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The effect of flavonoid papaya seed (*Carica papaya L*) in the organic feed on egg quality and egg shell of local chicken's hens

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The purpose of this research was to analyze the effect of flavonoid papaya seed (*Carica papaya L*) in the organic feed on egg quality and egg shell of local chicken's hens. This study used 100 local chicken's hens. The research used experimental methods. The design was used in this study was completely randomized design (CRD) with 5 treatments and 5 replications. The treatments in this study consisted of P0: based diet (BD) +0% organic feed with papaya seed (OFPS), P1: Based diet (BD) 99.5%+0.5% (OFPS), P2: BD 99%+1% (OFPS), P3: BD 98%+2% (OFPS), P4: BD 97.5+2.5% (OFPS). The variables measured were egg weight (g/egg), egg albumen weight (g/egg), egg yolk, egg yolk weight (g/egg), egg shell thickness (mm), egg protein (%), egg fat (%), egg cholesterol (mg/100g), egg shell calcium (%) and egg shell phosphor (%) contents of local chicken's hens. The data was analyzed by analysis of variance (ANOVA), when there was a significant effect, further tested by Least Significant Difference (LCD). Based on the research, it can be concluded the effect of flavonoid papaya seeds in the organic feed on egg quality and egg shell of local chickens hens as much as 0.5–2.5 percent have significant effect ($P < 0.01$) on the egg weight, egg albumen, egg yolk, egg yolk weight, egg shell weight, egg shell thickness, egg protein, egg fat, egg cholesterol, egg shell calcium, egg shell phosphor content of local chickens hens. It can be that the use of OFPS in diet up to 2.5% could improve egg quality and egg shell of local chicken's hens.

Biography

Jein Rinny Leke has graduated from Faculty of Animal Husbandry Sam Ratulangi University, Manado, North Sulawesi, Indonesia (Degree Ir). In 1995, she has done Masters in Production of Animal Husbandry Studies Program, Faculty of Post Graduate Padjajaran University, Bandung, West Java, Indonesia (MP Degree). In 2010, she has got Doctorate in Production of Animal Husbandry Study Program, Faculty of Post Graduate Brawijaya University, Malang, East Java, Indonesia (Doctorate Degree). Since 1994 she is working as a Lecturer at the Faculty of Animal Husbandry Sam Ratulangi University Manado, Indonesia.

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