COMBINATION EFFECT OF CINNAMON (Cinnamomum burmanii) AND GINGER (Zingiber officinale) AS FEED SUPPLEMENT ON BROILER PERFORMANCE

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ABSTRACT

This study aims to determine the effect of cinnamon and ginger powder combination as feed supplement toward broiler feed consumption, body weight gain, and feed conversion ratio. The experiment was conducted at animal laboratory Veterinary medicine of Airlangga University. A total of 25 broiler chicks strain Indian River, were randomly divided into 5 groups of five chicks each in separate cages. T0 : Control, 100% basal diet. T1 : 99.1% Basal diet + 0.4% Ginger powder + 0.5% Cinnamon powder. T2 : 98.6% Basal diet + 0.4% Ginger powder + 1% Cinnamon powder. T3 : 98.9% Basal diet + 0.6% Ginger powder + 0.5% Cinnamon powder. T4 : 98.4% Basal diet + 0.6% Ginger powder + 1% Cinnamon powder. The results show that cinnamon and ginger can improve the performance of broilers. The addition of 0.6% Ginger powder + 0.5% Cinnamon powder (T3) as feed supplement in broiler diet can increase the performance of broiler chicken. It feed consumption is as good as the control treatment. It also increased the body weight gain and lowered the feed conversion ratio significantly.

Keyword : Cinnamomum burmanii, Zingiber officinale, Performance, Broiler