

Digestive Tract Development of Crossbred Native Chicken due to Effect of Terminalia catappa Leaf Extract in Drinking Water

Binti Ma'rifah, Edjeng Suprijatna, Luthfi Djauhari Mahfudz, Rina Muryani, Teysar Adi Sarjana, Sri Kismiati, Dwi Sunarti

Animal Production Laboratory, Animal Science Department, Faculty of Animal and Agricultural Sciences, Universitas Diponegoro, Semarang

*Corresponding author: marifahbinti2908@gmail.com

Abstract

The present study was aimed to clarify the effect of Terminalia catappa extract in drinking water to digestive tract development of Crossbreed-native chicken. The research was arranged in completely randomized design with 4 treatment and 4 replications (5 bird each). Drinking water without Terminalia catappa extract (T0); Drinking water with 2% of Terminalia catappa ekstrak for 3 days in a week (T1); Drinking water with 2% of Terminalia catappa ekstrak for 5 days in a week (T2); Drinking water with 2% of Terminalia catappa ekstrak for 7 days in a week (T3). Parameters observed are relative weight of digestive organs, length of digestive organs, and weight to length ratio of digestive organs. Results show that Terminalia catappa extract in drinking water have a significant effect in weight to length ratio of duodenum but has no effect in the other digestive organ. The use of Terminalia catappa leaf extract have a potential effect to maintain digestive tract development.

Keywords : Terminalia catappa, Crossbred Native Chicken, Digestive Tract