day Old Ducks were reared for 42 days using raised cages. The ducks were randomly divided to three treatment. Each treatment was replicated four times, with each replication consisting of six hybrid ducks. The treatments involved the addition of tropical Alfalfa meal in the diet at different levels. Treatment K represented a self-mixing feed with 0% tropical Alfalfa meal as the control, treatment AL4 represented a self-mixing feed with 4% tropical Alfalfa meal, and treatment AL8 represented a self-mixing feed with 8% tropical Alfalfa meal. The feed was provided at eight days of age and adjusted according to the ducks' requirements, while water was provided ad libitum. The data observed in this study included blood profiles such as erythrocyte count, leukocyte count, hemoglobin level, hematocrit value, leukocyte differential, and H/L ratio of hybrid ducks. All data obtained were statistically analyzed using one-way analysis of variance (ANOVA) based on a Completely Randomized Design in a One-Way Pattern, and further analysis was conducted using Duncan's Multiple Range Test (DMRT) to determine significant differences among treatments. The results of the study showed that the addition of tropical Alfalfa meal significantly increased the total erythrocytes, total leukocytes, heterophil count, and H/L ratio ($P < 0.05$), but had no significant effect ($P > 0.05$) on the hemoglobin level, hematocrit value, eosinophil, basophil, monocyte, and lymphocyte. In conclusion, the use of 4% and 8% tropical Alfalfa flour increased the total erythrocytes, total leukocytes, heterophil count, and H/L ratio, but had no effect on the hemoglobin level, hematocrit value, eosinophil count, basophil, monocyte, and lymphocyte in hybrid ducks.

Keywords : Alfalfa Meal, Hybrid Broiler Ducks, Red Blood Profile, White Blood Profile, H/L Rasio