

**FEEDING OF RUMEN CONTENT MEAL WHICH IS FERMENTED BY
PROBIOTIC AND ADDED WITH *SPIRULINA SP* TOWARDS EGG
QUALITY OF LAYING CHICKEN**

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ABSTRACT

This research was to know the influence feeding of rumen content meal which is fermented by probiotic and added with *Spirulina sp* towards egg quality of layer chicken. This research used 25 laying hens which are 20 weeks old as the material. The treatment used in this research was the feeding of rumen content to the level of 5 %, 10% and 15% and addition of *Spirulina sp* as much as 1 % of the total amount of feed. The method was using Completely Randomized study uses a completely randomized design with 5 treatments consisting of 5 replicates. The data was analyzed by Analysis of Variance (ANOVA) and continued with Duncan multiple range test. The results showed gave not significant ($p>0.05$) effect on Haugh Unit (HU), egg white index, egg yolk index and egg weight, while for the color of egg yolk affected significantly ($p<0.05$). The conclusion of this study is the feeding of rumen content meal which is fermented by probiotic and added with *Spirulina sp* on feed can maintain egg quality and addition of 1% *Spirulina sp* on feed consumption can result optimal of egg yolk color.

Key words : rumen content, *Spirulina sp*, laying chicken, egg quality.