

***The Effect of Edamame Shell Waste (*Glycine max* L. Merrill) Boiled Water Addition to Vitachick Replacement Drinking Water on Performance Broiler Chicken Starter Phase***

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**ABSTRACT**

*The purpose of this study was to determine the effect of adding edamame shell waste (ARE) to drinking water on the performance of broiler chickens in the starter phase.*

*This study used 72 Cobb 500 chickens divided into 3 treatments and 12 replicates with 2 broilers per replicate. The method used was a completely randomized design (CRD) consisting of P0 = control, P1 = drinking water with the addition of vitachik according to the dose, P2 = drinking water with the addition of 5% boiled water from edamame shell waste. Parameters observed included ration consumption, drinking water consumption, body weight gain, and ration conversion. Data from the experiment were analyzed by ANOVA (Analysis of Variance) test, if significantly different, followed by Duncan Multiple Range Test (DMRT). The results showed that the addition of boiled water from edamame shell waste with a concentration of 5% in drinking water had a significant ( $P < 0.05$ ) effect on body weight gain and ration conversion in broiler chickens and had no significant effect on ration consumption and drinking water consumption in broiler chickens. . The conclusion of this study is that the use of boiled water from edamame shell waste in drinking water with a concentration of 5% through drinking water has a significant effect on increasing body weight gain and reducing the conversion of starter phase broiler rations, so that it has the potential to be used as a substitute for vitachick.*

*Keywords: Broilers Chicken, Starter Phase, Vitachick, Edamame, performance.*