

**PENGARUH PENAMBAHAN MAKROALGA LAUT
(*Eucheuma spinosum*) PADA PAKAN KOMERSIAL
TERHADAP KUALITAS KIMIA TELUR PUYUH
(*Coturnix coturnix japonica*)**

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INTISARI

Kualitas telur dipengaruhi oleh kandungan nutrisi dalam pakan ternak. Makroalga laut *Eucheuma spinosum* memiliki kandungan nutrisi yang penting dalam proses peningkatan kualitas telur. Penelitian ini bertujuan untuk mengetahui pengaruh penambahan makroalga laut *E. spinosum* pada pakan komersial terhadap kualitas kimia telur puyuh. Penelitian dilakukan menggunakan 125 ekor puyuh jepang betina (*Coturnix coturnix japonica*) berumur 42 hari yang dibagi dalam 5 kelompok perlakuan. Setiap kelompok perlakuan terdiri atas 5 ulangan dan setiap ulangan terdiri dari 5 ekor puyuh. Perlakuan yang diberikan yaitu P0/kontrol: 95% pakan komersial + 5% *filler*, P1: 95% pakan komersial + 3% *filler* + 2% tepung *E. spinosum*, P2: 95% pakan komersial + 2% *filler* + 3% tepung *E. spinosum*, P3: 95% pakan komersial + 1% *filler* + 4% tepung *E. spinosum*, P4: 95% pakan komersial + 5% tepung *E. spinosum*. Data variabel kualitas kimia telur yang diamati meliputi kadar air, abu, protein, lemak, ETN, dan kolesterol telur puyuh. Data yang diperoleh selanjutnya dianalisis menggunakan rancangan acak lengkap pola searah dengan *software* SPSS. Data dengan perbedaan yang nyata diuji lanjut menggunakan *Duncan's New Multiple Range Test* (DMRT). Berdasarkan hasil penelitian dapat disimpulkan bahwa penambahan makroalga laut *Eucheuma spinosum* pada pakan komersial sampai pada level 5% mampu meningkatkan kualitas kimia telur puyuh, khususnya dalam menurunkan kolesterol telur puyuh.

Kata kunci: Puyuh, *Eucheuma spinosum*, Kualitas Kimia Telur

**THE EFFECT OF ADDITION MARINE MACROALGA
(*Eucheuma spinosum*) TO COMMERCIAL FEED
ON THE CHEMICAL QUALITY OF QUAIL EGGS
(*Coturnix coturnix japonica*)**

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ABSTRACT

Egg quality is influenced by the nutrient content of animal feed. Marine macroalgae *Eucheuma spinosum* has an important nutrient content in the process of improving the quality of eggs. This study aims to determine the effect of adding marine macroalgae *E. spinosum* in commercial feed on the chemical quality of quail eggs. The study was conducted using 125 female Japanese quail (*Coturnix coturnix japonica*) aged 42 days which were divided into 5 treatment groups. Each treatment group consisted of 5 replicates and each replicate consisted of 5 quails. The treatments given were P0/control: 95% commercial feed + 5% filler, P1: 95% commercial feed + 3% filler + 2% *E. spinosum* meal, P2: 95% commercial feed + 2% filler + 3% *E. spinosum* meal, P3: 95% commercial feed + 1% filler + 4% *E. spinosum* meal, P4: 95% commercial feed + 5% *E. spinosum* meal. Data on egg chemical quality variables observed included moisture, ash, protein, fat, ETN, and cholesterol content of quail eggs. The data obtained were then analyzed using a randomized complete block design with SPSS software. Data with significant differences were further tested using Duncan's New Multiple Range Test (DMRT). Based on the results of the study, it can be concluded that the addition of marine macroalgae *Eucheuma spinosum* to commercial feed up to a level of 5% can improve the chemical quality of quail eggs, especially in reducing cholesterol of quail eggs.

Key words: Quail, *Eucheuma spinosum*, Egg Chemical Quality