

## ABSTRAK

### KUALITAS FISIK SUSU KAMBING PERAH YANG DISUPLEMENTASI DENGAN *SOYBEAN MEAL*(SBM)

Oleh

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian suplementasi *soybean meal* pada ransum terhadap kualitas fisik yaitu uji berat jenis, pH, reduktase, dan alkohol susu kambing perah. Penelitian ini dilakukan pada Juli sampai Agustus 2021 bertempat di Peternakan Telaga Rizky milik Bapak Setiono Heri Winarko, Kelurahan Yosodadi, Kecamatan Metro Timur, Kota Metro. Sampel yang digunakan yaitu 12 ekor kambing Sapera yang sedang laktasi dan dikelompokkan berdasarkan bobot badan. Penelitian ini menggunakan metode rancangan acak kelompok (RAK) dengan 4 perlakuan dan 3 ulangan yaitu P0 (kontrol), P1 (*soybean meal* 5%), P2 (*soybean meal* 10%), P3 (*soybean meal* 15%). Data yang diperoleh dianalisis dengan analisis sidik ragam (ANARA) dengan hasil penelitian menunjukkan bahwa semua kualitas fisik Berat jenis, pH, alkohol dan reduktase tidak dipengaruhi oleh pemberian *soybean meal*. Dari penelitian didapatkan berat jenis susu 1,0297 g/cm<sup>3</sup>, pH 6,8, waktu reduktase 8,0 jam, dan uji alkohol negatif. Kualitas fisik susu kambing Sapera memiliki kualitas yang baik dan sesuai dengan Standar Nasional Indonesia (2011).

**Kata kunci:** alkohol, berat jenis, pH, reduktase, *soybean meal*

## ABSTRACT

### PHYSICAL QUALITY OF DAILING GOATS SUPPLIED WITH SOYBEAN MEAL (SBM)

By

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The study aims to determine the effect of *soybean meal* supplementation on the ration on physical quality, namely specific gravity, pH, reductase, and dairy goat milk alcohol tests. The research was conducted from July to August 2021 at the Telaga Rizky Ranch owned by Mr. Setiono Heri Winarko, Yosodadi Village, East Metro District, Metro city. The samples used were 12 Sapera goats that were lactating and grouped based on body weight. This study used a randomized block design (RAK) method with 4 treatments and 3 replication, namely P0 (control), P1 (*soybean meal* 5%), P2 (*soybean meal* 10%) and P3 (*soybean meal* 15%). The data obtained were analyzed by analysis of variance (ANAVA) with the result showing that all physical qualities of specific gravity, pH, alcohol, and reductase were not affected by *soybean meal*. From the research, it was found that the specific gravity of milk was 1.097 g/cm<sup>3</sup>, pH 6,8, reductase time 8,0 hours, and the alcohol test was negative. Sapera goat's milk quality is food quality and in accordance with Indonesian national standards (2011).

**Keywords** : alcohol, specific gravity, pH, reductase, *soybean meal*