POTENTION OF RICE BRAN WITH PHYTASE ENZYMES IN FORMULA FEED TO INTERNAL EGG QUALITY OF ISA BROWN STRAIN LAYER

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ABSTRACT

The purpose of this study is to know the effect of fermentation rice bran with phytase enzyme to internal egg quality (haugh unit, yellow egg index and colour of egg yolk). Twenty-four laying hens were divided into six groups. The experimental design in this study was Completely Randomized Design. The treatment consisted of formula feed plus rice bran with phytase enzymes with different concentration, P0(-) (formula feed and 0% rice bran phytase enzymes), P0(+) (formula feed, 0% rice bran phytase enzymes and 2% lemuru oil), P1 (formula feed, 5% rice bran phytase enzymes and 2% lemuru oil), P2 (formula feed, 10% rice bran phytase enzymes and 2% lemuru oil), P3 (formula feed, 15% rice bran phytase enzymes and 2% lemuru oil) and P4 (formula feed, 20% rice bran phytase enzymes and 2% lemuru oil). The making of ration is based on isoprotein (18.022%). Respectively showed that there were no significant difference (p>0.05) in haugh units, yellow egg index and colour of egg yolk.

Key words: rice bran, phytase enzyme, haugh unit, egg yolk index, the colour of egg yolk.