

## **ABSTRACT**

### **EFFECT OF SUPPLEMENTATION SOYBEAN MEAL (SBM) ON CONSUMPTION, RATIONS EFFICIENCY, AND MILK PRODUCTION DAIRY GOAT**

by

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This study aims to determine the best supplementation of Soybean Meal on consumption, ration efficiency, and milk production of dairy goats. This research was conducted in July-August 2021, located at Telaga Rizky Farm, Yosodadi Village, East Metro District, Metro City, Lampung Province. The analysis of the ration samples was carried out at the Nutrition and Animal Feed Laboratory, Department of Animal Husbandry, Faculty of Agriculture, University Lampung. The experimental design used was a Randomized Block Design (RBD) with 4 treatments and 3 replications. The treatments given were basal ration (P0), basal ration with 5% Soybean Meal (P1) supplementation, basal ration with 10% Soybean Meal (P2) supplementation, and basal ration with 15% Soybean Meal (P3) supplementation. The data obtained were analyzed using analysis of variance with a significance level of 5%. The results showed that supplementation with Soybean Meal had no significant effect on ration efficiency and milk production ( $P>0.05$ ) but had a significant effect on dairy goat ration consumption ( $P<0.05$ ).

**Kata Kunci:** Dairy Goats, Milk Production, Ration Consumption, Ration Efficiency, and Soybean Meal Supplementation.

## ABSTRAK

### PENGARUH SUPLEMENTASI *SOYBEAN MEAL* (SBM) TERHADAP KONSUMSI, EFESIENSI RANSUM, DAN PRODUKSI SUSU KAMBING PERAH

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Penelitian ini bertujuan untuk mengetahui suplementasi terbaik pemberian *Soybean Meal* terhadap konsumsi, efisiensi ransum, dan produksi susu kambing perah. Penelitian ini dilaksanakan pada bulan Juli-Agustus 2021 yang berlokasi di Telaga Rizky Farm, Kelurahan Yosodadi, Kecamatan Metro Timur, Kota Metro, Provinsi Lampung. Analisis sampel ransum dilakukan di Laboratorium Nutrisi dan Makanan Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Rancangan percobaan yang digunakan adalah Rancangan Acak Kelompok (RAK) dengan 4 perlakuan dan 3 ulangan. Perlakuan yang diberikan yaitu ransum basal (P0), ransum basal dengan suplementasi 5% *Soybean Meal* (P1), ransum basal dengan suplementasi 10% *Soybean Meal* (P2), dan ransum basal dengan suplementasi 15% *Soybean Meal* (P3). Data yang diperoleh dianalisis menggunakan analisis ragam dengan taraf nyata 5%. Hasil penelitian didapatkan pemberian suplementasi *Soybean Meal* tidak berpengaruh nyata terhadap efisiensi ransum dan produksi susu ( $P > 0,05$ ) tetapi berpengaruh nyata terhadap konsumsi ransum kambing perah ( $P < 0,05$ ).

**Kata Kunci:** Efisiensi Ransum, Kambing Perah, Konsumsi Ransum, Produksi Susu dan Suplementasi *Soybean Meal*.